# Financial Report 2020

AJANO ROBOTICS VENTURES

ALBATROSS-1





# Contents

| Report of Board of  | 4   |
|---|-----|
| Directors' Responsibilities                                       |     |
| Independent Auditor's Report                                      | 5   |
| Financial Statements  | 11  |
| Notes to the Consolidated<br>and Separate Financial<br>Statements | 34  |
| Supplemental Information  | 178 |

Supplemental Information on Petroleum Exploration and Production Activities (Unaudited)

# From We to World

PTTEP has established a Sustainable Development Framework as a way of working. The framework comprises 3 main components of High Performance Organization, Governance, Risk Management and Compliance, and Stakeholder Value Creation. We believe that through performance excellence in these three areas, together with a conscious consideration of all stakeholders' interests will lead to a sustainable society.

## Report of Board of Directors' Responsibilities

The financial statements of PTT Exploration and Production Public Company Limited and subsidiaries being consolidated have been prepared in accordance with Thai Financial Reporting Standards under the Accounting Act B.E. 2543, being those Thai Accounting Standards issued under the Accounting Profession Act B.E. 2547 including interpretations and accounting treatment guidance announced by the Federation of Accounting Professions, as well as the financial reporting requirements of the Securities and Exchange Commission under the Securities and Exchange Act B.E. 2535.

The Company's Board of Directors are responsible for the integrity and objectivity of the financial statements of PTT Exploration and Production Public Company Limited and subsidiaries in providing reasonable assurance that the financial statements truly and fairly present financial position, results of operation and cash flows. The books and records of the Company accurately reflect all transactions to safeguard the Company's assets and the control systems are in place to prevent fraud and irregularity. The financial statements have been prepared by adoption of the appropriate accounting policy which is applied on the consistency basis and in accordance with Thai Financial Reporting Standards. In addition, significant information has been adequately disclosed in the notes to financial statements, in which the independent auditor expresses an opinion on the financial statements of PTT Exploration and Production Public Company Limited and subsidiaries in the auditor's report.

(Signed) (Mr. Krairit Euchukanonchai) Chairman (Signed) (Mr. Phongsthorn Thavisin) Chief Executive Officer

15 February 2021

## Independent Auditor's Report

To the Shareholders of PTT Exploration and Production Public Company Limited

#### My opinion

In my opinion, the consolidated financial statements and the separate financial statements present fairly, in all material respects, the consolidated financial position of PTT Exploration and Production Public Company Limited (the Company) and its subsidiaries (the Group) and the separate financial position of the Company as at 31 December 2020, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRS).

#### What I have audited

The consolidated financial statements and the separate financial statements comprise:

- the consolidated and separate statements of financial position as at 31 December 2020;
- the consolidated and separate statements of income for the year then ended;
- the consolidated and separate statements of comprehensive income for the year then ended;
- the consolidated and separate statements of changes in equity for the year then ended;
- the consolidated and separate statements of cash flows for the year then ended; and
- the notes to the consolidated and separate financial statements, which include significant accounting
  policies and other explanatory information.

#### **Basis for opinion**

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of my report. I am independent of the Group and the Company in accordance with the Code of Ethics for Professional Accountants issued by the Federation of Accounting Professions that are relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.



#### Key audit matters

Key audit matters are those matters that, in my professional judgement, were of most significance in my audit of the consolidated and separate financial statements of the current period. These matters were addressed in the context of my audit of the consolidated and separate financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on these matters.

#### Key audit matter

#### How my audit addressed the key audit matter

# Impairment assessments of goodwill and long-lived assets

As at 31 December 2020, the Group has goodwill net of allowance for impairment of US Dollar 1,903.80 million, long-lived assets comprising property, plant and equipment net with allowance for impairment of US Dollar 9,837.54 million, and exploration and evaluation assets net of allowance for impairment of US Dollar 2,886.22 million. The total net value of these assets represents 65% of the total consolidated assets. During 2020, the Group recognised an impairment loss for property, plant and equipment and the exploration and for evaluation assets in the amount of US Dollar 47.93 million and US Dollar 43.65 million, respectively as disclosed in Note 24. No impairment charge was recognised against the goodwill balance in the 2020 financial year as disclosed in Note 21.

Management tests impairment of goodwill annually and tests impairment of long-lived assets whenever there is an indicator that these assets may be impaired. The impairment test is performed at the level of the cash generating unit (CGU).

The determination of the recoverable amount (the higher of value in use or fair value less costs of disposal) of the CGUs, which are long-lived assets and goodwill, requires management's significant judgement in identifying both the relevant CGUs and assumptions used in the valuation. The assumptions include global oil price trends, estimated petroleum reserves, exploration plans, production plans, cost profiles, growth rate and discount rate applied to the discounted cash flow forecasts.

The management considered the following factors in assessing whether there were any impairment indicators:

- unsuccessful exploration during the year
- the recent significant decrease in global oil prices
- changes to exploration plans, and
- changes to petroleum reserves estimate.

I carried out the following procedures to assess management's impairment testing of goodwill and long-lived assets:

- Evaluated the appropriateness of impairment indicators assessed by the management.
- Evaluated the appropriateness of management's identification of the Group's CGUs and the controls over the impairment assessment process.
- Held discussions with the management to understand the basis of the assumptions used in the estimation of discounted cash flow and assessed whether the impairment testing process and assumptions had been applied consistently across the Group.
- Challenged management's significant assumptions used in impairment testing for goodwill and long-lived assets, specifically global oil price trends, petroleum reserves estimate, exploration plans, production plans, cost profiles, growth rate and discount rate. The procedures included comparing the key assumptions to the external sources and to the approved business plan.
- Assessed the reasonableness of the business plan by comparing the plans of 2020 with actual results.
- Assessed the discount rate by taking into account data from publicly available information for other companies in the industry, obtained independently by the auditor's expert, to see whether the discount rate used by management was within an acceptable range compared with other companies in the industry.
- Tested the sensitivity analysis over key assumptions in the model prepared by the management. This was to assess factors sensitive to assumptions and the potential impact of a range of possible outcomes.

Based on the results of the procedures performed, I determined that the key assumptions used by the management were reasonable and within the acceptable range. They were consistent with supporting evidence.

#### Key audit matter

#### How my audit addressed the key audit matter

I focused on the impairment assessment of these assets due to their significant values and the fact that determining the recoverable amount depends on a number of assumptions and judgements to determine the appropriate level of impairment to be recognised.

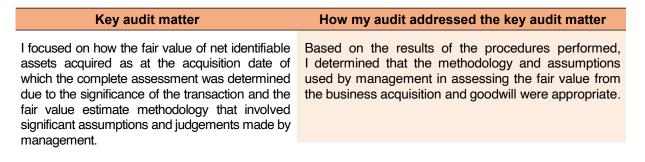
- goodwill of US Dollar 974.56 million arising from the acquisition of the exploration and production business in Southeast Asia and goodwill of US Dollar 725.96 million arising from the acquisition of the exploration and production business in Africa, and
- long-lived assets of US Dollar 12,723.76 million.

# *Fair value estimate from the 2019 business acquisition*

As for the business acquisition of Murphy Oil Corporation in Malaysia on 10 July 2019 as disclosed in Note 38, during 2020, the Group measured the fair value of net identifiable assets acquired, which reflected additional information obtained about the facts and circumstances that existed as of the acquisition date of the business combination. This information affected the fair value of the net identifiable assets and goodwill as reported in the financial statements for the year ending 31 December 2019 which the measurement period did not exceed one year from the acquisition date in accordance with the requirements of Thai Financial Reporting Standard No. 3 (TFRS 3) - Business combinations.

The management assigned geologists and reservoir engineers to assess the estimates of petroleum reserve in the Malaysian assets, using production plan and investment plan as the key assumptions. The Group found that the petroleum reserve estimate was higher than initial assessment as at the acquisition date, resulting in the change in the estimated discounted cash flow. The Group has recognised the addition of the exploration and evaluation assets of US Dollar 240.83 million, deferred income tax liabilities of US Dollar 83.78 million, and the decrease in goodwill of US Dollar 157.05 million. I carried out the following procedures to obtain sufficient evidence for management's determination of the fair value of net identifiable assets acquired as at the acquisition date of which the complete assessment:

- Obtained an understanding of the terms and conditions by reading the complete sale and purchase agreements and all related documents.
- Challenged and assessed management's conclusions against the requirements of the relevant financial reporting standards, which included the determination once control has transferred to the Group.
- Evaluated the competency, qualifications, experience and independence of management's experts.
- Assessed the appropriateness of assumptions used in the estimate of the fair value of net identifiable assets acquired by performing the following procedures:
  - Tested key assumptions applied in the valuation models use for estimating fair value, including comparing cash flow forecasts with the approved project plans and available public information.
  - Assessed the discount rate by taking into account data from publicly available information for other companies in the industry, obtained independently by the auditor's expert, to see whether the discount rate used by management was within an acceptable range compared with other companies in the industry.
  - Considered the valuation methodology in the models against the requirements of the financial reporting standards.
- Tested the mathematical accuracy of the fair value of net identifiable assets acquired and the goodwill from the business acquisitions.



#### Other information

The directors are responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and my auditor's report thereon. The annual report is expected to be made available to me after the date of this auditor's report.

My opinion on the consolidated and separate financial statements does not cover the other information and I will not express any form of assurance conclusion thereon.

In connection with my audit of the consolidated and separate financial statements, my responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

When I read the annual report, if I conclude that there is a material misstatement therein, I am required to communicate the matter to the audit committee.

#### Responsibilities of the directors for the consolidated and separate financial statements

The directors are responsible for the preparation and fair presentation of the consolidated and separate financial statements in accordance with TFRS, and for such internal control as the directors determine is necessary to enable the preparation of consolidated and separate financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated and separate financial statements, the directors are responsible for assessing the Group's and the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

The audit committee assists the directors in discharging their responsibilities for overseeing the Group's and the Company's financial reporting process.

#### Auditor's responsibilities for the audit of the consolidated and separate financial statements

My objectives are to obtain reasonable assurance about whether the consolidated and separate financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated and separate financial statements.

As part of an audit in accordance with TSAs, I exercise professional judgement and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's and the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting
  and, based on the audit evidence obtained, whether a material uncertainty exists related to events
  or conditions that may cast significant doubt on the Group's and the Company's ability to continue
  as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention
  in my auditor's report to the related disclosures in the consolidated and separate financial statements
  or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit
  evidence obtained up to the date of my auditor's report. However, future events or conditions may
  cause the Group and the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

I communicate with the audit committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

I also provide the audit committee with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.

From the matters communicated with the audit committee, I determine those matters that were of most significance in the audit of the consolidated and separate financial statements of the current period and are therefore the key audit matters. I describe these matters in my auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

PricewaterhouseCoopers ABAS Ltd.

Muuy

Amornrat Pearmpoonvatanasuk Certified Public Accountant (Thailand) No. 4599 Bangkok 15 February 2021

# Financial Statements

#### Statement of Financial Position

PTT Exploration and Production Public Company Limited As at 31 December 2020

| nber 2020                            |       | Consolidated financial statements |                 |                 |                 |  |  |
|--------------------------------------|-------|-----------------------------------|-----------------|-----------------|-----------------|--|--|
|                                      |       |                                   | Unit: US Dollar |                 | Unit: Baht      |  |  |
|                                      |       | 31 December                       | 31 December     | 31 December     | 31 December     |  |  |
|                                      | Notes | 2020                              | 2019            | 2020            | 2019            |  |  |
| Assets                               |       |                                   |                 |                 |                 |  |  |
| Current assets                       |       |                                   |                 |                 |                 |  |  |
| Cash and cash equivalents            | 13    | 3,704,002,851                     | 2,822,897,310   | 111,257,372,357 | 85,121,635,618  |  |  |
| Short-term investments               |       | 100,000,000                       | 200,000,000     | 3,003,706,574   | 6,030,799,292   |  |  |
| Trade and other receivables          | 14    | 790,762,914                       | 983,201,092     | 23,752,181,193  | 29,647,436,192  |  |  |
| Inventories                          | 16    | 338,105,414                       | 330,336,327     | 10,155,694,555  | 9,960,960,417   |  |  |
| Current tax assets                   |       | 56,168,105                        | 55,338,391      | 1,687,122,238   | 1,668,672,379   |  |  |
| Derivative assets                    | 9     | 4,361,594                         | 12,342,074      | 131,009,492     | 372,162,847     |  |  |
| Other current financial assets       | 15    | -                                 | 213,702,922     | -               | 6,443,997,154   |  |  |
| Other current assets                 |       | 90,847,346                        | 95,472,046      | 2,728,786,032   | 2,878,863,203   |  |  |
| Total current assets                 |       | 5,084,248,224                     | 4,713,290,162   | 152,715,872,441 | 142,124,527,102 |  |  |
| Non-current assets                   |       |                                   |                 |                 |                 |  |  |
| Investments in associates            | 18    | 216,865,375                       | 227,626,116     | 6,513,999,725   | 6,863,837,299   |  |  |
| Investments in joint ventures        | 18    | 233,344,008                       | 225,370,160     | 7,008,969,316   | 6,795,811,001   |  |  |
| Long-term loans to related parties   | 17    | 74,945,214                        | 86,055,526      | 2,251,134,312   | 2,594,918,018   |  |  |
| Property, plant and equipment        | 19    | 9,837,537,005                     | 10,661,984,455  | 295,490,744,503 | 321,501,441,133 |  |  |
| Right-of-use assets                  | 20    | 482,778,015                       | -               | 14,501,234,962  | -               |  |  |
| Goodwill                             | 21    | 1,903,802,428                     | 1,903,802,428   | 57,184,638,697  | 57,407,251,692  |  |  |
| Intangible assets                    | 22    | 130,453,364                       | 131,976,248     | 3,918,436,272   | 3,979,611,307   |  |  |
| Exploration and evaluation assets    | 23    | 2,886,220,358                     | 2,880,319,108   | 86,693,590,641  | 86,853,134,655  |  |  |
| Deferred tax assets                  | 25    | 1,098,682,102                     | 961,729,427     | 33,001,185,983  | 28,999,985,605  |  |  |
| Rights to receive reimbursement from |       |                                   |                 |                 |                 |  |  |
| decommissioning funds                |       | 265,788,947                       | 237,264,583     | 7,983,520,067   | 7,154,475,393   |  |  |
| Derivative assets                    | 9     | 49,050,856                        | 83,677,515      | 1,473,343,773   | 2,523,211,486   |  |  |
| Other non-current financial assets   |       | 757,344                           | 869,601         | 22,748,396      | 26,221,958      |  |  |
| Other non-current assets             | 26    | 228,972,965                       | 171,316,077     | 6,877,676,016   | 5,165,864,405   |  |  |
| Total non-current assets             |       | 17,409,197,981                    | 17,571,991,244  | 522,921,222,663 | 529,865,763,952 |  |  |
| Total assets                         |       | 22,493,446,205                    | 22,285,281,406  | 675,637,095,104 | 671,990,291,054 |  |  |

(Phongsthorn Thavisin) Chief Executive Officer

(Sermsak Satchawannakul) Senior Vice President, Accounting Division

11

12

#### Statement of Financial Position

PTT Exploration and Production Public Company Limited As at 31 December 2020

|  |       | Consolidated financial statements |                 |                 |                 |  |  |
|--|-------|-----------------------------------|-----------------|-----------------|-----------------|--|--|
|  |       |                                   | Unit: US Dollar |                 | Unit: Baht      |  |  |
|  |       | 31 December                       | 31 December     | 31 December     | 31 December     |  |  |
|  | Notes | 2020                              | 2019            | 2020            | 2019            |  |  |
| Liabilities and equity   |       |                                   |                 |                 |                 |  |  |
| Current liabilities  |       |                                   |                 |                 |                 |  |  |
| Trade and other payables<br>Current portion of lease liabilities due | 27    | 893,694,180                       | 888,925,204     | 26,843,943,805  | 26,804,645,154  |  |  |
| within one year  | 28    | 135,475,131                       | 18,281,361      | 4,069,275,404   | 551,256,111     |  |  |
| Income tax payable   |       | 504,785,221                       | 862,953,072     | 15,162,266,881  | 26,021,483,863  |  |  |
| Short-term provisions  |       | 150,217,767                       | 131,500,284     | 4,512,101,036   | 3,965,259,111   |  |  |
| Derivative liabilities   | 9     | 29,674,906                        | 15,213,837      | 891,347,108     | 458,757,976     |  |  |
| Other current liabilities  |       | 159,073,974                       | 133,969,338     | 4,778,113,730   | 4,039,710,172   |  |  |
| Total current liabilities  |       | 1,872,921,179                     | 2,050,843,096   | 56,257,047,964  | 61,841,112,387  |  |  |
| Non-current liabilities  |       |                                   |                 |                 |                 |  |  |
| Debentures   | 28    | 2,830,374,756                     | 2,704,746,265   | 85,016,152,606  | 81,558,909,291  |  |  |
| Long-term loans  | 28    | 594,659,466                       | 593,261,202     | 17,861,825,474  | 17,889,196,191  |  |  |
| Lease liabilities  | 28    | 371,552,398                       | 125,413,411     | 11,160,343,816  | 3,781,715,550   |  |  |
| Deferred tax liabilities   | 25    | 1,445,792,455                     | 1,442,489,022   | 43,427,363,004  | 43,496,808,866  |  |  |
| Provision for employee benefits                                      | 31    | 265,510,520                       | 245,248,060     | 7,975,139,259   | 7,395,204,113   |  |  |
| Provision for decommissioning costs                                  | 29    | 3,140,384,595                     | 2,967,512,233   | 94,327,938,525  | 89,482,353,377  |  |  |
| Provision for remuneration for                                       |       |                                   |                 |                 |                 |  |  |
| the renewal of petroleum production                                  | 30    | 103,243,295                       | 190,757,774     | 3,101,125,645   | 5,752,109,238   |  |  |
| Derivative liabilities   | 9     | 673,803                           | -               | 20,239,051      | -               |  |  |
| Other non-current liabilities  |       | 69,215,793                        | 123,836,573     | 2,079,039,332   | 3,734,167,589   |  |  |
| Total non-current liabilities  |       | 8,821,407,081                     | 8,393,264,540   | 264,969,166,712 | 253,090,464,215 |  |  |
| Total liabilities  |       | 10,694,328,260                    | 10,444,107,636  | 321,226,214,676 | 314,931,576,602 |  |  |

PTT Exploration and Production Public Company Limited As at 31 December 2020

|                                    |       | Consolidated financial statements |                 |                  |                  |  |
|------------------------------------|-------|-----------------------------------|-----------------|------------------|------------------|--|
|                                    |       |                                   | Unit: US Dollar |                  | Unit: Baht       |  |
|                                    |       | 31 December                       | 31 December     | 31 December      | 31 December      |  |
|                                    | Notes | 2020                              | 2019            | 2020             | 2019             |  |
| Liabilities and equity (continued) |       |                                   |                 |                  |                  |  |
| Equity                             |       |                                   |                 |                  |                  |  |
| Share capital                      |       |                                   |                 |                  |                  |  |
| Authorised share capital           |       |                                   |                 |                  |                  |  |
| 3,969,985,400 ordinary shares      |       |                                   |                 |                  |                  |  |
| of Baht 1 each                     | 32    |                                   |                 | 3,969,985,400    | 3,969,985,400    |  |
| Issued and paid-up share capital   |       |                                   |                 |                  |                  |  |
| 3,969,985,400 ordinary shares      |       |                                   |                 |                  |                  |  |
| of Baht 1 each                     |       | 150,683,762                       | 150,683,762     | 3,969,985,400    | 3,969,985,400    |  |
| Share premium                      |       | 3,439,036,612                     | 3,439,036,612   | 105,417,619,764  | 105,417,619,764  |  |
| Subordinated capital debentures    | 34    | 156,570,483                       | 187,434,503     | 4,981,992,349    | 6,018,033,688    |  |
| Retained earnings                  |       |                                   |                 |                  |                  |  |
| Appropriated                       |       |                                   |                 |                  |                  |  |
| Legal reserve                      |       | 15,048,319                        | 15,048,319      | 396,998,540      | 396,998,540      |  |
| Reserve for expansion              |       | 431,231,212                       | 431,231,212     | 16,900,000,000   | 16,900,000,000   |  |
| Unappropriated                     |       | 7,672,902,320                     | 7,630,675,250   | 248,775,592,669  | 247,150,263,826  |  |
| Other components of equity         |       | (66,354,763)                      | (12,935,888)    | (26,031,308,294) | (22,794,186,766) |  |
| Total equity                       |       | 11,799,117,945                    | 11,841,173,770  | 354,410,880,428  | 357,058,714,452  |  |
| Total liabilities and equity       |       | 22,493,446,205                    | 22,285,281,406  | 675,637,095,104  | 671,990,291,054  |  |

14

#### Statement of Financial Position

PTT Exploration and Production Public Company Limited As at 31 December 2020

|                                     |       | Separate financial statements |                 |                 |                 |  |  |
|-------------------------------------|-------|-------------------------------|-----------------|-----------------|-----------------|--|--|
|                                     |       |                               | Unit: US Dollar |                 | Unit: Baht      |  |  |
|                                     |       | 31 December                   | 31 December     | 31 December     | 31 December     |  |  |
|                                     | Notes | 2020                          | 2019            | 2020            | 2019            |  |  |
| Assets                              |       |                               |                 |                 |                 |  |  |
| Current assets                      |       |                               |                 |                 |                 |  |  |
| Cash and cash equivalents           | 13    | 1,119,258,052                 | 715,768,020     | 33,619,227,696  | 21,583,266,339  |  |  |
| Short-term investments              |       | 100,000,000                   | 200,000,000     | 3,003,706,574   | 6,030,799,292   |  |  |
| Trade and other receivables         | 14    | 466,349,493                   | 716,089,764     | 14,007,770,392  | 21,592,968,207  |  |  |
| Short-term loans to a related party | 17    | 78,316,549                    | 362,000,567     | 2,352,399,330   | 10,915,763,811  |  |  |
| Inventories                         | 16    | 99,553,262                    | 104,057,691     | 2,990,287,874   | 3,137,755,265   |  |  |
| Current tax assets                  |       | 10,678,431                    | 15,036,646      | 320,748,727     | 453,414,956     |  |  |
| Derivative assets                   |       | -                             | 253,020         | -               | 7,629,569       |  |  |
| Other current financial assets      | 9     | -                             | 210,414         | -               | 6,344,815       |  |  |
| Other current assets                | 15    | 39,482,691                    | 63,541,724      | 1,185,944,187   | 1,916,036,937   |  |  |
| Total current assets                |       | 1,913,638,478                 | 2,176,957,846   | 57,480,084,780  | 65,643,979,191  |  |  |
| Non-current assets                  |       |                               |                 |                 |                 |  |  |
| Investments in associates           | 18    | 25,577,427                    | 25,577,427      | 768,270,869     | 771,261,656     |  |  |
| Investments in subsidiaries         | 18    | 1,082,369,085                 | 924,403,328     | 32,511,191,360  | 27,874,454,685  |  |  |
| Long-term loans to related parties  | 17    | 6,795,974,559                 | 6,410,306,980   | 204,131,134,568 | 193,296,373,984 |  |  |
| Property, plant and equipment       | 19    | 2,754,254,495                 | 3,305,867,193   | 82,729,723,323  | 99,685,107,639  |  |  |
| Right-of-use assets                 | 20    | 52,412,190                    | -               | 1,574,308,401   | -               |  |  |
| Goodwill                            | 21    | 75,157,587                    | 75,157,587      | 2,257,513,385   | 2,266,301,616   |  |  |
| Intangible assets                   | 22    | 81,959,613                    | 78,178,825      | 2,461,826,289   | 2,357,404,014   |  |  |
| Deferred tax assets                 | 25    | 769,778,878                   | 639,817,402     | 23,121,898,766  | 19,293,051,670  |  |  |
| Derivative assets                   | 9     | 33,515,790                    | 64,096,092      | 1,006,715,968   | 1,932,753,308   |  |  |
| Other non-current financial assets  |       | 235,472                       | 47,837          | 7,072,896       | 1,442,486       |  |  |
| Other non-current assets            | 26    | 20,725,924                    | 22,976,760      | 622,545,942     | 692,841,119     |  |  |
| Total non-current assets            |       | 11,691,961,020                | 11,546,429,431  | 351,192,201,767 | 348,170,992,177 |  |  |
| Total assets                        |       | 13,605,599,498                | 13,723,387,277  | 408,672,286,547 | 413,814,971,368 |  |  |

PTT Exploration and Production Public Company Limited As at 31 December 2020

|                                      |       | Separate financial statements |                 |                 |                 |  |  |
|--------------------------------------|-------|-------------------------------|-----------------|-----------------|-----------------|--|--|
|                                      |       |                               | Unit: US Dollar |                 | Unit: Baht      |  |  |
|                                      |       | 31 December                   | 31 December     | 31 December     | 31 December     |  |  |
|                                      | Notes | 2020                          | 2019            | 2020            | 2019            |  |  |
| Liabilities and equity               |       |                               |                 |                 |                 |  |  |
|                                      |       |                               |                 |                 |                 |  |  |
| Current liabilities                  |       |                               |                 |                 |                 |  |  |
| Trade and other payables             | 27    | 301,154,664                   | 313,508,831     | 9,045,802,434   | 9,453,544,160   |  |  |
| Current portion of lease liabilities |       |                               |                 |                 |                 |  |  |
| due within one year                  | 28    | 25,616,997                    | 298,557         | 769,459,416     | 9,002,691       |  |  |
| Income tax payable                   |       | 443,603,545                   | 679,934,364     | 13,324,548,860  | 20,502,738,410  |  |  |
| Short-term provisions                |       | 135,433,239                   | 97,890,430      | 4,068,017,105   | 2,951,787,688   |  |  |
| Derivative liabilities               | 9     | 22,655,931                    | 12,026,567      | 680,517,691     | 362,649,045     |  |  |
| Other current liabilities            |       | 34,066,737                    | 53,898,088      | 1,023,264,829   | 1,625,242,763   |  |  |
| Total current liabilities            |       | 962,531,113                   | 1,157,556,837   | 28,911,610,335  | 34,904,964,757  |  |  |
| Non-current liabilities              |       |                               |                 |                 |                 |  |  |
| Debentures                           | 28    | 379,264,083                   | 377,762,214     | 11,391,980,197  | 11,391,040,460  |  |  |
| Lease liabilities                    | 28    | 31,225,314                    | 761,949         | 937,916,805     | 22,975,809      |  |  |
| Provision for employee benefits      | 31    | 188,324,302                   | 179,375,616     | 5,656,709,447   | 5,408,891,691   |  |  |
| Provision for decommissioning costs  | 29    | 1,663,810,040                 | 1,571,621,696   | 49,975,971,536  | 47,390,675,072  |  |  |
| Provision for remuneration for       |       |                               |                 |                 |                 |  |  |
| the renewal of petroleum production  | 30    | 87,568,283                    | 174,922,380     | 2,630,294,279   | 5,274,608,833   |  |  |
| Other non-current liabilities        |       | 29,892,684                    | 28,326,701      | 897,888,511     | 854,163,227     |  |  |
| Total non-current liabilities        |       | 2,380,084,706                 | 2,332,770,556   | 71,490,760,775  | 70,342,355,092  |  |  |
| Total liabilities                    |       | 3,342,615,819                 | 3,490,327,393   | 100,402,371,110 | 105,247,319,849 |  |  |

16

#### Statement of Financial Position

PTT Exploration and Production Public Company Limited As at 31 December 2020

|                                    | Separate financial statements |                 |                  |                  |  |  |
|------------------------------------|-------------------------------|-----------------|------------------|------------------|--|--|
|                                    |                               | Unit: US Dollar |                  | Unit: Baht       |  |  |
|                                    | 31 December                   | 31 December     | 31 December      | 31 December      |  |  |
| Note                               | s 2020                        | 2019            | 2020             | 2019             |  |  |
| Linkilitian and anulty (continued) |                               |                 |                  |                  |  |  |
| Liabilities and equity (continued) |                               |                 |                  |                  |  |  |
| Equity                             |                               |                 |                  |                  |  |  |
| Share capital                      |                               |                 |                  |                  |  |  |
| Authorised share capital           |                               |                 |                  |                  |  |  |
| 3,969,985,400 ordinary shares      |                               |                 |                  |                  |  |  |
| of Baht 1 each 32                  |                               |                 | 3,969,985,400    | 3,969,985,400    |  |  |
| Issued and paid-up share capital   |                               |                 |                  |                  |  |  |
| 3,969,985,400 ordinary shares      |                               |                 |                  |                  |  |  |
| of Baht 1 each                     | 150,683,762                   | 150,683,762     | 3,969,985,400    | 3,969,985,400    |  |  |
| Share premium                      | 3,439,036,612                 | 3,439,036,612   | 105,417,619,764  | 105,417,619,764  |  |  |
| Subordinated capital debentures    | 156,570,483                   | 156,570,483     | 4,981,992,349    | 4,981,992,349    |  |  |
| Retained earnings                  |                               |                 |                  |                  |  |  |
| Appropriated                       |                               |                 |                  |                  |  |  |
| Legal reserve                      | 15,048,319                    | 15,048,319      | 396,998,540      | 396,998,540      |  |  |
| Reserve for expansion              | 431,231,212                   | 431,231,212     | 16,900,000,000   | 16,900,000,000   |  |  |
| Unappropriated                     | 6,067,984,516                 | 6,012,419,398   | 202,151,174,069  | 200,224,792,852  |  |  |
| Other components of equity         | 2,428,775                     | 28,070,098      | (25,547,854,685) | (23,323,737,386) |  |  |
| Total equity                       | 10,262,983,679                | 10,233,059,884  | 308,269,915,437  | 308,567,651,519  |  |  |
| Total liabilities and equity       | 13,605,599,498                | 13,723,387,277  | 408,672,286,547  | 413,814,971,368  |  |  |

#### Statement of Income

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |       | Consolidated financial statements |                 |                  |                  |  |
|--|-------|-----------------------------------|-----------------|------------------|------------------|--|
|  |       |                                   | Unit: US Dollar |                  | Unit: Baht       |  |
|  | Notes | 2020                              | 2019            | 2020             | 2019             |  |
| Revenues   |       |                                   |                 |                  |                  |  |
| Revenue from sales                               |       | 5 043 170 157                     | 6,046,416,158   | 157,505,982,839  | 187,434,256,385  |  |
| Revenue from pipeline transportation             |       | 92,349,680                        | 116,396,137     | 2,894,695,500    | 3,618,478,463    |  |
| Other income                                     |       | 32,343,000                        | 110,550,157     | 2,034,030,000    | 3,010,470,403    |  |
| Gain on foreign exchange rates                   |       | 26,062,266                        | 108,597,530     | 818,411,415      | 3,364,162,379    |  |
| Gain on remeasuring of                           |       | 20,002,200                        | 100,007,000     | 010,411,410      | 0,004,102,070    |  |
| financial instruments                            |       | 99,330,899                        | -               | 3,212,764,944    | _                |  |
| Gain on debt modification                        | 28    | 22,307,226                        | -               | 679,959,369      | -                |  |
| Interest income                                  | 20    | 36,728,927                        | 86,234,821      | 1,150,127,763    | 2,691,774,670    |  |
| Other income                                     |       | 37,011,375                        | 55,390,651      | 1,156,211,729    | 1,713,008,987    |  |
|  |       |                                   |                 | 1,100,211,120    |                  |  |
| Total revenues                                   |       | 5,356,960,530                     | 6,413,035,297   | 167,418,153,559  | 198,821,680,884  |  |
| Expenses   |       |                                   |                 |                  |                  |  |
| Operating expenses                               |       | 795,111,922                       | 750,682,327     | 24,855,923,681   | 23,174,701,610   |  |
| Exploration expenses                             |       | 104,313,775                       |                 | 3,239,216,705    | 3,950,741,535    |  |
| Administrative expenses                          |       | 314,116,740                       |                 | 9,754,164,853    | 11,870,413,978   |  |
| Petroleum royalties                              |       | 410,153,876                       | 546,334,209     | 12,798,161,392   | 16,944,730,977   |  |
| Depreciation, depletion and amortisation         |       | 2,086,082,793                     | 2,026,055,587   | 65,249,767,043   | 62,810,841,149   |  |
| Other expenses                                   |       |                                   |                 |                  |                  |  |
| Loss on remeasuring of                           |       |                                   |                 |                  |                  |  |
| financial instruments                            |       | -                                 | 109,399,724     | -                | 3,405,789,423    |  |
| Impairment loss on assets                        | 24    | 91,576,324                        | -               | 2,806,642,497    | -                |  |
| Other expenses                                   |       | 20,341,034                        | -               | 637,348,260      | -                |  |
| Finance costs                                    |       | 254,476,449                       | 234,978,741     | 7,955,860,492    | 7,290,639,862    |  |
| Total expenses                                   |       | 4,076,172,913                     | 4,179,325,090   | 127,297,084,923  | 129,447,858,534  |  |
| Share of profit of associates and joint ventures | ;     | 41,636,115                        | 12,351,839      | 1,307,225,677    | 380,419,707      |  |
| Profit before income taxes                       |       | 1 300 103 730                     | 2,246,062,046   | 41,428,294,313   | 69,754,242,057   |  |
| Income taxes                                     | 37    | (602,880,218)                     | (676,998,045)   | (18,764,283,327) | (20,951,704,151) |  |
|  | 01    | (002,000,210)                     | (010,000,010)   | <u> </u>         |                  |  |
| Profit for the year                              |       | 719,543,514                       | 1,569,064,001   | 22,664,010,986   | 48,802,537,906   |  |
| Earnings per share                               |       |                                   |                 |                  |                  |  |
| Basic earnings per share                         | 39    | 0.18                              | 0.38            | 5.65             | 11.72            |  |
| <b>C</b> .                                       |       |                                   |                 |                  |                  |  |

#### Statement of Comprehensive Income

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  | Consolidated financial statements       |                 |                 |                  |  |
|--|---|-----------------|-----------------|------------------|--|
|  |   | Unit: US Dollar | Unit: Baht      |                  |  |
|  | 2020                                    | 2019            | 2020            | 2019             |  |
| Profit for the year                            | 719,543,514                             | 1,569,064,001   | 22,664,010,986  | 48,802,537,906   |  |
| Other comprehensive income (expense)           | 719,040,014                             | 1,309,004,001   | 22,004,010,900  | 40,002,337,900   |  |
| Items that will be reclassified subsequently   |   |                 |                 |                  |  |
| to profit or loss                              |   |                 |                 |                  |  |
| Currency translation differences               | (1,863,524)                             | 3,666,799       | (157,382,987)   | (2,296,043,900)  |  |
| Gain (loss) on remeasuring of financial assets | 757,070                                 | (38,246)        | 26,056,580      | (1,306,085)      |  |
| Income taxes relating to remeasuring of        | 101,010                                 | (00,240)        | 20,000,000      | (1,000,000)      |  |
| financial assets                               | _                                       | 1,134           | -               | 37,087           |  |
| Changes in hedging reserves                    | (38,707,802)                            | 15,188,878      | (1,233,846,536) | 455,066,446      |  |
| Income taxes relating to changes               | (00,101,002)                            | 10,100,010      | (1,200,010,000) | 100,000,110      |  |
| in hedging reserves                            | 7,741,560                               | (3,037,776)     | 246,769,307     | (92,552,256)     |  |
| Share of other comprehensive income            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (0,001,110)     | 210,100,001     | (02,002,200)     |  |
| of associates and joint ventures - net of tax  | 712,424                                 | 4,408,259       | 20,917,074      | 137,371,586      |  |
|  | ,                                       | .,,             |                 |                  |  |
| Total items that will be reclassified          |   |                 |                 |                  |  |
| subsequently to profit or loss                 | (31,360,272)                            | 20,189,048      | (1,097,486,562) | (1,797,427,122)  |  |
| Items that will not be reclassified            |   |                 |                 |                  |  |
| subsequently to profit or loss                 |   |                 |                 |                  |  |
| Currency translation differences               | _                                       |                 | (1 /07 506 632) | (22,753,270,182) |  |
| Loss on remeasuring of financial assets        | (767,192)                               |                 | (26,583,198)    | (22,100,210,102) |  |
| Share of other comprehensive loss of           | (101,132)                               |                 | (20,000,100)    |                  |  |
| associates                                     | (44,146,212)                            | (30,753)        | (1,394,988,154) | (940,226)        |  |
| Gain (loss) from changes in actuarial          | (11,110,212)                            | (00,100)        | (1,001,000,101) | (0.10,220)       |  |
| assumptions of provision for                   |   |                 |                 |                  |  |
| employee benefits                              | 1,431,600                               | (26,651,682)    | 44,608,970      | (805,495,659)    |  |
| Income taxes resulting from changes in         | 1,101,000                               | (20,001,002)    | 1,000,010       | (000, 100,000)   |  |
| actuarial assumptions of provision             |   |                 |                 |                  |  |
| for employee benefits                          | -                                       | 12,021,516      | -               | 363,224,671      |  |
|  |   |                 |                 |                  |  |
| Total items that will not be reclassified      |   |                 |                 |                  |  |
| subsequently to profit or loss                 | (43,481,804)                            | (14,660,919)    | (2,784,469,014) | (23,196,481,396) |  |
|  |   |                 |                 |                  |  |
| Other comprehensive income (expense)           | (74 040 070)                            | E E 0 400       | (2 001 055 570) | (24 002 009 540) |  |
| for the year - net of tax                      | (74,842,076)                            | 5,528,129       | (3,881,955,576) | (24,993,908,518) |  |
| Total comprehensive income for the year        | 644,701,438                             | 1,574,592,130   | 18,782,055,410  | 23,808,629,388   |  |

#### Statement of Income

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |       | Separate financial statements<br>Unit: US Dollar Unit: |               |                  |                    |
|--|-------|--|---------------|------------------|--------------------|
|  | Notes | 2020   | 2019          | 2020             | Unit: Baht<br>2019 |
|  | NULES | 2020   | 2013          | 2020             | 2015               |
| Revenues                                     |       |  |               |                  |                    |
| Revenue from sales                           |       | 2,596,639,824  | 3,239,250,217 | 81,100,135,865   | 100,507,848,760    |
| Other income                                 |       |  |               |                  |                    |
| Gain on foreign exchange rate                |       | 32,705,727   | 48,348,320    | 1,030,395,532    | 1,503,434,335      |
| Interest income                              |       | 256,408,728  | 315,066,394   | 8,025,652,321    | 9,775,532,625      |
| Other income                                 |       | 143,099,645  | 144,354,658   | 4,463,782,415    | 4,463,376,042      |
| Dividend income from related parties         |       | 28,930,433   | 46,175,204    | 921,684,211      | 1,412,601,869      |
|  |       |  |               |                  |                    |
| Total revenues                               |       | 3,057,784,357  | 3,793,194,793 | 95,541,650,344   | 117,662,793,631    |
| Expenses                                     |       |  |               |                  |                    |
| Operating expenses                           |       | 259,050,078  | 279,559,667   | 8,104,381,097    | 8,647,466,649      |
| Exploration expenses                         |       | 1,262,512  | 259,142       | 39,582,445       | 7,929,998          |
| Administrative expenses                      |       | 308,115,097  |               | 9,574,527,748    | 11,644,182,377     |
| Petroleum royalties                          |       | 324,645,182  | 404,906,293   | 10,139,606,184   | 12,563,481,576     |
| Depreciation, depletion and amortisation     |       | 1,002,201,715  | 1,050,260,840 | 31,344,016,495   | 32,585,816,321     |
| Other expenses                               |       | 1,002,201,710  | 1,000,200,040 | 01,044,010,400   | 52,505,010,521     |
| Loss on remeasuring of financial instruments |       | 8,369,954  | 73,572,180    | 282,621,914      | 2,302,963,481      |
| Finance costs                                |       | 84,829,269   | 108,285,400   | 2,647,254,364    | 3,369,991,182      |
|  |       | 01,020,200   | 100,200,100   | 2,011,201,001    | 0,000,001,102      |
| Total expenses                               |       | 1,988,473,807  | 2,293,181,397 | 62,131,990,247   | 71,121,831,584     |
|  |       |  |               |                  |                    |
| Profit before income taxes                   |       | 1,069,310,550  | 1,500,013,396 | 33,409,660,097   | 46,540,962,047     |
| Income taxes                                 | 37    | (335,326,250)  | (364,292,665) | (10,409,785,348) | (11,265,866,207)   |
| Profit for the year                          |       | 733,984,300  | 1,135,720,731 | 22,999,874,749   | 35,275,095,840     |
|  |       |  |               |                  |                    |
|  |       |  |               |                  |                    |
| Earnings per share                           | 20    | 0.18   | 0.28          | E 74             | 0 00               |
| Basic earnings per share                     | 39    | 0.18   | 0.28          | 5.74             | 8.80               |

#### Statement of Comprehensive Income

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |              | Unit: US Dollar |                 | Unit: Baht       |
|--|--------------|-----------------|-----------------|------------------|
|  | 2020         | 2019            | 2020            | 2019             |
| Profit for the year                                      | 733,984,300  | 1,135,720,731   | 22,999,874,749  | 35,275,095,840   |
| Other comprehensive income (expense)                     |              |                 |                 |                  |
| Items that will be reclassified subsequently             |              |                 |                 |                  |
| to profit or loss  |              | (               |                 | (                |
| Loss on remeasuring of financial assets                  | -            | (5,670)         | -               | (185,437)        |
| Income taxes relating to remeasuring                     |              |                 |                 |                  |
| of financial assets                                      | -            | 1,134           | -               | 37,087           |
| Changes in hedging reserves                              | (32,051,653) | 13,053,896      | (1,020,763,334) | 392,389,523      |
| Income taxes relating to changes in hedging reserves     | 6,410,330    | (2,610,779)     | 204,152,667     | (79,452,826)     |
| Total items that will be realized if a day has month.    |              |                 |                 |                  |
| Total items that will be reclassified subsequently       | (05 644 202) | 10 420 501      | (046 640 667)   | 240 700 247      |
| to profit or loss  | (25,641,323) | 10,438,581      | (816,610,667)   | 312,788,347      |
| Item that will not be reclassified subsequently          |              |                 |                 |                  |
| to profit or loss  |              |                 |                 |                  |
| Currency translation differences                         | -            | -               | (1,407,506,632) | (22,753,270,182) |
| Loss from changes in actuarial assumptions               |              |                 |                 |                  |
| of provision for employee benefits                       | -            | (24,116,038)    | -               | (728,863,049)    |
| Income taxes resulting from changes in                   |              |                 |                 |                  |
| actuarial assumptions of provision                       |              |                 |                 |                  |
| for employee benefits                                    | -            | 12,058,019      | -               | 364,431,524      |
|  |              |                 |                 |                  |
| Total items that will not be reclassified subsequently   |              |                 |                 |                  |
| to profit or loss  | -            | (12,058,019)    | (1,407,506,632) | (23,117,701,707) |
| Other commence for the user                              |              |                 |                 |                  |
| Other comprehensive expense for the year<br>- net of tax | (25 6/1 202) | (1 610 120)     | (2 224 117 200) | (22 004 012 260) |
| - net of tax   | (25,641,323) | (1,619,438)     | (2,224,117,299) | (22,804,913,360) |
| Total comprehensive income for the year                  | 708,342,977  | 1,134,101,293   | 20,775,757,450  | 12,470,182,480   |

|                        | <sup>m</sup> o                            |
|------------------------|---|
| n Equity               | tion Public (                             |
| hanges in Equ          | Production                                |
| Statement of Changes i | PTT Evoloration and Production Public Com |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|                                      |                       |               |                         |            |                   | Consolidated fin | Consolidated financial statements |  |                                      |                             |                           |                             |
|--------------------------------------|-----------------------|---------------|-------------------------|------------|-------------------|------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---------------------------|-----------------------------|
|                                      |                       |               |                         |            |                   |                  |                                   | Other  |                                      |                             |                           | Unit: US Dollar             |
|                                      |                       |               |                         |            |                   | T                | Other                             | Comprehensive                                  | Other comprehensive income (expense) | equity<br>nse)              |                           |                             |
|                                      |                       |               |                         |            | -                 |                  |                                   |  |                                      | Share of other              |                           |                             |
|                                      |                       |               |                         |            | Retained earnings | ß                |                                   |  |                                      | comprehensive               |                           |                             |
|                                      | Issued and<br>paid-up | Share         | Subordinated<br>capital | Legal      | Reserve for       |                  | Currency F<br>translation         | Currency Remeasuring<br>anslation of financial | Cash flow<br>hedge                   | income of<br>associates and | Total other<br>components | Total                       |
|                                      | share capital         | premium       | debentures              | reserve    | expansion         | Unappropriated   | differences                       | assets   | reserve                              | joint ventures              | of equity                 | equity                      |
| Balance as at 1 January 2019         | 150,683,762           | 3,439,036,612 | 1,154,687,532           | 15,048,319 | 431,231,212       | 6,847,836,815    | (53,981,693)                      | (719,958)                                      | 17,626,981                           | 3,949,734                   | (33,124,936)              | 12,005,399,316              |
| Changes in equity for the year       |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| Deferred income tax on surplus       |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| from business combination            |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| under common control                 |                       |               |                         | '          | '                 | 325,673          |                                   | ,  |                                      |                             |                           | 325,673                     |
| Interest expenses for subordinated   |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| capital debentures                   |                       | '             | '                       |            | '                 | (53,610,567)     | '                                 | '  |                                      |                             | '                         | (53,610,567)                |
| Redemption of subordinated           |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| capital debentures                   |                       | '             | (967,253,029)           | ,          | '                 | (23,593,066)     | '                                 | '  |                                      |                             | '                         | (990,846,095)               |
| Income tax for subordinated          |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| capital debentures                   |                       |               | '                       | '          | '                 | 3,073,806        |                                   | '  | '                                    |                             | '                         | 3,073,806                   |
| Dividends paid                       |                       | '             |                         | '          | '                 | (697,760,493)    | '                                 | '  |                                      |                             | '                         | (697,760,493)               |
| Profit for the year                  |                       | '             | '                       | '          | '                 | 1,569,064,001    |                                   | '  |                                      |                             | '                         | 1,569,064,001               |
| Other comprehensive income (expense) |                       |               |                         |            |                   |                  |                                   |  |                                      |                             |                           |                             |
| for the year                         |                       |               |                         |            |                   | (14,660,919)     | 3,666,799                         | (37,112)                                       | 12,151,102                           | 4,408,259                   | 20,189,048                | 5,528,129                   |
| Balance as at 31 December 2019       | 150 683 762           | 3 430 036 612 | 187 A34 503 15 048 310  | 15 048 310 | 431 231 212       | 7 630 675 250    | (50 314 804)                      | (757 070)                                      | 20 778 083                           | 8 357 993                   | (17 035 888)              | (12 035 888) 11 841 173 770 |

ny Limited Ьa

|  |                      |                           |          |                     |            |                  | <b>Consolidated fine</b> | <b>Consolidated financial statements</b> |                      |                                      |                            |                          |                             |
|--|----------------------|---------------------------|----------|---------------------|------------|------------------|--------------------------|--|----------------------|--------------------------------------|----------------------------|--------------------------|-----------------------------|
|  |                      |                           |          |                     |            |                  |                          |  |                      |                                      |                            |                          | Unit: US Dollar             |
|  |                      |                           |          |                     |            |                  |                          |  | Other                | Other components of equity           | equity                     |                          |                             |
|  |                      |                           |          |                     |            |                  |                          | Other                                    | . comprehensiv       | Other comprehensive income (expense) | se)                        |                          |                             |
|  |                      |                           |          |                     |            | Potsingd gaminge | l<br>g                   |  |                      |                                      | Share of other             |                          |                             |
|  | lssned and           | and                       | U.       | Subordinated        |            |                  | 2                        | Currency                                 | Currency Remeasuring | Cash flow in                         | Cash flow income (expense) | Total other              |                             |
|  | pai<br>pai           | 2<br>2<br>2               |          | capital             | Legal      |                  | nanoronriatod            | translation                              | of financial         | hedge of                             | of associates and          | components<br>of counity | Total                       |
| Ž  | NOIGS SIIGLE CAPILOI |                           | hellinii | nepelitates         |            | expansion        | uliappi upi lateu        |  | googlo               | I ESEI VE                            |                            | oi equity                | eduity                      |
| Balance as at 1 January 2020   | 150,683,762          | 3,762 3,439,036,612       | 36,612   | 187,434,503 15,048, | 15,048,319 | 431,231,212      | 7,630,675,250            | (50,314,894)                             | (757,070)            | 29,778,083                           | 8,357,993                  | (12,935,888)             | (12,935,888) 11,841,173,770 |
| Impact from cnanges in<br>accounting policies                        | 9                    |                           |          |                     |            |                  |                          |  | ,                    |                                      | 22,709,513                 | 22,709,513               | 22,709,513                  |
| Adjusted balance<br>as at 1 January 2020                             | 150,683              | 150,683,762 3,439,036,612 | 36,612   | 187,434,503 15,048  | 15,048,319 | 431,231,212      | 7,630,675,250            | (50,314,894)                             | (757,070)            | 29,778,083                           | 31,067,506                 | 9,773,625                | 9,773,625 11,863,883,283    |
| Changes in equity for the year<br>Interest expenses for subordinated |                      |                           |          |                     |            |                  |                          |  |                      |                                      |                            |                          |                             |
| capital debentures   |                      | ı                         | ,        |                     | I          | 1                | (10,125,624)             | 1  | ı                    |                                      |                            |                          | (10,125,624)                |
|  | 34                   |                           |          | (30,864,020)        |            |                  | 12,020                   |  |                      |                                      |                            |                          | (30,852,000)                |
| Income tax for subordinated<br>capital debentures                    |                      |                           |          | ,                   | I          | I                | 2,511,018                |  |                      | ı                                    |                            | ,                        | 2,511,018                   |
|  | 35                   | I                         | ,        | '                   | '          | 1                | (671,000,170)            | 1  | 1                    | I                                    | I                          | ,                        | (671,000,170)               |
| Profit for the year  |                      |                           |          | '                   | '          | '                | 719,543,514              | '  | •                    | '                                    |                            | '                        | 719,543,514                 |
| Other comprehensive income (expense) for the year                    |                      | ,                         | ,        |                     | '          |                  | 1,286,312                | (1,863,524)                              | (10,122)             | (30,966,242)                         | (43,288,500)               | (76,128,388)             | (74,842,076)                |
| Balance as at 31 December 2020                                       | 150,683              | 150,683,762 3,439,036,612 | 36,612   | 156,570,483 15,048, | 15,048,319 | 431,231,212      | 7,672,902,320            | (52,178,418)                             | (767,192)            | (1,188,159)                          | (12,220,994)               | (66,354,763)             | (66,354,763) 11,799,117,945 |

# Statement of Changes in Equity PTT Exploration and Production Public Company Limited

PTT Exploration and Production Public Company Limite For the year ended 31 December 2020

|                                      |                       |                               |   |             |                   | Consolidated financial statements   | ncial statements          |  |                                      |                             |   |                    |
|--------------------------------------|-----------------------|-------------------------------|---|-------------|-------------------|---|---------------------------|--|--------------------------------------|-----------------------------|---|--------------------|
|                                      |                       |                               |   |             |                   |   |                           |  |                                      |                             |   | Unit: Baht         |
|                                      |                       |                               |   |             |                   |   |                           | Other  | Other components of equity           | equity                      |   |                    |
|                                      |                       |                               |   |             |                   |   | Other                     | comprehensive                                  | Other comprehensive income (expense) | ise)                        |   |                    |
|                                      |                       |                               |   |             |                   |   |                           |  |                                      | Share of other              |   |                    |
|                                      |                       |                               |   |             | Retained earnings | sbu   |                           |  |                                      | comprehensive               |   |                    |
|                                      | Issued and<br>paid-up | Share                         | Subordinated<br>capital   | Legal       | Reserve for       |   | Currency R<br>translation | Currency Remeasuring<br>anslation of financial | Cash flow<br>hedge                   | income of<br>associates and | Total other<br>components                     | Total              |
|                                      | share capital         | premium                       | debentures  | reserve     | expansion         | expansion Unappropriated  | differences               | assets   | reserve                              | joint ventures              | of equity                                     | equity             |
| Balance as at 1 January 2019         | 3,969,985,400         | 105,417,619,764               | 3,969,985,400 105,417,619,764 38,231,753,921 396,998,540 16,900,000,000 222,900,331,939 | 396,998,540 | 16,900,000,000    | 222,900,331,939   | 928,581,429 (24,787,582)  | (24,787,582)                                   | 719,606,831                          | 133,109,860                 | 1,756,510,538 389,573,200,102                 | 9,573,200,102      |
| Changes in equity for the year       |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| Deferred income tax on surplus       |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| from business combination            |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| under common control                 |                       |                               |   |             |                   | 9,956,962   | •                         |  | •                                    |                             |   | 9,956,962          |
| Interest expenses for subordinated   |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| capital debentures                   | '                     |                               |   | •           | '                 | (1,662,969,359)   | '                         |  | '                                    |                             | -   | (1,662,969,359)    |
| Redemption of subordinated           |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| capital debentures                   |                       |                               | - (32,213,720,233)  |             | '                 | (716,290,408)   | '                         |  |                                      |                             | - (3  | - (32,930,010,641) |
| Income tax for subordinated          |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| capital debentures                   |                       |                               |   |             | '                 | 94,437,501  | '                         |  |                                      |                             |   | 94,437,501         |
| Dividends paid                       |                       |                               |   | ı           |                   | (21,834,529,501)  |                           | '  |                                      |                             | - (2  | (21,834,529,501)   |
| Profit for the year                  | ı                     | ı                             | ı   |             | ı                 | 48,802,537,906  | '                         | ı  | '                                    |                             |   | 48,802,537,906     |
| Other comprehensive income (expense) |                       |                               |   |             |                   |   |                           |  |                                      |                             |   |                    |
| for the year                         |                       |                               |   |             | '                 | (443,211,214) (25,049,314,082)  | 5,049,314,082)            | (1,268,998)                                    | 362,514,190                          | 137,371,586 (2              | 137,371,586 (24,550,697,304) (24,993,908,518) | 1,993,908,518)     |
| Balance as at 31 December 2019       | 3,969,985,400         | 3,969,985,400 105,417,619,764 | 6,018,033,688 3   | 396,998,540 | 16,900,000,000    | 6,018,033,688 396,998,540 16,900,000,000 247,150,263,826 (24,120,732,653) |                           | (26,056,580) 1,082,121,021                     | ,082,121,021                         | 270,481,446 (2              | 270,481,446 (22,794,186,766) 357,058,714,452  | 7,058,714,452      |

|  |       |                     |                               |                        |                  |                          | Consolidated fi                                      | <b>Consolidated financial statements</b> |                             |                                      |                                     |  |                    |
|--|-------|---------------------|-------------------------------|------------------------|------------------|--------------------------|--|--|-----------------------------|--------------------------------------|-------------------------------------|--|--------------------|
|  |       |                     |                               |                        |                  |                          |  |  |                             |                                      |                                     |  | Unit: Baht         |
|  |       |                     |                               |                        |                  |                          |  |  | Other                       | Other components of equity           | equity                              |  |                    |
|  |       |                     |                               |                        |                  |                          |  | Other                                    | comprehensiv                | Other comprehensive income (expense) | nse)                                |  |                    |
|  |       |                     |                               |                        |                  |                          |  |  |                             |                                      | Share of other                      |  |                    |
|  |       |                     |                               |                        |                  | <b>Retained earnings</b> | sb   |  |                             |                                      | comprehensive                       |  |                    |
|  |       | Issued and          |                               | Subordinated           |                  |                          |  | Currency                                 | Currency Remeasuring        | Cash flow i                          | income (expense)                    | Total other                                    |                    |
| £  | Notes | Notes share capital | Share<br>premium              | capital<br>debentures  | Legal<br>reserve | Reserve for<br>expansion | Unappropriated                                       | translation<br>differences               | of financial<br>assets      | hedge c<br>reserve                   | of associates and<br>joint ventures | components<br>of equity                        | Total<br>equity    |
|  |       |                     | 01 111 C10 TC1                |                        | 00 000 1 10      |                          |  |  |                             | 100 101 000                          | 2) 011 101 0 <u>70</u>              |  |                    |
| Balance as at 1 January 2020<br>Imnact from chances in |       | 3,909,985,400       | 3,909,980,400 IU5,417,019,704 | 0,U18,U33,088 390,998, | 290,998,540      | 16,900,000,000           | ,340 16,300,000,000 247,130,263,326 (24,120,732,533) | (24,120,132,033)                         | 1,20,121,280,1 (USC,0C0,0Z) | 1,082,121,021                        | 2/ 0,481,446                        | 2/10,481,440 (22,794,180,700) 337,038,714,432  | 201, UD8, 114, 452 |
| accounting policies                                    | 9     |                     |                               |                        | L                | '                        |  |  |                             | ı                                    | 684,782,576                         | 684,782,576                                    | 684,782,576        |
| Adjusted balance<br>as at 1 January 2020               |       | 3,969,985,400       | 3,969,985,400 105,417,619,764 | 6,018,033,688 396,998, | 396,998,540      | 16,900,000,000           | 540 16,900,000,000 247,150,263,826 (24,120,732,653)  |  | (26,056,580) 1,082,121,021  | 1,082,121,021                        | 955,264,022 (2                      | 955,264,022 (22,109,404,190) 357,743,497,028   | 57,743,497,028     |
| Changes in equity for the year                         |       |                     |                               |                        |                  |                          |  |  |                             |                                      |                                     |  |                    |
| capital debentures                                     |       |                     |                               |                        | '                | '                        | (314,980,577)  |  |                             |                                      | ı                                   |  | (314,980,577)      |
| Redemption of subordinated                             | č     |                     |                               | 1000 110 200 11        |                  |                          | 160.070  |  |                             |                                      |                                     |  | 11 DOF FON DEDV    |
| capital debeniures<br>Income tax for subordinated      | 5     |                     |                               | (1,000,04,140,000,1)   | •                |                          | 403,010  |  |                             |                                      |                                     |  | (602,200,000,1)    |
| capital debentures                                     |       | '                   | 1                             | 1                      | ľ                | I                        | 77,761,632   | 1  |                             |                                      |                                     |  | 77,761,632         |
| Dividends paid   | 35    | •                   | ı                             | '                      | '                | '                        | - (20,841,870,796)                                   | ı  | '                           | '                                    |                                     |  | (20,841,870,796)   |
| Profit for the year                                    |       | I                   | I                             | 1                      | '                | 1                        | 22,664,010,986                                       | I  | '                           | 1                                    | 1                                   | I  | 22,664,010,986     |
| Other comprehensive income (expense)                   | e)    |                     |                               |                        |                  |                          |  |  |                             |                                      |                                     |  |                    |
| for the year   |       | '                   | '                             |                        | •                | '                        | 39,948,528   | (1,564,889,619)                          | (526,618) (                 | (981,011,229)                        | (1,369,410,638) (                   | (3,921,904,104)                                | (3,881,955,576)    |
| Balance as at 31 December 2020                         | I     | 3,969,985,400       | 3,969,985,400 105,417,619,764 | 4,981,992,349 396,998, | 396,998,540      | 16,900,000,000           | 540 16,900,000,000 248,775,592,669 (25,685,622,272)  | (25,685,622,272)                         | (26,583,198)                | 95,043,792                           | (414,146,616) (2                    | (414,146,616) (26,031,308,294) 354,410,880,428 | 54,410,880,428     |

The notes to the consolidated and separate financial statements are an integral part of these financial statements.

PTT Exploration and Production Public Company Limited

Statement of Changes in Equity

For the year ended 31 December 2020

|          | ( |
|----------|---|
|          |   |
| ₹        | - |
| Ξ.       | ć |
| <u> </u> |   |
| ш        |   |
| ⊒.       | 1 |
| ŝ        | ÷ |
| <u> </u> | 1 |
| Ĕ        | ۵ |
| g        | 3 |
| Ъ.       |   |
| Ξ.       | 1 |
| Ö        | - |
| Ħ        |   |
| ē        | _ |
| Е        |   |
| Ð        | Ľ |
| g        | ł |
| Sta      | č |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |                       |                           |                                    |            | Separate fin      | Separate financial statements | 0                           |                            |                           |                           |
|--|-----------------------|---------------------------|------------------------------------|------------|-------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|
|  |                       |                           |                                    |            |                   |                               |                             |                            |                           | Unit: US Dollar           |
|  |                       |                           |                                    |            |                   |                               | Other col                   | Other components of equity | quity                     |                           |
|  |                       |                           |                                    |            |                   |                               | Other comprehensive         | shensive                   |                           |                           |
|  |                       |                           |                                    |            | Retained earnings | ngs                           | income                      | e                          |                           |                           |
|  | Issued and<br>paid-up | Share                     | Subordinated<br>capital            | Legal      | Legal Reserve for |                               | Remeasuring<br>of financial | Cash flow<br>hedge         | Total other<br>components | Total                     |
|  | share capital         | premium                   | debentures                         | reserve    | expansion         | expansion Unappropriated      | assets                      | reserve                    | of equity                 | equity                    |
| Balance as at 1 January 2019   | 150,683,762           | 150,683,762 3,439,036,612 | 301,226,483 15,048,319 431,231,212 | 15,048,319 | 431,231,212       | 5,597,858,914                 | 4,536                       | 17,626,981                 | 17,631,517                | 9,952,716,819             |
| Changes in equity for the year<br>Interest expenses for subordinated |                       |                           |                                    |            |                   |                               |                             |                            |                           |                           |
| capital debentures   |                       | •                         | '                                  |            |                   | (13,632,287)                  |                             |                            |                           | (13,632,287)              |
| Redemption of subordinated   |                       |                           |                                    |            |                   |                               |                             |                            |                           |                           |
| capital debentures   |                       | '                         | (144,656,000)                      | •          | '                 | (649,000)                     |                             | '                          |                           | (145,305,000)             |
| Income tax for subordinated  |                       |                           |                                    |            |                   |                               |                             |                            |                           |                           |
| capital debentures   |                       |                           | •                                  | •          | '                 | 2,939,552                     | •                           | '                          | '                         | 2,939,552                 |
| Dividends paid   |                       |                           | ,                                  | '          | '                 | (697,760,493)                 |                             | ·                          | '                         | (697,760,493)             |
| Profit for the year  | ı                     | ı                         | ı                                  | '          | ı                 | 1,135,720,731                 | ı                           | ı                          | ı                         | 1,135,720,731             |
| Other comprehensive income   |                       |                           |                                    |            |                   |                               |                             |                            |                           |                           |
| (expense) for the year   | '                     | '                         | '                                  | '          | '                 | (12,058,019)                  | (4,536)                     | 10,443,117                 | 10,438,581                | (1,619,438)               |
| Balance as at 31 December 2019                                       | 150,683,762           | 150,683,762 3,439,036,612 | 156,570,483 15,048,319 431,231,212 | 15,048,319 | 431,231,212       | 6,012,419,398                 | '                           | 28,070,098                 | 28,070,098                | 28,070,098 10,233,059,884 |

Statement of Changes in Equity PTT Exploration and Production Public Company Limited

P11 Exploration and Production Public Company Lim For the year ended 31 December 2020

|                                    |                    |                           |                                    |            | Separate fir       | Separate financial statements | S                           |                            |                           |                           |
|------------------------------------|--------------------|---------------------------|------------------------------------|------------|--------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|
|                                    |                    |                           |                                    |            |                    |                               |                             |                            |                           | <b>Unit: US Dollar</b>    |
|                                    |                    |                           |                                    |            |                    |                               | Other co                    | Other components of equity | aquity                    |                           |
|                                    |                    |                           |                                    |            | Retained earnings  | ings                          | Other comprehensive income  | rehensive<br>ne            |                           |                           |
|                                    | Issued and         | Share                     | Subordinated canital               | enal       | l enal Reserve for |                               | Remeasuring<br>of financial | Cas                        | th flow Total other       | Total                     |
| Not                                | Note share capital | premium                   | debentures                         | reserve    | expansion          | expansion Unappropriated      | assets                      | reserve                    | of equity                 | equity                    |
| Balance as at 1 January 2020       | 150,683,762        | 150,683,762 3,439,036,612 | 156,570,483 15,048,319 431,231,212 | 15,048,319 | 431,231,212        | 6,012,419,398                 | I                           | 28,070,098                 | 28,070,098                | 28,070,098 10,233,059,884 |
| Changes in equity for the year     |                    |                           |                                    |            |                    |                               |                             |                            |                           |                           |
| Interest expenses for subordinated |                    |                           |                                    |            |                    |                               |                             |                            |                           |                           |
| capital debentures                 | '                  | 1                         | 1                                  | •          | •                  | (9,443,622)                   | 1                           | 1                          | 1                         | (9,443,622)               |
| Income tax for subordinated        |                    |                           |                                    |            |                    |                               |                             |                            |                           |                           |
| capital debentures                 | '                  | 1                         | 1                                  | •          | 1                  | 2,024,610                     | 1                           | 1                          | 1                         | 2,024,610                 |
| Dividends paid 35                  | '                  | 1                         | 1                                  | •          | 1                  | (671,000,170)                 | 1                           | 1                          | '                         | (671,000,170)             |
| Profit for the year                |                    | 1                         | 1                                  | •          | 1                  | 733,984,300                   | 1                           | 1                          | 1                         | 733,984,300               |
| Other comprehensive expense        |                    |                           |                                    |            |                    |                               |                             |                            |                           |                           |
| for the year                       | '                  |                           | '                                  | '          | '                  | '                             | '                           | (25,641,323)               | (25,641,323) (25,641,323) | (25,641,323)              |
| Balance as at 31 December 2020     | 150,683,762        | 150,683,762 3,439,036,612 | 156,570,483 15,048,319 431,231,212 | 15,048,319 | 431,231,212        | 6,067,984,516                 |                             | 2,428,775                  | 2,428,775                 | 2,428,775 10,262,983,679  |
|                                    |                    |                           |                                    |            |                    |                               |                             |                            |                           |                           |

| uity     |  |
|----------|--|
| iп<br>Еq |  |
| Jges     |  |
| Char     |  |
| t of     |  |
| nen      |  |
| tater    |  |
| Ś        |  |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |               |   |                   |             | Sep               | Separate financial statements | ements                               |                            |                |   |                               |
|--|---------------|---|-------------------|-------------|-------------------|-------------------------------|--------------------------------------|----------------------------|----------------|---|-------------------------------|
|  |               |   |                   |             |                   |                               |                                      |                            |                |   | Unit: Baht                    |
|  |               |   |                   |             |                   |                               | Ó                                    | Other components of equity | nts of equity  |   |                               |
|  |               |   |                   |             | Retained earnings | ß                             | Other comprehensive income (expense) | nsive income (             | expense)       |   |                               |
|  | Issued and    |   | Subordinated      |             |                   | -                             | Currency R                           | Currency Remeasuring       | Cash flow      | Total other   |                               |
|  | paid-up       | Share   | capital           | Legal       | Reserve for       |                               | translation                          | of financial               | hedge          | components  | Total                         |
|  | share capital | premium   | debentures        | reserve     | expansion         | expansion Unappropriated      | differences                          | assets                     | reserve        | of equity   | equity                        |
| Balance as at 1 January 2019                             | 3,969,985,400 | 3,969,985,400 105,417,619,764 9,661,771,205 396,998,540 16,900,000 187,500,874,929 (1,492,579,975)      | 9,661,771,205     | 396,998,540 | 16,900,000,000    | 187,500,874,929               | (1,492,579,975)                      | 148,350                    | 609,176,074    | (883,255,551)                                       | (883,255,551) 322,963,994,287 |
| Changes in equity for the year                           |               |   |                   |             |                   |                               |                                      |                            |                |   |                               |
| interest expenses for subordinated<br>capital debentures |               |   |                   | '           |                   | (422,134,817)                 |                                      |                            |                |   | (422,134,817)                 |
| Redemption of subordinated                               |               |   |                   |             |                   |                               |                                      |                            |                |   |                               |
| capital debentures                                       | '             | ı   | - (4,679,778,856) | '           | 1                 | (20,990,128)                  | '                                    | '                          | ·              | ı   | (4,700,768,984)               |
| Income tax for subordinated                              |               |   |                   |             |                   |                               |                                      |                            |                |   |                               |
| capital debentures                                       | '             |   |                   | '           | '                 | 90,908,054                    |                                      | '                          |                | •   | 90,908,054                    |
| Dividends paid   | '             |   |                   | •           | '                 | (21,834,529,501)              |                                      | '                          | '              | •   | (21,834,529,501)              |
| Profit for the year                                      | '             |   |                   | '           | '                 | 35,275,095,840                |                                      | '                          | '              | '   | 35,275,095,840                |
| Other comprehensive income (expense)                     |               |   |                   |             |                   |                               |                                      |                            |                |   |                               |
| for the year   | '             |   | •                 | •           | •                 | (364,431,525)                 | (364,431,525) (22,753,270,182)       | (148,350)                  | 312,936,697 (2 | 312,936,697 (22,440,481,835) (22,804,913,360)       | 22,804,913,360)               |
| Balance as at 31 December 2019                           | 3,969,985,400 | 3,969,985,400 105,417,619,764 4,981,992,349 396,998,540 16,900,000,000 200,224,792,852 (24,245,850,157) | 4,981,992,349     | 396,998,540 | 16,900,000,000    | 200,224,792,852               | (24,245,850,157)                     | 1                          | 922,112,771 (2 | <u>922,112,771 (23,323,737,386) 308,567,651,519</u> | 308,567,651,519               |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |      |               |                 |               |             | Sep               | Separate financial statements   | ements           |                                      |               |   |                  |
|--|------|---------------|-----------------|---------------|-------------|-------------------|---|------------------|--------------------------------------|---------------|---|------------------|
|  |      |               |                 |               |             |                   |   |                  |                                      |               |   | Unit: Baht       |
|  |      |               |                 |               |             |                   |   |                  | Other components of equity           | nts of equity |   |                  |
|  |      |               |                 |               |             | Retained earnings | sbu   | Other compreh    | Other comprehensive income (expense) | (expense)     |   |                  |
|  |      | Issued and    |                 | Subordinated  |             |                   |   | Currency         | Currency Remeasuring                 | Cash flow     | Total other                                   |                  |
|  |      | paid-up       | Share           | capital       | Legal       | Reserve for       |   | translation      | translation of financial             | hedge         | components                                    | Total            |
|  | Note | share capital | premium         | debentures    | reserve     | expansion         | expansion Unappropriated  | differences      | assets                               | reserve       | of equity                                     | equity           |
| Balance as at 1 January 2020                             |      | 3,969,985,400 | 105,417,619,764 | 4,981,992,349 | 396,998,540 | 16,900,000,000    | 3,969,985,400 105,417,619,764 4,981,992,349 396,998,540 16,900,000,000 200,224,792,852 (24,245,850,157) | (24,245,850,157) | ,                                    | 922,112,771   | 922,112,771 (23,323,737,386) 308,567,651,519  | 308,567,651,519  |
| Changes in equity for the year                           |      |               |                 |               |             |                   |   |                  |                                      |               |   |                  |
| Interest expenses for subordinated<br>capital debentures |      | I             |                 | 1             | 1           | 1                 | (294,226,031)   | 1                | ,                                    | ı             |   | (294,226,031)    |
| Income tax for subordinated                              |      |               |                 |               |             |                   |   |                  |                                      |               |   |                  |
| capital debentures                                       |      | 1             |                 | '             |             | '                 | 62,603,295  | '                | ı                                    | '             | '   | 62,603,295       |
| Dividends paid   | 35   | '             | '               | '             | '           | '                 | (20,841,870,796)  | •                |                                      | '             | '   | (20,841,870,796) |
| Profit for the year                                      |      | I             | ı               | '             | '           | '                 | 22,999,874,749  | '                | ı                                    | ı             |   | 22,999,874,749   |
| Other comprehensive expense                              |      |               |                 |               |             |                   |   |                  |                                      |               |   |                  |
| for the year   |      |               | '               |               |             |                   | '   | (1,407,506,632)  | ) -                                  | 816,610,667)  | (816,610,667) (2,224,117,299) (2,224,117,299) | (2,224,117,299)  |
| Balance as at 31 December 2020                           |      | 3,969,985,400 | 105,417,619,764 | 4,981,992,349 | 396,998,540 | 16,900,000,000    | 3,969,985,400 105,417,619,764 4,981,992,349 396,998,540 16,900,000,000 202,151,174,069 (25,653,356,789) | (25,653,356,789) |                                      | 105,502,104   | 105,502,104 (25,547,854,685) 308,269,915,437  | 308,269,915,437  |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  |                 |                 | nancial statements |                 |
|--|-----------------|-----------------|--------------------|-----------------|
|  |                 | Unit: US Dollar |                    | Unit: Baht      |
|  | 2020            | 2019            | 2020               | 2019            |
| Cash flows from operating activities             |                 |                 |                    |                 |
| Profit before income taxes                       | 1,322,423,732   | 2,246,062,046   | 41,428,294,313     | 69,754,242,057  |
| Adjustments for:                                 |                 |                 |                    |                 |
| Share of profit of associates and joint ventures | (41,636,115)    | (12,351,839)    | (1,307,225,677)    | (380,419,707    |
| Depreciation, depletion and amortisation         | 2,086,082,793   | 2,026,055,587   | 65,249,767,043     | 62,810,841,14   |
| Allowance for impairment loss on assets          | 91,576,324      | -               | 2,806,642,497      |                 |
| Allowance for decrease in value of inventories   |                 |                 |                    |                 |
| to net realisable value                          | 473,989         | (1,363,744)     | 14,824,356         | (43,712,350     |
| Write-off of exploration expenses                | 62,139,598      | 76,756,433      | 1,943,211,886      | 2,368,682,81    |
| Other amortised expenses                         | 10,208,531      | 32,049,621      | 319,349,132        | 972,885,48      |
| Loss on disposal of assets                       | 24,214,793      | 19,049,055      | 757,334,714        | 587,146,42      |
| Income recognised from deferred income           | (2,550,062)     | (3,541,237)     | (79,754,981)       | (109,902,234    |
| Loss on remeasuring financial instruments        | 43,648,839      | 57,849,873      | 1,327,976,795      | 1,782,312,94    |
| Other provisions                                 | -               | 8,133,535       | -                  | 245,821,18      |
| Gain on foreign exchange rates                   | (10,229,025)    | (8,014,338)     | (319,919,969)      | (248,724,87     |
| Interest income lower than interest expenses     | 212,035,514     | 147,107,031     | 6,631,560,130      | 4,565,464,60    |
| Gain on debt modification                        | (22,307,226)    | -               | (679,959,369)      |                 |
| Other expenses                                   | 37,371,126      | 35,252,078      | 1,169,989,415      | 1,106,330,63    |
| Cash flows before changes in working capital     | 3,813,452,811   | 4,623,044,101   | 119,262,090,285    | 143,410,968,13  |
| Changes in working capital                       |                 |                 |                    | , , ,           |
| Trade and other receivables                      | 178,744,910     | 85,635,225      | 5,590,373,024      | 2,657,687,96    |
| Inventories                                      | (29,760,557)    | (14,750,669)    | (930,782,383)      | (457,786,813    |
| Other current financial assets                   | 200,546,001     | (128,999,785)   | 6,272,217,514      | (4,003,506,473  |
| Other current assets                             | 6,258,447       | (18,304,834)    | 195,737,349        | (568,090,24     |
| Rights to receive reimbursement from             |                 | ( , , ,         |                    |                 |
| decommissioning funds                            | (20,987,209)    | (26,903,288)    | (656,389,751)      | (834,943,16     |
| Other non-current assets                         | (25,212,388)    | 40,970,330      | (788,535,211)      | 1,271,513,63    |
| Trade and other payables                         | (110,971,882)   | (107,913,335)   | (3,470,723,797)    | (3,349,088,808  |
| Other current liabilities                        | 24,173,475      | 39,268,024      | 756,042,457        | 1,218,682,58    |
| Provisions                                       | (125,778,800)   | (112,677,624)   | (3,933,820,617)    | (3,496,948,444  |
| Other non-current liabilities                    | (53,139,134)    | 370,903         | (1,661,963,875)    | 11,510,96       |
| Net cash provided by operating activities        | 3,857,325,674   | 4,379,739,048   | 120,634,244,995    | 135,859,999,34  |
| Interest received from bank deposits             | 24,370,832      | 66,838,520      | 762,214,954        | 2,074,332,52    |
| Cash paid for income taxes                       | (1,110,196,221) | (926,972,067)   | (34,722,169,194)   | (28,768,564,890 |
| Net cash flows provided by operating activities  | 2,771,500,285   | 3,519,605,501   | 86,674,290,755     | 109,165,766,98  |

30

#### Statement of Cash Flows

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

| 2020            | Unit: US Dollar<br>2019   | 2020   | Unit: Baht<br>2019  |
|-----------------|---|--|---|
|                 | 2019  | 2020   | 2010  |
| (100 000 000)   |   |  | 2019  |
| (100 000 000)   |   |  |   |
|                 | (744 750 000)   | (3 127 570 472)  | (23,113,305,629)  |
| (100,000,000)   | (111,100,000)   | (0,121,010,112)  | (20,110,000,020)  |
| 200 000 000     | 1 365 410 338   | 6 255 140 944  | 42,375,490,353  |
| 200,000,000     |   |  | (1,133,712)   |
|                 | (00,000)  |  | (1,100,112)   |
| _               | 10 444 330  | -  | 324,139,633   |
| 11 085 655      |   | 346 711 691  | 335,196,063   |
|                 |   |  | 456,713,672   |
|                 |   |  | (84,207,246,710)  |
|                 | (2,710,000,011)   |  | (01,201,210,110)  |
| _               | (19 626 748)  | -  | (609,115,844)   |
| (3 138 215)     | ,   | (98 149 885)   | (2,464,540,889)   |
| · · · ·         |   |  | (2,101,010,000)   |
|                 | -   |  | -   |
|                 | 15 376 377  |  | 477,205,647   |
|                 |   |  | 161,948,823   |
|                 |   |  | (32,993,079,128)  |
|                 | ,   | · · · · · /  | (811,466,087)   |
| (93,651,045)    | (119,228,176)   | (2,929,002,435)  | (3,700,244,754)   |
| (1,071,612,118) | (3,343,627,718)   | (33,515,424,176)   | (103,769,438,562)   |
|                 |   |  |   |
| _               | 259 580 550   | _  | 8,056,078,675   |
| _               |   | _  | (8,032,647,151)   |
| (730 443 433)   | ( )   | (22 845 133 139)   | (12,978,802,274)  |
| . ,             | . ,   | . ,  | 35,070,940,278  |
|                 |   |  | (241,598,267)   |
| (00,002,001)    | · · · /   |  | 18,620,991,444  |
|                 | 000,000,000   |  | 10,020,001,111  |
| (9.945.000)     | (7.613.542)   | (311.036.902)  | (236,286,174)   |
| · · · · · /     | . ,   |  | (3,411,742,705)   |
| (111,001,111)   | (100,002,110)   | (1,010,100,020)  | (0,111,112,100)   |
| (30.852.000)    | (990.846.095)   | (964,918,042)  | (30,750,894,428)  |
| . ,             | . ,   | . ,  | (1,663,803,190)   |
|                 | ,   | -  | 41,998,395  |
| (671,000,170)   | (697,760,493)   | (20,986,003,196)   | (21,654,986,972)  |
| (846,322,345)   | (553,593,047)   | (26,469,327,773)   | (17,180,752,369)  |
|                 | 200,000,000<br>-<br>11,085,655<br>26,806,833<br>-<br>(3,138,215)<br>393,300<br>377,746<br>5,842,500<br>2,277,204<br>(1,093,139,692)<br>(28,466,404)<br>(93,651,045)<br>(1,071,612,118)<br>(1,071,612,118)<br>-<br>(730,443,433)<br>850,000,000<br>(96,362,004)<br>-<br>(9,945,000)<br>(147,594,114)<br>(30,852,000)<br>(10,125,624)<br>-<br>(671,000,170) | 200,000,000       1,365,410,338          10,444,330         11,085,655       10,800,587         26,806,833       14,716,091          (2,713,300,641)          (19,626,748)         (3,138,215)       (79,411,697)         393,300       -          377,746          5,842,500         (1,093,139,692)       (1,063,093,098)         (28,466,404)       (26,146,817)         (93,651,045)       (119,228,176)         (1,071,612,118)       (3,343,627,718)         (1,071,612,118)       (3,343,627,718)         (1,071,612,118)       (3,343,627,718)         (1,071,612,118)       (3,343,627,718)         (1,071,612,118)       (3,343,627,718)         (1,071,612,118)       (3,343,627,718)         (730,443,433)       (418,199,073)         850,000,000       (7,613,542)         (1,130,045,316       (96,362,004)         (7,784,707)       600,000,000         (9,945,000)       (7,613,542)         (147,594,114)       (109,932,149)         (30,852,000)       (990,846,095)         (10,125,624)       (53,610,567)          1,3 | 200,000,000         1,365,410,338         6,255,140,944           -         10,444,330         -           11,085,655         10,800,587         346,711,691           26,806,833         14,716,091         838,402,586           (2,713,300,641)         -         -           -         (19,626,748)         -           (3,138,215)         (79,411,697)         (98,149,885)           393,300         -         11,814,281           5,842,500         15,376,377         182,728,305           2,277,204         5,218,266         71,221,152           (1,093,139,692)         (1,063,093,098)         (34,188,714,226)           (28,466,404)         (26,146,817)         (890,306,852)           (93,651,045)         (119,228,176)         (29,29,002,435)           (1,071,612,118)         (3,343,627,718)         (33,515,424,176)           (730,443,433)         (418,199,073)         (22,845,133,139)           26,584,249,012         (30,13,789,574)         (30,13,789,574)           (96,362,004)         (7,613,542)         (311,036,902)           (147,594,114)         (109,932,149)         (4,616,109,926)           (990,846,095)         (964,918,042)         (316,686,006)           (30,852,000) |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  | Consolidated financial statements |               |                 |                  |  |
|--|-----------------------------------|---------------|-----------------|------------------|--|
|  |                                   | Unit: Baht    |                 |                  |  |
|  | 2020                              | 2019          | 2020            | 2019             |  |
| Net increase (decrease) in cash and  |                                   |               |                 |                  |  |
| cash equivalents   | 853,565,822                       | (377,615,264) | 26,689,538,806  | (11,784,423,950) |  |
| Cash and cash equivalents at the beginning of the year                       | 2,822,897,310                     | 3,180,095,315 | 85,121,635,618  | 103,193,560,790  |  |
| Adjustment for the impact of exchange rate changes                           | 27,539,719                        | 20,417,259    | (553,802,067)   | (6,287,501,222)  |  |
| Cash and cash equivalents at the end of the year                             | 3,704,002,851                     | 2,822,897,310 | 111,257,372,357 | 85,121,635,618   |  |
| <b>Non-cash transactions</b><br>Outstanding payable from purchases of assets | 346,979,242                       | 246,424,994   | 10,852,020,328  | 7,647,796,187    |  |
| Changes in right-of-use assets   | 98,367,212                        | -             | 3,076,503,868   | -                |  |

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  | Separate financial statements<br>Unit: US Dollar Unit: Bah |               |                  |                |  |
|--|--|---------------|------------------|----------------|--|
|  |  | Unit: Bah     |                  |                |  |
|  | 2020   | 2019          | 2020             | 2019           |  |
| Cash flows from operating activities           |  |               |                  |                |  |
| Profit before income taxes                     | 1,069,310,550  | 1,500,013,396 | 33,409,660,097   | 46,540,962,04  |  |
| Adjustments for:                               |  |               |                  |                |  |
| Depreciation, depletion and amortisation       | 1,002,201,715  | 1,050,260,840 | 31,344,016,495   | 32,585,816,32  |  |
| Write-off of exploration expenses              | 1,191,135  | -             | 37,358,321       |                |  |
| Other amortised expenses                       | 2,596,167  | 18,947,870    | 81,152,238       | 574,645,12     |  |
| Loss on disposal of assets                     | 14,058,546   | 2,647,971     | 447,268,424      | 79,178,71      |  |
| Income recognised from deferred income         | (1,657,774)  | (1,110,595)   | (51,848,056)     | (34,467,28     |  |
| Loss on remeasuring financial instruments      | 10,716,475   | 9,047,624     | 361,266,419      | 288,510,61     |  |
| Dividend income from related parties           | (28,930,433)   | (46,175,204)  | (921,684,211)    | (1,412,601,86  |  |
| Other provision                                | -  | 9,763,436     | -                | 295,081,96     |  |
| (Gain) loss on foreign exchange rates          | (2,415,206)  | 2,730,310     | (75,537,259)     | 84,735,14      |  |
| Interest income higher than interest expenses  | (172,040,630)  | (207,477,753) | (5,392,781,807)  | (6,427,251,68  |  |
| Other expenses                                 | 15,108,675   | 31,251,247    | 472,547,888      | 980,361,47     |  |
| Cash flows before changes in working capital   | 1,910,139,220  | 2,369,899,142 | 59,711,418,549   | 73,554,970,5   |  |
| Changes in working capital                     |  |               |                  |                |  |
| Trade and other receivables                    | 57,322,804   | 3,249,252     | 1,792,811,085    | 100,840,48     |  |
| Inventories                                    | (7,208,509)  | (1,063,826)   | (225,451,199)    | (33,015,83     |  |
| Other current financial assets                 | -  | 70,000,000    | -                | 2,172,449,0    |  |
| Other current assets                           | 27,214,483   | (32,651,005)  | 851,152,131      | (1,013,323,47  |  |
| Other non-current assets                       | 53,296   | 426,414       | 1,666,866        | 13,233,76      |  |
| Trade and other payables                       | (40,430,073)   | (5,345,236)   | (1,264,479,012)  | (165,889,31    |  |
| Other current liabilities                      | (19,881,711)   | 22,922,113    | (621,814,526)    | 711,387,46     |  |
| Provisions                                     | (110,011,352)  | (90,231,073)  | (3,440,682,543)  | (2,800,320,06  |  |
| Other non-current liabilities                  | (3,735,549)  | (5,020,084)   | (116,831,934)    | (155,798,24    |  |
| Net cash provided by operating activities      | 1,813,462,609  | 2,332,185,697 | 56,687,789,417   | 72,384,534,34  |  |
| Interest received from bank deposits           | 8,685,034  | 25,862,231    | 271,630,568      | 802,633,98     |  |
| Cash paid for income taxes                     | (693,139,853)  | (518,342,197) | (21,678,437,365) | (16,086,742,69 |  |
| et cash flows provided by operating activities | 1,129,007,790  | 1,839,705,731 | 35,280,982,620   | 57,100,425,63  |  |



PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

|  | Separate financial statements |                       |                  |                  |  |
|--|-------------------------------|-----------------------|------------------|------------------|--|
|  | Unit: US Dollar Unit: Ba      |                       |                  |                  |  |
|  | 2020                          | 2019                  | 2020             | 2019             |  |
| Cook flows from investing activities                   |                               |                       |                  |                  |  |
| Cash flows from investing activities                   | (400 000 000)                 | (744 750 000)         |                  | (00 440 005 000) |  |
| Cash paid for short-term investments                   | (100,000,000)                 | (744,750,000)         | (3,127,570,472)  | (23,113,305,629) |  |
| Cash received from investing in                        | 000 000 000                   | 4 007 500 000         | 0.055 440.044    | 24 070 044 405   |  |
| short-term investments                                 | 200,000,000                   | 1,007,580,338         | 6,255,140,944    | 31,270,241,405   |  |
| Cash paid for investment in other financial assets     | -                             | (36,530)              | -                | (1,133,712)      |  |
| Cash received from investment                          |                               | 40,444,000            |                  | 004 400 000      |  |
| in other financial assets                              | -                             | 10,444,330            | -                | 324,139,633      |  |
| Decrease in short-term loans to related party          | 299,588,385                   | 814,909,261           | 9,369,837,845    | 25,290,697,295   |  |
| Cash received from long-term loans to related parties  | 105,120,931                   | 205,200,000           | 3,287,731,205    | 6,368,379,074    |  |
| Cash paid for long-term loans to related parties       | (489,413,928)                 | (1,195,617,478)       | (15,306,765,502) | (37,105,971,377) |  |
| Cash paid for business acquisition                     | -                             | (71,398,811)          | -                | (2,215,861,080)  |  |
| Cash paid for investment in subsidiaries               | (157,965,757)                 | (128,691,609)         | (4,940,490,366)  | (3,993,942,255)  |  |
| Dividend received from related parties                 | 28,930,433                    | 46,175,204            | 904,819,690      | 1,433,046,808    |  |
| Cash received from lease receivables                   | 377,746                       | -                     | 11,814,281       | -                |  |
| Interest received from short-term investments          | 5,842,500                     | 9,848,587             | 182,728,305      | 305,650,754      |  |
| Interest received from loans to related parties        | 420,940,714                   | 47,953,529            | 13,165,217,467   | 1,488,237,081    |  |
| Increase in property, plant and equipment              | (295,478,913)                 | (264,756,583)         | (9,241,311,240)  | (8,216,716,749)  |  |
| Increase in intangible assets                          | (22,084,324)                  | (19,469,000)          | (690,702,802)    | (604,220,145)    |  |
| Net cash flows used in investing activities            | (4,142,213)                   | (282,608,762)         | (129,550,645)    | (8,770,758,897)  |  |
| Cook flows from financing activities                   |                               |                       |                  |                  |  |
| Cash flows from financing activities                   |                               |                       |                  | 9 056 079 675    |  |
| Cash received from short-term loan                     | -                             | 259,580,550           | -                | 8,056,078,675    |  |
| Cash paid for repayment of short-term loan             | -                             | (258,825,547)         | -                | (8,032,647,151)  |  |
| Cash paid for repayment of debentures                  | -                             | (418,199,073)         | -                | (12,978,802,274) |  |
| Cash paid for lease liabilities                        | (22,250,801)                  | (266,900)             | (695,909,452)    | (8,283,244)      |  |
| Cash paid for interest                                 | (21,388,375)                  | (32,294,311)          | (668,936,491)    | (1,002,253,461)  |  |
| Cash paid for redemption of subordinated               |                               | (4.4.5, 0.0.5, 0.0.0) |                  | (4 500 500 600)  |  |
| capital debenture                                      | -                             | (145,305,000)         | -                | (4,509,538,603)  |  |
| Interest paid for subordinated capital debenture       | (9,443,622)                   | (13,632,287)          | (295,355,957)    | (423,077,837)    |  |
| Net cash received from financial derivative contracts  | -                             | 876,960               | -                | 27,216,432       |  |
| Dividends paid   | (671,000,170)                 | (697,760,493)         | (20,986,003,196) | (21,654,986,972) |  |
| Net cash flows used in financing activities            | (724,082,968)                 | (1,305,826,101)       | (22,646,205,096) | (40,526,294,435) |  |
| Net increase in cash and cash equivalents              | 400,782,609                   | 251,270,868           | 12,505,226,879   | 7,803,372,302    |  |
| Cash and cash equivalents at the beginning of the year | 715,768,020                   | 462,093,407           | 21,583,266,339   | 14,994,853,673   |  |
| Adjustment for the impact of exchange rate changes     | 2,707,423                     | 2,403,745             | (469,265,522)    | (1,214,959,636)  |  |
| Cash and cash equivalents at the end of the year       | 1,119,258,052                 | 715,768,020           | 33,619,227,696   | 21,583,266,339   |  |
| Non-cash transactions                                  |                               |                       |                  |                  |  |
| Outstanding payable from purchases of assets           | 61,499,068                    | 35,521,871            | 1,923,426,700    | 1,102,420,752    |  |
| Changes in right-of-use assets                         | 47,374,993                    | 55,521,071            | 1,481,686,302    | 1,102,420,732    |  |
| Onanges In hynroruse assels                            | 41,514,595                    | -                     | 1,401,000,302    | -                |  |

### Notes to the Consolidated and Separate Financial Statements

PTT Exploration and Production Public Company Limited For the year ended 31 December 2020

#### 1 General information

PTT Exploration and Production Public Company Limited (the Company) is registered as a company in Thailand and listed on the Stock Exchange of Thailand. The address of its registered office is 555/1 Energy Complex Building A, 6<sup>th</sup> and 19<sup>th</sup> - 36<sup>th</sup> Floor, Vibhavadi-Rangsit Road, Chatuchak, Bangkok 10900.

For reporting purposes, the Company and its subsidiaries are together referred to as the Group.

The principal business operations of the Group are exploration and production of petroleum in Thailand and overseas, and related business associated with the Group's strategy.

These consolidated and separate financial statements were authorised for issue by the Board of Directors on 15 February 2021.

#### 2 Significant events during the current period

- Due to COVID-19 pandemic in the beginning of 2020, it resulted in a decrease in demand for oil consumption and a sharp drop in crude oil price. However, for the second half of the year 2020, the demand for consumption has increased when compare to the first half of the year 2020. The main factor was from easing of shutdown measures in many countries which leads to an increase in sales volume. Also, the overall average selling price has increased as a consequence of decrease in production capacity as a result of mutual agreement between the Organisation of Petroleum Exporting Countries and its partnership. Nevertheless, there is a decrease in selling gas price as a result of retrospectively adjustment of the selling price in accordance with the agreement (lag time). In addition, the Group's financial position is strong with sufficient liquidity from the outstanding cash and cash equivalents and short-term investments as at 31 December 2020 of US Dollar 3,804.00 million (Baht 114,261.08 million). The Group is certain that it has the ability to maintain its liquidity and sustain operations through the current oil price volatility period.
- On 30 December 2020, the Company has received an exclusive right to develop the Integrated Domestic Gas to Power Project in Myanmar and signed the Notice to Proceed with Ministry of Electricity and Energy (MOEE). The Company expects to make a Final Investment Decision (FID) of the project in 2022.



#### 3 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai Financial Reporting Standards (TFRS) and the financial reporting requirements issued under the Securities and Exchange Act.

The Company's management has determined US Dollar as the functional currency of the Company and presents the consolidated and separate financial statements in US Dollar. However, the Stock Exchange of Thailand and the Department of Business Development require the Company to present its consolidated and separate financial statements in Thai Baht, so the Company also presents its financial statements in Thai Baht by translating from US Dollar.

Where the Group has entered into joint interest operations in the Concession or the Production Sharing Contract with other parties to participate in exploration and production of petroleum businesses, the Group records its share of expenses, assets and liabilities incurred in accordance with the Statements of Expenditures prepared by the operators of the Concession or the Production Sharing Contract. The Statements of Expenditures have been audited by other independent auditors and the joint venture committee on a regular basis.

The consolidated and separate financial statements have been prepared under the historical cost convention except as disclosed in the accounting policies.

The preparation of financial statements in conformity with TFRS requires the Group's management to use certain critical accounting estimates and to exercise its judgement in applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas that are more likely to be materially adjusted due to changes in estimates and assumptions are disclosed in Note 10.

An English version of the consolidated and separate financial statements have been prepared from the statutory financial statements that are in the Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

#### 4 Reclassification

The Department of Business Development announced the notification for the minimum requirement of the content in the financial statements (No. 3) B.E. 2562 dated 26 December 2019, which impacted on the preparation of financial statements for the period beginning on or after 1 January 2020. As a result, the Group has reclassified the comparative figures presented in the statement of financial position for the year ended 31 December 2019 to comply with the Notification of the Department of Business Development as refered above, including the reclassification of the comparative figures to comply with the new financial reporting standards as disclosed in Note 5.



-

36

|  | Consolidated financial stateme |                   |              |            |                    | al statements |  |
|--|--------------------------------|-------------------|--------------|------------|--------------------|---------------|--|
|  | Unit: Million US Dollar        |                   |              |            | Unit: Million Baht |               |  |
|  | Previously                     |                   | As           | Previously |                    | As            |  |
| Statement of financial position        | reported                       | Reclassifications | reclassified | reported   | Reclassifications  | reclassified  |  |
| As at 31 December 2019                 |                                |                   |              |            |                    |               |  |
| Assets                                 |                                |                   |              |            |                    |               |  |
| Current assets                         |                                |                   |              |            |                    |               |  |
| Investments in trading securities      | 213.70                         | (213.70)          | -            | 6,444.00   | (6,444.00)         | -             |  |
| Trade and other receivables            | -                              | 983.20            | 983.20       | -          | 29,647.44          | 29,647.44     |  |
| Accounts receivable - parent company   | 534.84                         | (534.84)          | -            | 16,127.48  | (16,127.48)        | -             |  |
| Trade accounts receivable              | 258.93                         | (258.93)          | -            | 7,807.65   | (7,807.65)         | -             |  |
| Other accounts receivable              | 121.50                         | (121.50)          | -            | 3,663.73   | (3,663.73)         | -             |  |
| Inventories                            | 32.10                          | 298.24            | 330.34       | 967.79     | 8,993.17           | 9,960.96      |  |
| Materials and supplies                 | 298.24                         | (298.24)          | -            | 8,993.17   | (8,993.17)         | -             |  |
| Other current financial assets         | -                              | 213.70            | 213.70       | -          | 6,444.00           | 6,444.00      |  |
| Working capital from co-venturers      | 60.70                          | (60.70)           | -            | 1,830.47   | (1,830.47)         | -             |  |
| Accrued interests receivable           | 7.23                           | (7.23)            | -            | 218.11     | (218.11)           | -             |  |
| Other current assets - Others          | 95.47                          | (95.47)           | -            | 2,878.86   | (2,878.86)         | -             |  |
| Other current assets                   | -                              | 95.47             | 95.47        | -          | 2,878.86           | 2,878.86      |  |
| Non-current assets                     |                                |                   |              |            |                    |               |  |
| Available-for-sale investments         | 0.52                           | (0.52)            | -            | 15.81      | (15.81)            | -             |  |
| Other long-term investments            | 0.35                           | (0.35)            | -            | 10.41      | (10.41)            | -             |  |
| Other non-current financial assets     | -                              | 0.87              | 0.87         | -          | 26.22              | 26.22         |  |
| Prepaid expenses                       | 17.87                          | (17.87)           | -            | 538.89     | (538.89)           | -             |  |
| Deferred remuneration under            |                                |                   |              |            |                    |               |  |
| agreement                              | 11.30                          | (11.30)           | -            | 340.81     | (340.81)           | -             |  |
| Other non-current assets - Others      | 142.15                         | (142.15)          | -            | 4,286.16   | (4,286.16)         | -             |  |
| Other non-current assets               | -                              | 171.32            | 171.32       | -          | 5,165.86           | 5,165.86      |  |
| iabilities and equity                  |                                |                   |              |            |                    |               |  |
| Current liabilities                    |                                |                   |              |            |                    |               |  |
| Trade and other payable                | -                              | 888.93            | 888.93       | -          | 26,804.65          | 26,804.65     |  |
| Trade accounts payable                 | 107.06                         | (107.06)          | -            | 3,228.42   | (3,228.42)         | -             |  |
| Working capital to co-venturers        | 12.44                          | (12.44)           | -            | 375.12     | (375.12)           | -             |  |
| Current portion of long-term           |                                |                   |              |            |                    |               |  |
| financial liabilities                  | 18.28                          | (18.28)           | -            | 551.26     | (551.26)           | -             |  |
| Current portion of lease liabilities   | -                              | 18.28             | 18.28        | -          | 551.26             | 551.26        |  |
| Accrued expenses                       | 749.65                         | (749.65)          | -            | 22,604.82  | (22,604.82)        | -             |  |
| Accrued interests payable              | 19.78                          | (19.78)           | -            | 596.29     | (596.29)           | -             |  |
| Non-current liabilities                |                                |                   |              |            |                    |               |  |
| _ong-term loans                        | 718.67                         | (125.41)          | 593.26       | 21,670.91  | (3,781.71)         | 17,889.20     |  |
| Lease liabilities                      | -                              | 125.41            | 125.41       | -          | 3,781.71           | 3,781.71      |  |
| Deferred income                        | 5.04                           | (5.04)            | -            | 151.84     | (151.84)           | -             |  |
| Other non-current liabilities - Others | 118.80                         | (118.80)          | -            | 3,582.33   | (3,582.33)         | -             |  |
| Other non-current liabilities          | -                              | 123.84            | 123.84       | -,         | 3,734.17           | 3,734.17      |  |

|                    | Separate financia |                        |                    |                   |                        |  |
|--------------------|-------------------|------------------------|--------------------|-------------------|------------------------|--|
| Million Baht       | Unit:             |                        | on US Dollar       | Unit: Millio      |                        |  |
| As<br>reclassified | Reclassifications | Previously<br>reported | As<br>reclassified | Reclassifications | Previously<br>reported | Statement of financial position        |
|                    |                   | . opened               |                    |                   | . opened               | As at 31 December 2019                 |
|                    |                   |                        |                    |                   |                        | Assets                                 |
|                    |                   |                        |                    |                   |                        | Current assets                         |
| -                  | (6.34)            | 6.34                   | -                  | (0.21)            | 0.21                   | Investments in trading securities      |
| 21,592.97          | 21,592.97         | -                      | 716.09             | 716.09            | -                      | Trade and other receivables            |
| -                  | (10,653.92)       | 10,653.92              | -                  | (353.32)          | 353.32                 | Account receivable - parent company    |
| -                  | (35.75)           | 35.75                  | -                  | (1.19)            | 1.19                   | Trade accounts receivable              |
| -                  | (2,193.95)        | 2,193.95               | -                  | (72.76)           | 72.76                  | Other accounts receivable              |
| 3,137.76           | 2,977.04          | 160.72                 | 104.06             | 98.73             | 5.33                   | Inventories                            |
| -                  | (2,977.04)        | 2,977.04               | -                  | (98.73)           | 98.73                  | Materials and supplies                 |
| 6.34               | 6.34              | -                      | 0.21               | 0.21              | -                      | Other current financial assets         |
| -                  | (236.57)          | 236.57                 | -                  | (7.85)            | 7.85                   | Working capital from co-venturers      |
| -                  | (8,472.78)        | 8,472.78               | -                  | (280.98)          | 280.98                 | Accrued interests receivable           |
| -                  | (1,916.04)        | 1,916.04               | -                  | (63.54)           | 63.54                  | Other current assets - Others          |
| 1,916.04           | 1,916.04          | -                      | 63.54              | 63.54             | -                      | Other current assets                   |
|                    |                   |                        |                    |                   |                        | Non-current assets                     |
| -                  | (1.44)            | 1.44                   | -                  | (0.05)            | 0.05                   | Other long-term investments            |
| 1.44               | 1.44              | -                      | 0.05               | 0.05              | -                      | Other non-current financial assets     |
|                    |                   |                        |                    |                   |                        | Deferred remuneration under            |
| -                  | (340.81)          | 340.81                 | -                  | (11.30)           | 11.30                  | agreement                              |
| -                  | (352.03)          | 352.03                 | -                  | (11.68)           | 11.68                  | Other non-current assets - Others      |
| 692.84             | 692.84            | -                      | 22.98              | 22.98             | -                      | Other non-current assets               |
|                    |                   |                        |                    |                   |                        | Liabilities and equity                 |
|                    |                   |                        |                    |                   |                        | Current liabilities                    |
| 9,453.54           | 9,453.54          | -                      | 313.51             | 313.51            | -                      | Trade and other payable                |
| -                  | (707.85)          | 707.85                 | -                  | (23.48)           | 23.48                  | Trade accounts payable                 |
| -                  | (34.54)           | 34.54                  | -                  | (1.15)            | 1.15                   | Working capital to co-venturers        |
|                    |                   |                        |                    |                   |                        | Current portion of long-term           |
| -                  | (9.00)            | 9.00                   | -                  | (0.30)            | 0.30                   | liabilities                            |
| 9.00               | 9.00              | -                      | 0.30               | 0.30              | -                      | Current portion of lease liabilities   |
| -                  | (8,618.75)        | 8,618.75               | -                  | (285.82)          | 285.82                 | Accrued expenses                       |
| -                  | (92.40)           | 92.40                  | -                  | (3.06)            | 3.06                   | Accrued interests payable              |
|                    |                   |                        |                    |                   |                        | Non-current liabilities                |
| -                  | (22.98)           | 22.98                  | -                  | (0.76)            | 0.76                   | Long-term loans                        |
| 22.98              | 22.98             | -                      | 0.76               | 0.76              | -                      | Lease liabilities                      |
| -                  | (91.81)           | 91.81                  | -                  | (3.05)            | 3.05                   | Deferred income                        |
| -                  | (762.35)          | 762.35                 | -                  | (25.28)           | 25.28                  | Other non-current liabilities - Others |
| 854.16             | 854.16            | _                      | 28.33              | 28.33             |                        | Other non-current liabilities          |

## 5 New and amended financial reporting standards

# 5.1 New financial reporting standards that are effective for accounting period beginning on or after 1 January 2020 and have significant impacts to the Group

#### a) Financial instruments

The new financial standards related to financial instruments are as follows:

| Financial instruments: Presentation                         |
|---|
| Financial instruments: Disclosures                          |
| Financial instruments                                       |
| Hedges of a net investment in a foreign operation           |
| Extinguishing financial liabilities with equity instruments |
|   |

The new financial reporting standards related to financial instruments introduce new classification and measurement requirements for financial instruments as well as provide derecognition guidance on financial assets and financial liabilities. The new guidance also provides an option for the Group to apply hedge accounting to reduce accounting mismatch between hedged item and hedging instrument. In addition, the new rule provides detailed guidance on financial instruments issued by the Group whether it is a liability or an equity and requires extensive details disclosure on financial instruments and related risks.

The new classification requirements of financial assets require the Group to assess both i) business model for holding the financial assets; and ii) cash flow characteristics of the asset whether the contractual cash flows represent solely payments of principal and interest (Solely Payments of Principal and Interest: SPPI). The classification affects the financial assets' measurement. The new guidance requires assessment of impairment of financial assets and recognition of expected credit loss from initial recognition.

On 1 January 2020, the Group has adopted the financial reporting standards related to financial instruments in its financial statements. However, the Group applied the accounting policy relating to financial instruments for the reporting period before 1 January 2020. Therefore, the impact from the adoption of these financial standards related to financial instruments will affect to classification of financial liabilities and equity, classification and measurement of investments in equity instruments (previously classified as other long-term investments) as well as classification and measurement. The impact from the adoption has been disclosed in Note 6.

## b) TFRS 16, Leases

Where the Group is a lessee, TFRS 16, Leases will result in almost all leases being recognised on the balance sheet as the distinction between operating and finance leases is removed. A right-of-use asset and a lease liability will be recognised, with exception on short-term and low-value leases.

On 1 January 2020, the Group has adopted the new lease standard in its financial statements. The impact from the adoption has been disclosed in Note 6.

- a) Revised Conceptual Framework for Financial Reporting added the following key principals and guidance:
  - · Measurement basis, including factors in considering difference measurement basis
  - Presentation and disclosure, including classification of income and expenses in other comprehensive income
  - Definition of a reporting entity, which maybe a legal entity, or a portion of an entity
  - Derecognition of assets and liabilities

The amendment also includes the revision to the definition and the basis in grouping of an asset and liability in the financial statements. In addition, it clarifies the objectivity of the management and procuring the economic resources of the Group, conservatism principle and uncertainty of measurement basis in the financial reporting.

- b) Amendment to TFRS 3, Business combinations amended the definition of a business which requires an acquisition to include an input and a substantive process that together contribute to the ability to significantly create outputs. The definition of the term 'outputs' is amended to focus on goods and services provided to customers and to exclude the reference to the ability to reduce cost from the definition.
- c) Amendment to TFRS 9, Financial instruments and TFRS 7, Financial instruments: disclosures amended to provide a relief from applying specific hedge accounting requirements to the uncertainty arising from interest rate benchmark reform such as Interbank offer rates -IBORs. The amendment also requires the disclosure of hedging relationships directly affected by the uncertainty.
- d) Amendment to TAS 1, Presentation of financial statements and TAS 8, Accounting policies, changes in accounting estimates and errors amended the definition of materiality and make it consistant on both the Thai Financial Reporting Standards and the Conceptual Framework for Financial Reporting. It also clarified when information is material and incorporates some of the guidance in TAS 1 about immaterial information.

## 6 Impacts from initial application of the new financial reporting standards

The Group has adopted new financial reporting standard relating to financial instruments (TAS 32, TFRS 7 and TFRS 9) and lease standard (TFRS16) from 1 January 2020 by applying the modified retrospective approach from 1 January 2020. Additionally, the comparative figures have not been restated which is a applicable method in accordance to those accounting policies. The adjustments and the reclassifications arising from the changes in accounting policies were therefore recognised in the statement of financial position as of 1 January 2020.

The impact of first-time adoption of new financial reporting standards relating to financial instruments (TAS 32 and TFRS 9) and leases (TFRS 16) as follows:

|                                      |                     |             |             | ancial statements<br>Million US Dollar |
|--------------------------------------|---------------------|-------------|-------------|--|
|                                      | As at               | TAS 32 and  | Unit:       | As at                                  |
|                                      | 31 December 2019    | TFRS 9      | TFRS 16     | 1 January 2020                         |
|                                      | Previously reported | Adjustments | Adjustments | After adjusted                         |
| Assets                               |                     |             |             |  |
| Current assets                       |                     |             |             |  |
| Trade and other receivables          | 983.20              | -           | 0.18        | 983.38                                 |
| Non-current assets                   |                     |             |             |  |
| Investments in associates            | 227.63              | 22.71       | -           | 250.34                                 |
| Property, plant and equipment        | 10,661.98           | -           | (122.43)    | 10,539.55                              |
| Right-of-use assets                  | -                   | -           | 495.58      | 495.58                                 |
| Intangible assets                    | 131.97              | -           | (4.85)      | 127.12                                 |
| Other non-current assets             | 171.32              | -           | (6.71)      | 164.61                                 |
| Liabilities and equity               |                     |             |             |  |
| Current liabilities                  |                     |             |             |  |
| Current portion of lease liabilities |                     |             |             |  |
| due within one year                  | 18.28               | -           | 83.32       | 101.60                                 |
| Non-current liabilities              |                     |             |             |  |
| Lease liabilities                    | 125.41              | -           | 278.45      | 403.86                                 |
| Equity                               |                     |             |             |  |
| Other components of equity           | (12.94)             | 22.71       | -           | 9.77                                   |
|                                      |                     |             |             |  |

|                                      |                     |             |             | ancial statements  |
|--------------------------------------|---------------------|-------------|-------------|--------------------|
|                                      |                     |             |             | Unit: Million Baht |
|                                      | As at               | TAS 32 and  | 7550 (0     | As at              |
|                                      | 31 December 2019    | TFRS 9      | TFRS 16     | 1 January 2020     |
|                                      | Previously reported | Adjustments | Adjustments | After adjusted     |
| Assets                               |                     |             |             |                    |
| Current assets                       |                     |             |             |                    |
| Trade and other receivables          | 29,647.44           | -           | 5.54        | 29,652.98          |
| Non-current assets                   |                     |             |             |                    |
| Investments in associates            | 6,863.84            | 684.78      | -           | 7,548.62           |
| Property, plant and equipment        | 321,501.44          | -           | (3,691.76)  | 317,809.68         |
| Right-of-use assets                  | -                   | -           | 14,943.68   | 14,943.68          |
| Intangible assets                    | 3,979.61            | -           | (146.41)    | 3,833.20           |
| Other non-current assets             | 5,165.86            | -           | (202.29)    | 4,963.57           |
| Liabilities and equity               |                     |             |             |                    |
| Current liabilities                  |                     |             |             |                    |
| Current portion of lease liabilities |                     |             |             |                    |
| due within one year                  | 551.26              | -           | 2,512.29    | 3,063.55           |
| Non-current liabilities              |                     |             |             |                    |
| Lease liabilities                    | 3,781.72            | -           | 8,396.47    | 12,178.19          |
| Equity                               |                     |             |             |                    |
| Other components of equity           | (22,794.18)         | 684.78      | -           | (22,109.40)        |
|                                      |                     |             |             |                    |

| 41 |
|----|
|----|

|   |   |                                     | Separate fina                                       | ancial statements  |
|---|---|-------------------------------------|---|--|
|   |   |                                     | •   | Million US Dollar  |
|   | As at<br>31 December 2019<br>Previously<br>reported                     | TAS 32 and<br>TFRS 9<br>Adjustments | TFRS 16<br>Adjustments                              | As at<br>1 January<br>2020<br>After adjusted   |
| Assets  |   |                                     |   |  |
|   |   |                                     |   |  |
| Current assets<br>Trade and other receivables   | 716.09  | -                                   | 0.18  | 716.27   |
| <b>Non-current assets</b><br>Property, plant and equipment<br>Right-of-use assets<br>Other non-current assets   | 3,305.87<br>-<br>22.98  | -<br>-<br>-                         | (0.97)<br>31.42<br>(0.62)                           | 3,304.90<br>31.42<br>22.36   |
| Liabilities and equity  |   |                                     |   |  |
| Current liabilities<br>Current portion of lease liabilities<br>due within one year  | 0.30  | -                                   | 17.06   | 17.36  |
| Non-current liabilities<br>Lease liabilities  | 0.76  | -                                   | 12.95   | 13.71  |
|   |   |                                     |   |  |
|   |   |                                     | Separate fina                                       | ancial statements  |
|   |   |                                     |   | ancial statements<br>Unit: Million Baht  |
|   | As at<br>31 December<br>2019<br>Previously<br>reported                  | TAS 32 and<br>TFRS 9<br>Adjustments |   |  |
| Assets  | 31 December<br>2019<br>Previously                                       | TFRS 9                              | TFRS 16   | <u>Unit: Million Baht</u><br>As at<br>1 January<br>2020  |
| Assets<br>Current assets<br>Trade and other receivables   | 31 December<br>2019<br>Previously                                       | TFRS 9                              | TFRS 16   | <u>Unit: Million Baht</u><br>As at<br>1 January<br>2020  |
| Current assets  | 31 December<br>2019<br>Previously<br>reported                           | TFRS 9                              | TFRS 16<br>Adjustments                              | Unit: Million Baht<br>As at<br>1 January<br>2020<br>After adjusted                                     |
| Current assets<br>Trade and other receivables<br>Non-current assets<br>Property, plant and equipment<br>Right-of-use assets                             | 31 December<br>2019<br>Previously<br>reported<br>21,592.97<br>99,685.10 | TFRS 9                              | TFRS 16<br>Adjustments<br>5.54<br>(29.28)<br>947.37 | Unit: Million Baht<br>As at<br>1 January<br>2020<br>After adjusted<br>21,598.51<br>99,655.82<br>947.37 |
| Current assets<br>Trade and other receivables<br>Non-current assets<br>Property, plant and equipment<br>Right-of-use assets<br>Other non-current assets | 31 December<br>2019<br>Previously<br>reported<br>21,592.97<br>99,685.10 | TFRS 9                              | TFRS 16<br>Adjustments<br>5.54<br>(29.28)<br>947.37 | Unit: Million Baht<br>As at<br>1 January<br>2020<br>After adjusted<br>21,598.51<br>99,655.82<br>947.37 |

# 6.1 Impact of new financial reporting standards relating to financial instruments (TAS 32, TFRS 7 and TFRS 9)

The Group has adopted the new financial reporting standards relating to financial instruments other than the accounting policy relating to financial instruments as disclosed in the financial statements for the year ended 31 December 2019, from 1 January 2020. The Group recognised the cumulative impacts on the date of initial application to the brought forward retained earnings (modified retrospective).

The adoption of the new financial reporting standards on financial instruments mainly affects the Group's accounting treatment as follows:

## Classification of financial liabilities and equity

As at 1 January 2020, the Group has subordinated capital debentures which are classified as equity in the consolidated financial statements in the amount of US Dollar 187.43 million (Baht 6.018.03 million) and separate financial statements in the amount of US Dollar 156.57 million (Baht 4.981.99 million). The Group has considered that the subordinated capital debentures will be settled upon the winding-up of the issuing company or as per the redemption rights as stipulated in the debentures' term and condition. The issuer may elect to defer the payment of a distribution at its sole discretion without any limit as to the number of times. The deferred distributions will be accumulated but will not bear additional interest. However, in accordance with TAS 32, Financial instruments: Presentation, which is effective in the period, there are certain conditions in the indenture of subordinated capital debentures, which stated in case the court orders the issuer for restructuring, it can be interpreted as the debentures' holders will have the right to redeem the debentures prior to the liquidation, as such, the subordinated capital debentures has to be classified as financial liabilities. However, in accordance with an announcement issued by the Thailand Federation of Accounting Professions (TFAC) no. 95/2562, it allows the classification of the subordinated capital debentures which was issued and paid-up before 31 December 2019 to be presented as equity. The relief is granted until 31 December 2022 or when the Group has changed the conditions in the indenture to conform with equity classification in accordance with TAS 32, Financial instruments: Presentation.

# Classification and measurement of investments in equity instruments (previously classified as other long-term investments)

As at 1 January 2020, the Group has equity instruments measured at cost in the amount of US Dollar 0.35 million (Baht 10.41 million) and equity instruments measured at cost through investment in associate in the amount of US Dollar 149.03 million (Baht 4,493.70 million) and classified as other non-current financial assets and investments in associates, respectively. These equity instruments will be measured at fair value through other comprehensive income (FVOCI) in accordance with the new financial reporting standards. On 1 January 2020, the Group recognised a corresponding fair value adjustment of US Dollar 22.71 million (Baht 684.78 million) to other components of equity.

The fair value measurement of the investment was classified as level 3.



## Classification and measurement

On 1 January 2020 (the date of initial application), the Group's management has assessed the business models to be applied to the financial assets and financial liabilities, and has classified the financial assets and liabilities as below.

|  |  | Cons                   | solidated financia | al statements |
|--|--|------------------------|--------------------|---------------|
|  |  |                        | Unit: Milli        | on US Dollar  |
|  |  | Classification         |                    |               |
|  |  | and                    |                    |               |
|  | Classification and                             | measurement            | Carrying           | Carrying      |
|  | measurement                                    | under                  | amounts            | amounts       |
|  | under TAS 105                                  | TFRS 9                 | TAS 105            | TFRS 9        |
| Current financial assets   |  |                        |                    |               |
| Cash and cash equivalents  | Amortised cost                                 | Amortised cost         | 2,822.90           | 2,822.90      |
| Short-term investments   | Held-to-maturity                               | Amortised cost         | 200.00             | 200.00        |
| Trade and other receivables  | Amortised cost                                 | Amortised cost         | 983.20             | 983.20        |
| Derivative assets  | Fair value through<br>profit or loss<br>(FVPL) | FVPL                   | 12.34              | 12.34         |
| Other current financial assets   | FVPL   | FVPL                   | 213.70             | 213.70        |
| Other current assets   | Amortised cost                                 | Amortised cost         | 40.19              | 40.19         |
| Non-current financial assets   |  |                        |                    |               |
| Long-term loans to related parties   | Amortised cost                                 | Amortised cost         | 86.06              | 86.06         |
| Derivative assets  | FVPL   | FVPL                   | 83.68              | 83.68         |
|  | - Hedge<br>derivatives                         | - Hedge<br>derivatives |                    |               |
| Other non-current financial assets   |  |                        |                    |               |
| - Available for sale investments   | Available for sale                             | FVOCI                  | 0.52               | 0.52          |
| - Other long term investments  | Cost less<br>impairment                        | FVOCI                  | 0.35               | 0.35          |
| Other non-current assets   |  |                        |                    |               |
| <ul> <li>Pension scheme investments from</li> </ul>  |  |                        |                    |               |
| joint operation  | FVPL   | FVPL                   | 44.88              | 44.88         |
| - Others   | Amortised cost                                 | Amortised cost         | 60.11              | 60.11         |
| Current financial liabilities  |  |                        |                    |               |
| Trade and other payables   | Amortised cost                                 | Amortised cost         | 888.93             | 888.93        |
| Derivative liabilities   | FVPL   | FVPL                   | 15.21              | 15.21         |
| Other current liabilities  | Amortised cost                                 | Amortised cost         | 66.03              | 66.03         |
| Non-current financial liabilities  |  |                        |                    |               |
| Debentures   | Amortised cost                                 | Amortised cost         | 2,704.75           | 2,704.75      |
| Long-term loans  | Amortised cost                                 | Amortised cost         | 593.26             | 593.26        |
| Other non-current liabilities  |  |                        |                    |               |
| <ul> <li>Contingent considerations from business<br/>acquisition</li> </ul>                                      | FVPL   | FVPL                   | 7.10               | 7.10          |
| <ul> <li>Contingent considerations from<br/>participating interest acquisition in<br/>a joint venture</li> </ul> | FVPL   | FVPL                   | 51.98              | 51.98         |
| - Others   | Amortised cost                                 | Amortised cost         | 0.30               | 0.30          |

|   | Consolidated financial statements                     |   |                                |                               |
|---|---|---|--------------------------------|-------------------------------|
|   |   |   |                                | : Million Baht                |
|   | Classification and<br>measurement<br>under<br>TAS 105 | Classification<br>and<br>measurement<br>under<br>TFRS 9 | Carrying<br>amounts<br>TAS 105 | Carrying<br>amounts<br>TFRS 9 |
|   |   |   |                                |                               |
| Current financial assets                                  |   | A   | 05 404 04                      | 05 404 04                     |
| Cash and cash equivalents                                 | Amortised cost  | Amortised cost<br>Amortised cost                        | 85,121.64                      | 85,121.64                     |
| Short-term investments<br>Trade and other receivables     | Held-to-maturity<br>Amortised cost                    | Amortised cost  | 6,030.80<br>29,647.44          | 6,030.80<br>29,647.44         |
| Derivative assets   | FVPI  | FVPL  | 29,047.44<br>372.16            | 29,047.44<br>372.16           |
| Other current financial assets                            | FVPL  | FVPL  | 6,444.00                       | 6,444.00                      |
| Other current assets                                      | Amortised cost  | Amortised cost  | 1,211.75                       | 1,211.75                      |
| Other Current assets                                      | Amonised cost   | Amoniseu cosi   | 1,211.75                       | 1,211.75                      |
|   |   |   |                                |                               |
| Non-current financial assets                              |   |   |                                |                               |
| Long-term loans to related parties                        | Amortised cost  | Amortised cost  | 2,594.92                       | 2,594.92                      |
| Derivative assets   | FVPL  | FVPL  | 2,523.21                       | 2,523.21                      |
|   | - Hedge   | - Hedge   |                                |                               |
|   | derivatives   | derivatives   |                                |                               |
| Other non-current financial assets                        | Austickle for sole                                    |   | 15.01                          | 15.01                         |
| - Available for sale investments                          | Available for sale                                    | FVOCI   | 15.81<br>10.41                 | 15.81<br>10.41                |
| - Other long term investments                             | Cost less<br>impairment                               | FVOCI   | 10.41                          | 10.41                         |
| Other non-current assets                                  | inpaintent  |   |                                |                               |
| - Pension scheme investments from joint                   | FVPL  | FVPL  | 1,353.50                       | 1,353.50                      |
| operation   |   |   | .,                             | .,                            |
| - Others  | Amortised cost  | Amortised cost  | 1,812.43                       | 1,812.43                      |
| Current financial liabilities                             |   |   |                                |                               |
| Current financial liabilities<br>Trade and other payables | Amortised cost  | Amortised cost  | 26,804.65                      | 26,804.65                     |
| Derivative liabilities                                    | FVPL  | FVPL  | 458.76                         | 458.76                        |
| Other current liabilities                                 | Amortised cost  | Amortised cost  | 1,991.13                       | 1,991.13                      |
|   | Amoniscu cost   | Amoniscu cost   | 1,001.10                       | 1,001.10                      |
| Non-current financial liabilities                         |   |   |                                |                               |
| Debentures  | Amortised cost  | Amortised cost  | 81,558.91                      | 81,558.91                     |
| Long-term loans   | Amortised cost  | Amortised cost  | 17,889.20                      | 17,889.20                     |
| Other non-current liabilities                             |   |   |                                |                               |
| - Contingent considerations from business                 | FVPL  | FVPL  | 213.94                         | 213.94                        |
| acquisition   |   |   | 4 500 04                       | 4 500 0 /                     |
| - Contingent considerations from                          | FVPL  | FVPL  | 1,563.84                       | 1,563.84                      |
| participating interest acquisition in                     |   |   |                                |                               |
| a joint venture<br>- Others                               | Amortised cost  | Amortised cost  | 8.93                           | 8.93                          |
|   | Amonised Cost   | Amoniseu cost   | 0.93                           | 0.93                          |

| Separate financial statements<br>Unit: Million US Dollar<br>measurement<br>Casy and cash equivalents<br>Short-term investments         Current financial statements           Current financial assets         Amortised cost         Amortised cost         715.77         715.77           Short-term investments         Amortised cost         Amortised cost         716.99         716.09         716.09           Short-term investments         Held-to-maturity         Amortised cost         362.00         382.00           Other financial assets         Amortised cost         Amortised cost         362.00         382.00           Other rournent financial assets         FVPL         FVPL         0.25         0.25           Other current financial assets         Amortised cost         Amortised cost         37.04         37.04           Non-current financial assets         Amortised cost         Amortised cost         4.61.03         6.410.31           Other non-current financial assets         FVPL         FVPL         6.410.31         6.410.31           Other non-current financial assets         Amortised cost         Amortised cost         4.98         4.98           Current financial assets         Amortised cost         Amortised cost         3.10         3.10         3.10           Derivative isolitities  |  |                    |                |                |                |        |
|---|--|--------------------|----------------|----------------|----------------|--------|
| Classification and<br>measurement<br>under         Carrying<br>categories<br>TRS 9         Carrying<br>camounts<br>TAS 105         Carrying<br>measurement<br>trAS 105         Carrying<br>TRS 9         Carrying<br>trAS 105         Carrying<br>mounts<br>trAS 105         Carrying<br>trAS 105         Carrying<br>trA   |  |                    |                |                |                |        |
| measurement<br>under<br>zaß 105         Carrying<br>TAS 105         Carrying<br>mounts<br>TAS 105         Carrying<br>mounts         Carrying<br>mounts <th></th> <th>Closeification and</th> <th></th> <th>Unit: Mil</th> <th>lion US Dollar</th>   |  | Closeification and |                | Unit: Mil      | lion US Dollar |        |
| under tras 105amountsamountsTAS 105TRS 9Current financial assetsCash and cash equivalentsShort-term loans to a related partyAmortised costAmortised cost715.77716.09Short-term loans to a related partyAmortised costAmortised cost322.00322.00Other rancial derivativesFVPLFVPL0.210.21Other current financial assetsAmortised costAmortised cost37.0437.04Non-current financial assetsAmortised costAmortised cost6.410.316.410.31Derivative assetsAmortised costAmortised cost6.410.316.410.31Derivative assetsAmortised costAmortised cost6.410.316.410.31Other non-current financial assetsAmortised costAmortised cost4.384.38Current financial labilitiesAmortised costAmortised cost313.51313.51Trade and other payablesAmortised costAmortised cost317.76377.76Derivative labilitiesAmortised costAmortised cost377.76377.76Non-current financial assetsAmortised costAmortised cost377.76377.76Classification and mass enclated partyMarotised cost377.76377.76Derivative labilitiesAmortised costAmortised cost377.76377.76Separate financial assetsDerivative labilitiesAmortised cost <th></th> <th></th> <th>Mossuramont</th> <th>Carrying</th> <th>Carrying</th>   |  |                    | Mossuramont    | Carrying       | Carrying       |        |
| TAS 105TRS 9TAS 105TRS 9Current financial assets<br>Cash and cash equivalents<br>Short-tern loss to a related party<br>Other dimension assetsAmortised costAmortised cost715.77Short-tern loss<br>Other current financial assetsAmortised costAmortised cost716.09716.09Current financial assetsFVPLFVPL0.250.25Long-tern loans to related parties<br>Derivative assetsAmortised cost37.0437.04Non-current financial assetsAmortised costAmortised cost37.0437.04Long-tern loans to related parties<br>Derivative assetsAmortised costAmortised cost6.410.316.410.31Other ourrent financial assetsAmortised costAmortised cost4.984.98Current financial lassetsCost less<br>FVPLFVPL6.41064.10Other non-current financial assetsCost less<br>FVPLFVPL6.410.316.410.31Other non-current financial assetsAmortised costAmortised cost4.984.98Current financial liabilities<br>Derivative liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilities<br>Detrivative liabilitiesAmortised costAmortised cost3.77.76377.76DetroturesAmortised costAmortised cost3.77.76377.76377.76Current financial assetsAmortised costAmortised cost3.79.97.76377.76Current financial assetsAmortised costAmortised cost3.79.97.7   |  |                    |                |                |                |        |
| Cash and cash equivalents<br>Short-term investments<br>Trade and other receivables<br>Amortised costAmortised cost715.77715.77Short-term investments<br>Trade and other receivables<br>Other financial derivatives<br>Other financial assetsAmortised costAmortised cost320.00200.00Short-term loans to a related party<br>Other financial assetsFVPLFVPL0.250.25Other current financial assetsFVPLFVPL0.210.21Long-term loans to related parties<br>Derivative assetsAmortised costAmortised cost6.410.31Other non-current financial assetsAmortised cost6.410.316.410.31Derivative assetsFVPLFVPL6.41064.10Other non-current financial assetsCost less<br>impairmentFVPLFVPL6.410.31Other non-current financial assetsAmortised costAmortised cost4.984.98Current financial liabilities<br>Derivative liabilitiesAmortised costAmortised cost3.13.51313.51Derivative liabilitiesAmortised costAmortised cost3.7.76377.76Non-current financial liabilitiesAmortised costAmortised cost3.7.76377.76DebenturesAmortised costAmortised cost3.103.10Non-current financial assetsAmortised costAmortised cost3.103.10Non-current financial assetsAmortised costAmortised cost3.7.76377.76Short-term investments<br>Tade and other receivablesAmortised costAmortised c  |  |                    | -              |                |                |        |
| Cash and cash equivalents<br>Short-term investments<br>Trade and other receivables<br>Amortised costAmortised cost715.77715.77Short-term investments<br>Trade and other receivables<br>Other financial derivatives<br>Other financial assetsAmortised costAmortised cost320.00200.00Short-term loans to a related party<br>Other financial assetsFVPLFVPL0.250.25Other current financial assetsFVPLFVPL0.210.21Long-term loans to related parties<br>Derivative assetsAmortised costAmortised cost6.410.31Other non-current financial assetsAmortised cost6.410.316.410.31Derivative assetsFVPLFVPL6.41064.10Other non-current financial assetsCost less<br>impairmentFVPLFVPL6.410.31Other non-current financial assetsAmortised costAmortised cost4.984.98Current financial liabilities<br>Derivative liabilitiesAmortised costAmortised cost3.13.51313.51Derivative liabilitiesAmortised costAmortised cost3.7.76377.76Non-current financial liabilitiesAmortised costAmortised cost3.7.76377.76DebenturesAmortised costAmortised cost3.103.10Non-current financial assetsAmortised costAmortised cost3.103.10Non-current financial assetsAmortised costAmortised cost3.7.76377.76Short-term investments<br>Tade and other receivablesAmortised costAmortised c  | Current financial assets   |                    |                |                |                |        |
| Short-term investments Held-to-maturity Amorised cost 20.00 20.00 20.00 Other and other receivables Amorised cost Amorised cost 716.09 716.09 716.09 Amorised cost Amorised cost 716.09 716.09 716.09 Other current financial assets FVPL FVPL 0.25 0.25 Other current financial assets FVPL FVPL 0.21 0.21 0.21 Other current assets Amorised cost Amorised cost 37.04 37.04 37.04 Cost PVPL FVPL 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21  |  | Amortised cost     | Amortised cost | 715 77         | 715 77         |        |
| Trade and other receivables       Amortised cost       Amortised cost       716.09       716.09         Short-term loans to a related party       Amortised cost       Amortised cost       362.00       362.00         Other current financial assets       FVPL       FVPL       0.25       0.25         Other current financial assets       Amortised cost       Amortised cost       370.4       37.04         Non-current financial assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Derivative assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Other non-current financial assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Other non-current financial assets       Amortised cost       Amortised cost       4,98       4,98         Current financial liabilities       Amortised cost       Amortised cost       313.51       313.51         Derivative iabilities       Amortised cost       Amortised cost       313.01       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       377.76       377.76         Detentures       Amortised cost       Amortised cost       30.03       3.10       3.10         Non-current financial   | •  |                    |                |                |                |        |
| Short-term loans to a related party<br>Other financial derivatives       Amortised cost       Amortised cost       362.00       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.04       37.35       313.51       313.51       313.51       313.51       313.51       313.01       310  |  |                    |                |                |                |        |
| Other financial derivatives       FVPL       FVPL       0.25       0.25         Other current financial assets       FVPL       FVPL       0.21       0.21         Non-current financial assets       Amortised cost       Amortised cost       37.04       37.04         Non-current financial assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Derivative assets       Other non-current financial assets       Cost less       FVPL       FVPL       64.10         Other non-current financial assets       Cost less       FVOCI       0.05       0.05         Other non-current assets       Amortised cost       Amortised cost       313.51       313.51         Derivative liabilities       Amortised cost       Amortised cost       3.10       3.10         Other unrent liabilities       Amortised cost       Amortised cost       377.76       377.76         Other unrent liabilities       Amortised cost       Amortised cost       3.10       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       377.76       377.76         Debentures       Amortised cost       Amortised cost       21,583.27       21,583.27       21,583.27         Short-term investments       <   | Short-term loans to a related party  |                    |                |                |                |        |
| Other current assets       Amortised cost       Amortised cost       37.04       37.04         Non-current financial assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Derivative assets       FVPL       FVPL       64.10       64.10         Other non-current financial assets       Cost less       FVOCI       0.05       0.05         Other non-current assets       Amortised cost       Amortised cost       4.98       4.98         Current financial liabilities       Amortised cost       Amortised cost       313.51       313.51         Derivative liabilities       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       3.77.76       377.76         Non-current financial liabilities       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       377.76       377.76         Debentures       Amortised cost       Amortised cost       21,583.27       21,583.27       21,583.27         Classification and measurement financial assets       Amortised cost       Amortised cost       Amortised cost       10,915.76       10,915.76 <td< td=""><td></td><td>FVPL</td><td></td><td>0.25</td><td></td></td<>  |  | FVPL               |                | 0.25           |                |        |
| Non-current financial assets       Amortised cost       Amortised cost       6,410.31       6,410.31         Derivative assets       FVPL       FVPL       64.10       64.10         Other non-current financial assets       Cost less       FVOCI       0.05       0.05         Other non-current seets       Amortised cost       Amortised cost       4.98       4.98         Current financial liabilities       Amortised cost       Amortised cost       313.51       313.51         Derivative liabilities       Amortised cost       Amortised cost       3.10       3.10         Other current financial liabilities       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       3.77.76       377.76         Dehentures       Amortised cost       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       3.77.76       377.76         Classification and measurement       mageurement       measurement       Carrying amounts       amounts         Classification and measurement       Classification and measurement       Carrying amounts       Amortised cost       6.030.80       6.030.80       6.030  | Other current financial assets   | FVPL               | FVPL           | 0.21           | 0.21           |        |
| Long-term loans to related parties<br>Derivative assetsAmortised cost<br>FVPLAmortised cost<br>FVPL6,410.31<br>64.106,410.31<br>64.10Other non-current financial assetsCost less<br>impairmentFVPL64.1064.10Other non-current sestsCost less<br>impairmentFVPL0.050.05Other non-current financial liabilitiesAmortised costAmortised cost4.984.98Current financial liabilitiesAmortised costAmortised cost313.51313.51Derivative liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost377.76377.76DebenturesAmortised costAmortised cost377.76377.76Non-current financial liabilitiesAmortised costAmortised cost377.76377.76DebenturesAmortised costAmortised cost377.76377.76Current financial assetsAmortised costAmortised cost377.76377.76Current financial assetsAmortised costAmortised cost21,583.2721,583.27Current financial assetsAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cos  | Other current assets   | Amortised cost     | Amortised cost | 37.04          | 37.04          |        |
| Long-term loans to related parties<br>Derivative assetsAmortised cost<br>FVPLAmortised cost<br>FVPL6,410.31<br>64.106,410.31<br>64.10Other non-current financial assetsCost less<br>impairmentFVPL64.1064.10Other non-current sestsCost less<br>impairmentFVPL0.050.05Other non-current financial liabilitiesAmortised costAmortised cost4.984.98Current financial liabilitiesAmortised costAmortised cost313.51313.51Derivative liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost377.76377.76DebenturesAmortised costAmortised cost377.76377.76Non-current financial liabilitiesAmortised costAmortised cost377.76377.76DebenturesAmortised costAmortised cost377.76377.76Current financial assetsAmortised costAmortised cost377.76377.76Current financial assetsAmortised costAmortised cost21,583.2721,583.27Current financial assetsAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term investments<br>Trade and other receivablesAmortised costAmortised cos  |  |                    |                |                |                |        |
| Derivative assets       FVPL       FVPL       64.10       64.10         Other non-current financial assets       Cost less       FVOCI       0.05       0.05         Other non-current assets       Cost less       FVOCI       0.05       0.05         Other non-current financial liabilities       Amortised cost       Amortised cost       4.98       4.98         Current financial liabilities       Amortised cost       Amortised cost       313.51       313.51         Derivative liabilities       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       377.76       377.76         Debentures       Amortised cost       Amortised cost       377.76       377.76       377.76         Classification and measurement rancial statements       Classification and measurement rancial statements       amounts amotised cost 10.  |  | Amorticod cost     | Amortised cost | 6 410 31       | 6 /10 21       |        |
| - Hedge       - Hedge       - Hedge         Other non-current financial assets       - Hedge       - Hedge         Other non-current sests       Amortised cost       Anortised cost       4.98       4.98         Current financial liabilities       Amortised cost       Amortised cost       4.98       4.98         Current financial liabilities       Amortised cost       Amortised cost       313.51       313.51         Derivative liabilities       Amortised cost       Amortised cost       3.10       3.10         Non-current financial liabilities       Amortised cost       Amortised cost       3.77.76       377.76         Debentures       Amortised cost       Amortised cost       3.77.76       377.76       377.76         Classification and measurement under amounts       amortised cost       Amortised cost       3.10       3.10         Classification and measurement ration and measurement under amounts       amounts       amounts       3.10         Short-term investments       Amortised cost       Amortised cost       21,583.27       21,583.27         Short-term loans to a related party       Amortised cost       Amortised cost       21,592.97       21,592.97         Short-term loans to a related party       Amortised cost       Amortised cost       1,0,915.76   | <b>o</b>   |                    |                |                |                |        |
| Other non-current financial assetsderivatives<br>Cost lessFVOCI0.050.05Other non-current assetsAmortised costAmortised cost4.984.98Current financial liabilitiesAmortised costAmortised cost313.51313.51Derivative liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost3.77.76377.76DebenturesAmortised costAmortised cost3.77.76377.76Classification<br>underClassification<br>underCarrying<br>amounts<br>amounts<br>amountsCarrying<br>amounts<br>amountsCurrent financial assetsAmortised costAmortised cost21,583.2721,583.27Cash and cash equivalents<br>Short-term investmentsAmortised costAmortised cost21,592.9721,592.97Short-term investmentsAmortised costAmortised cost10,915.7610,915.76Derivatives assetsFVPLFVPL7.637.63Current financial assetsFVPLFVPL6.346.34Other current financial assetsFVPLFVPL193,296.37193,296.37Derivatives assetsAmortised costAmortised cost1,93.2751,932.75PVPLFVPLFVPLFVPL1,932.751,932.75Derivative assetsAmortised costAmortised cost1,116.781,116.78Current fina   | Derivative assets  | =                  |                | 04.10          | 04.10          |        |
| Other non-current financial assetsCost less<br>impairmentFVOCI0.050.05Other non-current assetsAmortised costAmortised cost4.984.98Current financial liabilities<br>Derivative liabilitiesAmortised costAmortised cost313.51313.51Derivative liabilities<br>DebenturesFVPLFVPL12.0312.03Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Classification and<br>measurement<br>TAS 105and<br>measurementCarrying<br>amountsCarrying<br>amountsCurrent financial assetsAmortised costAmortised cost21,583.2721,583.27Cash and cash equivalents<br>Short-term investments<br>Trade and other receivables<br>Amortised costAmortised cost21,582.9721,582.97Short-term investments<br>Trade and other receivables<br>Amortised costAmortised cost10,915.7610,915.76Derivatives assets<br>Other current financial assetsFVPLFVPL7.637.63Non-current financial assetsFVPLFVPL7.637.63Derivatives assetsFVPLFVPL10,915.7610,915.76Derivatives assetsFVPLFVPL1,93.296.37193,296.37Derivatives assetsFVPLFVPL1,93.2751,93.275Derivative assetsCost lessFVOCI1.441.44IndependenciCarvatives<br><td></td> <td>•</td> <td>•</td> <td></td> <td></td>   |  | •                  | •              |                |                |        |
| Other non-current assetsAmortised costAmortised cost4.984.98Current financial liabilitiesAmortised costAmortised cost313.51313.51Derivative liabilitiesAmortised costAmortised cost3.103.10Other current liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost377.76377.76DebenturesAmortised costAmortised cost377.76377.76Classification and measurement under under amounts amounts amountsUnit: Million BahtClassification and measurement under under amounts amountsAmortised costAmortised cost21,583.2721,583.2721,582.97Current financial assetsCash and cash equivalentsShort-term investmentsAmortised costAmortised cost21,582.27Trees and other receivablesAmortised costAmortised cost10,915.76Short-term investmentsFVPLFVPL7.637.63Trees assetsFVPLFVPL6.346.34Other current financial assetsFVPLFVPL1,32.751,93.275Derivative assetsFVPLFVPL1,93.296.37193.296.37193.296.37Derivative assetsFVPLFVPL1,441.44InderivativesGerivativesGerivativesGerivativesCottlessFVPLFVPL<   | Other non-current financial assets   | Cost less          |                | 0.05           | 0.05           |        |
| Trade and other payables<br>Derivative liabilitiesAmortised cost<br>FVPLAmortised cost<br>FVPL313.51<br>12.03<br>12.03<br>12.03Other current liabilities<br>DebenturesAmortised costAmortised cost3.103.10Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Classification<br>under<br>TAS 105Classification<br>measurement<br>TAS 105Carrying<br>TFRS 9Current financial assets<br>Short-term loans to a related party<br>Other current financial assetsAmortised costAmortised cost21,583.2721,582.97Chreat time financial assetsAmortised costAmortised cost21,583.2721,583.2721,582.97Short-term loans to a related party<br>Derivatives assetsAmortised costAmortised cost10,915.7610,915.76Non-current financial assets<br>Current financial assetsFVPLFVPL7.637.63Other current sasetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL1,932.96.37193,296.37Derivative assetsAmortised costAmortised cost1,116.781,116.78Other non-current financial assetsAmortised costAmortised cost1,932.751,932.75Other non-current financial assetsAmortised costAmortised cost1,932.96.37193,296.37Derivative assetsCost lessFVPLFVPL1,932.751   | Other non-current assets   |                    | Amortised cost | 4.98           | 4.98           |        |
| Trade and other payables<br>Derivative liabilitiesAmortised cost<br>FVPLAmortised cost<br>FVPL313.51<br>12.03<br>12.03<br>12.03Other current liabilities<br>DebenturesAmortised costAmortised cost3.103.10Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Classification<br>under<br>TAS 105Classification<br>measurement<br>TAS 105Carrying<br>TFRS 9Current financial assets<br>Short-term loans to a related party<br>Other current financial assetsAmortised costAmortised cost21,583.2721,582.97Chreat time financial assetsAmortised costAmortised cost21,583.2721,583.2721,582.97Short-term loans to a related party<br>Derivatives assetsAmortised costAmortised cost10,915.7610,915.76Non-current financial assets<br>Current financial assetsFVPLFVPL7.637.63Other current sasetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL1,932.96.37193,296.37Derivative assetsAmortised costAmortised cost1,116.781,116.78Other non-current financial assetsAmortised costAmortised cost1,932.751,932.75Other non-current financial assetsAmortised costAmortised cost1,932.96.37193,296.37Derivative assetsCost lessFVPLFVPL1,932.751   | Current financial lighilition  |                    |                |                |                |        |
| Derivative liabilitiesFVPLFVPL12.0312.03Other current liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilitiesAmortised costAmortised cost3.77.76377.76DebenturesAmortised costAmortised cost3.77.76377.76Separate financial statementsUnit: Million BahtClassificationClassification and measurementCarrying amountsTAS 105TFRS 9Carrying amountsTAS 105TFRS 9Current financial assetsCarrying amountsCarrying amountsTAS 105TFRS 9TAS 105TFRS 9Carrying amountsTAS 105TFRS 9Current financial assetsCarrying Amortised costAmortised cost21,583.2721,583.2721,583.27Carrying Amortised costAmortised cost21,592.97Carrying Amortised costCarrying Carrying Amortised cost <td colspa<="" td=""><td></td><td>Amortiand</td><td>Amortiand anat</td><td>010 51</td><td>010 51</td></td>  | <td></td> <td>Amortiand</td> <td>Amortiand anat</td> <td>010 51</td> <td>010 51</td> |                    | Amortiand      | Amortiand anat | 010 51         | 010 51 |
| Other current liabilitiesAmortised costAmortised cost3.103.10Non-current financial liabilities<br>DebenturesAmortised costAmortised cost377.76377.76Separate financial statements<br>Unit: Million BahtClassification and<br>measurementCarrying<br>amountsCarrying<br>under<br>TAS 105Carrying<br>TFRS 9Current financial assetsCarrent financial assetsCash and cash equivalents<br>Short-term investmentsAmortised costAmortised cost21,583.2721,583.27Short-term investments<br>Derivatives assetsAmortised costAmortised cost21,583.2721,583.27Short-term loans to related party<br>Derivative assetsAmortised costAmortised cost10,915.7610,915.76Non-current financial assets<br>Derivative assetsFVPLFVPL7.637.63Non-current financial assetsFVPLFVPL1,316.78Long-term loans to related parties<br>Derivative assetsAmortised costAmortised cost11,116.78Non-current financial assetsAmortised costAmortised cost1,93,296.37193,296.37Long-term loans to related parties<br>Derivative assetsAmortised costAmortised cost193,296.37193,296.37Other non-current financial assetsCost less<br>FVPLFVPL1,441,44Other non-current financial assetsCost less<br>FVPLFVOCI1,441,44ImpairmentCost less<br>ImpairmentFVOCI1,441,44<   |  |                    |                |                |                |        |
| Non-current financial liabilities       Amortised cost       Amortised cost       377.76       377.76         Debentures       Amortised cost       Amortised cost       377.76       377.76         Separate financial statements         Unit: Million Baht         Classification and and measurement measurement amounts amounts amounts         Outrent financial assets         Current financial assets         Cash and cash equivalents         Short-term investments       Amortised cost       Amortised cost       21,583.27       21,583.27         Short-term loans to a related party       Amortised cost       Amortised cost       21,592.97       21,592.97         Short-term financial assets       FVPL       FVPL       7.63       7.63         Other current financial assets       FVPL       FVPL       7.63       7.63         Other current financial assets       FVPL       FVPL       6.34       6.34         Other current financial assets       Amortised cost       Amortised cost       1,116.78       1,116.78         Long-term loans to related parties       Amortised cost       Amortised cost       193,296.37       193,296.37       193,296.37         Derivative assets       FVPL       FVPL  |  | =                  | –              |                |                |        |
| DebenturesAmortised costAmortised cost377.76377.76Separate financial statements<br>Unit: Million BahtClassification<br>and<br>measurementCarrying<br>amountsCarrying<br>amountsCurrent financial assetsCurrent financial assetsCarrying carrying<br>under<br>TAS 105Carrying carrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>amountsCarrying<br>   |  | Amonised Cost      | Amonised cost  | 3.10           | 5.10           |        |
| Separate financial statements         Unit: Million Baht         Classification and measurement and measurement carrying carrying under amounts amounts amounts         Current financial assets         Cash and cash equivalents         Amortised cost       Amortised cost       Amortised cost       21,583.27       21,583.27         Short-term investments         Held-to-maturity       Amortised cost       21,592.97       21,592.97         Short-term investments         FVPL       FVPL       7.63       7.63         Other current financial assets       FVPL       FVPL       7.63       7.63         Other current financial assets       FVPL       FVPL       6.34       6.34       6.34         Other current financial assets       FVPL       FVPL       1,116.78       1,116.78         Non-current financial assets         Current financial assets         PUPL       FVPL       7.63       7.63       7.63         Other current financial assets       FVPL       FVPL       193,296.37       193,296.37       193,296.37       193  |  | Amortiand anot     | Amortiand anot | 277 76         | 977 76         |        |
| Unit: Million BahtClassificationClassification and<br>measurementand<br>measurementClassification and<br>measurementCarrying<br>amountsUnder<br>amountsCarrying<br>amountsunder<br>TAS 105TFRS 9Carrying<br>amounts<br>amountsCurrent financial assetsCurrent financial assetsCurrent financial assetsCurrent financial assetsCurrent financial assetsAmortised costAmortised cost21,583.2721,583.27Short-term investmentsAmortised costAmortised cost21,592.97Short-term loans to a related partyAmortised costAmortised cost21,592.97Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPLFVPL6.346.34Cost lessFVPLFVPL7.637.63Toth colspan="2">Toth c   | Debentures   | Amonised cost      | Amonised cost  | 377.70         | 377.70         |        |
| Classification<br>and<br>measurement<br>under<br>TAS 105Carrying<br>measurement<br>under<br>amounts<br>amounts<br>amounts<br>amounts<br>TFRS 9Current financial assetsAmortised cost<br>Held-to-maturity<br>Amortised costAmortised cost<br>Amortised cos |  |                    |                |                |                |        |
| measurement<br>under<br>TAS 105measurement<br>under<br>TFRS 9Carrying<br>amounts<br>TAS 105Carrying<br>amounts<br>TFRS 9Current financial assetsCash and cash equivalentsCash and cash equivalentsAmortised costAmortised costAmortised costAmortised costAmortised costCarrying<br>amountsTrade and other receivablesAmortised costAmortised cost  |  |                    | Classification | Uni            |                |        |
| measurement<br>under<br>TAS 105measurement<br>under<br>TFRS 9Carrying<br>amounts<br>TAS 105Carrying<br>amounts<br>TFRS 9Current financial assetsCash and cash equivalentsCash and cash equivalentsAmortised costAmortised costAmortised costAmortised costAmortised costCarrying<br>amountsTrade and other receivablesAmortised costAmortised cost  |  | Classification and | and            |                |                |        |
| under<br>TAS 105under<br>TFRS 9amounts<br>TAS 105amounts<br>TFRS 9Current financial assetsCash and cash equivalentsAmortised costAmortised cost21,583.27Short-term investmentsHeld-to-maturityAmortised cost6,030.80Trade and other receivablesAmortised costAmortised cost21,592.97Short-term loans to a related partyAmortised costAmortised cost10,915.76Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL6.346.34Other current financial assetsAmortised costAmortised cost1,116.781,116.78Long-term loans to related partiesAmortised costAmortised cost193,296.37193,296.37Derivative assetsFVPLFVPL1,932.751,932.75Cost lessFVOCI1.441.44impairmentimpairment1.441.44   |  |                    | measurement    | Carrying       | Carrying       |        |
| Current financial assetsCash and cash equivalentsAmortised costAmortised cost21,583.2721,583.27Short-term investmentsHeld-to-maturityAmortised cost6,030.806,030.80Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term loans to a related partyAmortised costAmortised cost10,915.7610,915.76Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL6.346.34Other current financial assetsAmortised costAmortised cost1,116.781,116.78Long-term loans to related partiesAmortised costAmortised cost193,296.37193,296.37Derivative assetsCost lessFVPLFVPL1,932.751,932.75Other non-current financial assetsCost lessFVOCI1.441.44impairmentFVOCI1.441.44  |  | under              | under          |                |                |        |
| Cash and cash equivalentsAmortised costAmortised cost21,583.2721,583.27Short-term investmentsHeld-to-maturityAmortised cost6,030.806,030.80Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term loans to a related partyAmortised costAmortised cost10,915.7610,915.76Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL6.346.34Other current financial assetsAmortised costAmortised cost1,116.781,116.78Long-term loans to related partiesAmortised costFVPL1,93,296.37193,296.37Derivative assetsFVPLFVPL1,932.751,932.75Other non-current financial assetsCost lessFVOCI1.441.44ImpairmentImpairment1.441.44   |  | TAS 105            | TFRS 9         | TAS 105        | TFRS 9         |        |
| Short-term investmentsHeld-to-maturityAmortised cost6,030.806,030.80Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term loans to a related partyAmortised costAmortised cost10,915.7610,915.76Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL6.346.34Other current financial assetsAmortised costAmortised cost1,116.78Non-current financial assetsAmortised costAmortised cost193,296.37Long-term loans to related partiesAmortised costFVPL1,932.75Derivative assetsFVPLFVPL1,932.751,932.75Other non-current financial assetsCost lessFVOCI1.441.44impairmentimpairment1.441.44   | Current financial assets   |                    |                |                |                |        |
| Short-term investmentsHeld-to-maturityAmortised cost6,030.806,030.80Trade and other receivablesAmortised costAmortised cost21,592.9721,592.97Short-term loans to a related partyAmortised costAmortised cost10,915.7610,915.76Derivatives assetsFVPLFVPL7.637.63Other current financial assetsFVPLFVPL6.346.34Other current financial assetsAmortised costAmortised cost1,116.78Non-current financial assetsAmortised costAmortised cost193,296.37Long-term loans to related partiesAmortised costFVPL1,932.75Derivative assetsFVPLFVPL1,932.751,932.75Other non-current financial assetsCost lessFVOCI1.441.44impairmentimpairment1.441.44   | Cash and cash equivalents  | Amortised cost     | Amortised cost | 21,583.27      | 21,583.27      |        |
| Short-term loans to a related party<br>Derivatives assetsAmortised cost<br>FVPLAmortised cost<br>FVPL10,915.76<br>FVPL10,915.76<br>FVPLDerivatives assetsFVPLFVPL7.63<br>FVPL7.63<br>6.347.63<br>6.34Other current financial assetsFVPLFVPL6.34<br>6.346.34Other current financial assetsAmortised costAmortised cost1,116.78Non-current financial assetsAmortised costAmortised cost193,296.37<br>1,932.75193,296.37Long-term loans to related partiesAmortised costAmortised cost193,296.37<br>1,932.751,932.75<br>1,932.75Derivative assetsFVPLFVPLFVPL1,932.75Other non-current financial assetsCost less<br>impairmentFVOCI1.441.44  | Short-term investments   | Held-to-maturity   | Amortised cost | 6,030.80       | 6,030.80       |        |
| Short-term loans to a related party<br>Derivatives assetsAmortised cost<br>FVPLAmortised cost<br>FVPL10,915.76<br>FVPL10,915.76<br>FVPLDerivatives assetsFVPLFVPL7.63<br>FVPL7.63<br>6.347.63<br>6.34Other current financial assetsFVPLFVPL6.34<br>6.346.34Other current financial assetsAmortised costAmortised cost1,116.78Non-current financial assetsAmortised costAmortised cost193,296.37<br>1,932.75193,296.37Long-term loans to related partiesAmortised costAmortised cost193,296.37<br>1,932.751,932.75<br>1,932.75Derivative assetsFVPLFVPLFVPL1,932.75Other non-current financial assetsCost less<br>impairmentFVOCI1.441.44  | Trade and other receivables  | ,                  | Amortised cost | ,              | •              |        |
| Other current financial assetsFVPLFVPL6.346.34Other current assetsFVPLFVPL6.346.34Other current assetsAmortised costAmortised cost1,116.78Non-current financial assetsAmortised costAmortised cost193,296.37Long-term loans to related partiesAmortised costFVPL1,932.75Derivative assetsFVPLFVPL1,932.75Other non-current financial assetsCost lessFVOCI1.44ImpairmentInterviewent1.44   | Short-term loans to a related party  | Amortised cost     | Amortised cost | 10,915.76      | 10,915.76      |        |
| Other current assetsAmortised costAmortised cost1,116.781,116.78Non-current financial assetsAmortised costAmortised cost193,296.37193,296.37Long-term loans to related partiesAmortised costAmortised cost193,296.37193,296.37Derivative assetsFVPLFVPL1,932.751,932.75- Hedge- HedgederivativesderivativesOther non-current financial assetsCost lessFVOCI1.441.44   | Derivatives assets   | FVPL               | FVPL           | 7.63           | 7.63           |        |
| Non-current financial assets         Long-term loans to related parties       Amortised cost       Amortised cost       193,296.37       193,296.37         Derivative assets       FVPL       FVPL       1,932.75       1,932.75         - Hedge       - Hedge       derivatives       derivatives         Other non-current financial assets       Cost less       FVOCI       1.44       1.44  | Other current financial assets   | FVPL               | FVPL           | 6.34           | 6.34           |        |
| Long-term loans to related partiesAmortised costAmortised cost193,296.37193,296.37Derivative assetsFVPLFVPL1,932.751,932.75- Hedge- Hedge- Hedgederivatives1,932.75Other non-current financial assetsCost lessFVOCI1.441.44   | Other current assets   | Amortised cost     | Amortised cost | 1,116.78       | 1,116.78       |        |
| Derivative assets     FVPL     FVPL     1,932.75       - Hedge     - Hedge       derivatives     derivatives       Other non-current financial assets     Cost less     FVOCI       1.44     1.44   | Non-current financial assets   |                    |                |                |                |        |
| - Hedge - Hedge<br>derivatives derivatives<br>Other non-current financial assets Cost less FVOCI 1.44 1.44<br>impairment  | Long-term loans to related parties   | Amortised cost     | Amortised cost | 193,296.37     | 193,296.37     |        |
| derivatives     derivatives       Other non-current financial assets     Cost less     FVOCI     1.44       impairment     1.44   | Derivative assets  | FVPL               | FVPL           | 1,932.75       | 1,932.75       |        |
| Other non-current financial assets Cost less FVOCI 1.44 1.44 impairment   |  | - Hedge            | - Hedge        |                |                |        |
| impairment  |  | derivatives        | derivatives    |                |                |        |
| Other non-current assets Amortised cost Amortised cost 150.07 150.07  | Other non-current financial assets   |                    | FVOCI          | 1.44           | 1.44           |        |
|   | Other non-current assets   | Amortised cost     | Amortised cost | 150.07         | 150.07         |        |

|                                   |                    |                | Separate financia | al statements |
|-----------------------------------|--------------------|----------------|-------------------|---------------|
|                                   | Unit: Million Baht |                |                   |               |
|                                   |                    | Classification |                   |               |
|                                   | Classification and | and            |                   |               |
|                                   | measurement        | measurement    | Carrying          | Carrying      |
|                                   | under              | under          | amounts           | amounts       |
|                                   | TAS 105            | TFRS 9         | TAS 105           | TFRS 9        |
|                                   |                    |                |                   |               |
| Current financial liabilities     |                    |                |                   |               |
| Trade and other payables          | Amortised cost     | Amortised cost | 9,453.54          | 9,453.54      |
| Derivative liabilities            | FVPL               | FVPL           | 362.65            | 362.65        |
| Other current liabilities         | Amortised cost     | Amortised cost | 93.36             | 93.36         |
|                                   |                    |                |                   |               |
| Non-current financial liabilities |                    |                |                   |               |
| Debentures                        | Amortised cost     | Amortised cost | 11,391.04         | 11,391.04     |

## 6.2 Impact of new financial reporting standard relating to leases (TFRS 16)

On adoption of TFRS 16 as at 1 January 2020, the Group recognised lease liabilities in relation to leases which had previously been classified as 'operating leases' under the principles of TAS 17 Leases. These liabilities were measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rates. The weighted average lessee's incremental borrowing rates applied to the lease liabilities for the Group and the Company were 3.10% and 2.79% per annum, respectively.

For leases previously classified as finance leases the Group recognised the carrying amount of the lease asset and lease liability immediately before the transition as the carrying amount of the right-of-use assets and the lease liabilities at the date of initial application. The measurement principles of TFRS 16 are only applied after that date.

The reconciliations of lease liabilities as at 1 January 2020 are as follows:

|   | financ           | Consolidated<br>cial statements | financ          | Separate cial statements |
|---|------------------|---------------------------------|-----------------|--------------------------|
|   | Unit: Million    | Unit: Million                   | Unit: Million   | Unit: Million            |
|   | US Dollar        | Baht                            | US Dollar       | Baht                     |
| Operating lease commitments disclosed<br>as at 31 December 2019<br>(Less):Impact from using the lessee's<br>incremental borrowing rate at the<br>date of initial application              | 161.79<br>(9.20) | 4,877.76<br>(277.57)            | 11.64<br>(1.83) | 350.57<br>(55.17)        |
| (Less): Short-term leases recognised on a<br>straight-line basis as expense<br>Add: Lease impact from joint operation<br>Add: Adjustments related to extension<br>and termination options | (9.63)<br>57.51  | (290.50)<br>1,734.09            | (1.60)          | (48.31)<br>-             |
| of lease contracts  | 146.51           | 4,417.71                        | 0.21            | 6.33                     |
| Add: Others   | 14.79            | 447.28                          | 21.58           | 651.66                   |
| Lease liability recognised from adoption of<br>TFRS 16 as at 1 January 2020<br>Add: Finance lease liabilities recognised  | 361.77           | 10,908.77                       | 30.00           | 905.08                   |
| as at 31 December 2019  | 143.69           | 4,332.97                        | 1.06            | 31.98                    |
| Lease liability recognised<br>as at 1 January 2020  | 505.46           | 15,241.74                       | 31.06           | 937.06                   |
| Current lease liabilities   | 101.60           | 3,063.55                        | 17.36           | 523.53                   |
| Non-current lease liabilities   | 403.86           | 12,178.19                       | 13.70           | 413.53                   |

## The recognised right-of-use assets relate to the following type of assets:

|                           |             | С                 | onsolidated finan | cial statements  |
|---------------------------|-------------|-------------------|-------------------|------------------|
|                           | Unit: M     | lillion US Dollar | Un                | it: Million Baht |
|                           | 31 December | 1 January         | 31 December       | 1 January        |
|                           | 2020        | 2020              | 2020              | 2020             |
|                           |             |                   |                   |                  |
| Petroleum exploration and |             |                   |                   |                  |
| production assets         | 467.97      | 466.86            | 14,056.51         | 14,077.53        |
| Others                    | 14.81       | 28.72             | 444.72            | 866.15           |
| Total right-of-use assets | 482.78      | 495.58            | 14,501.23         | 14,943.68        |

|                           |             |                  | Separate finance | cial statements  |
|---------------------------|-------------|------------------|------------------|------------------|
|                           | Unit: M     | illion US Dollar | Un               | it: Million Baht |
|                           | 31 December | 1 January        | 31 December      | 1 January        |
|                           | 2020        | 2020             | 2020             | 2020             |
|                           |             |                  |                  |                  |
| Petroleum exploration and |             |                  |                  |                  |
| production assets         | 39.99       | 5.94             | 1,201.32         | 179.13           |
| Others                    | 12.42       | 25.48            | 372.99           | 768.24           |
| Total right-of-use assets | 52.41       | 31.42            | 1,574.31         | 947.37           |

## Practical expedients applied

In applying TFRS 16 for the first time, the Group elects not to reassess whether a contract is, or contains a lease as defined under TFRS 16 at the date of initial application, but relied on its assessment made applying TAS 17 and TFRIC 4 Determining whether an Arrangement contains a Lease and no assessments on whether leases are onerous and consider the operating leases with a remaining lease term of less than 12 months as at 1 January 2020 to be short-term leases.

## 7 Accounting policies

The principal accounting policies applied in the preparation of these consolidated and separate financial statements are set out below.

## 7.1 Principles of consolidation accounting

## a) Subsidiaries

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are consolidated from the date on which control is transferred to the Group until the date that control ceases.

In the separate financial statements, investments in subsidiaries are accounted for using cost method less impairment (if any).

List of subsidiaries has been presented in Note 18.

## b) Associates

Associates are all entities over which the Group has significant influence but not control or joint control. Investments in associates are accounted for using the equity method of accounting.

In the separate financial statements, investments in associates are accounted for using cost method less impairment (if any).

List of associates has been presented in Note 18.

47

## c) Joint arrangements

Investments in joint arrangements are classified as either joint operations or joint ventures depending on the contractual rights and obligations of each investor, rather than the legal structure of the joint arrangements.

## Joint operations

A joint operation is a joint arrangement whereby the Group has rights to the assets, and obligations for the liabilities relating to the arrangement. The Group recognises its direct right to the assets, liabilities, revenues and expenses of joint operations and its share of any jointly held or incurred assets, liabilities, revenues and expenses. These have been incorporated in the Group's financial statement line items.

#### Joint ventures

A joint venture is a joint arrangement whereby the Group has rights to the net assets of the arrangement. Interests in joint ventures are accounted for using the equity method in the consolidated financial statements.

In the separate financial statements, investments in joint ventures are accounted for using cost less impairment (if any).

List of joint ventures and joint operations have been presented in Note 18.

d) Equity method

The investment is initially recognised at cost which is consideration paid and directly attributable costs.

The Group's subsequently recognises shares of its associates and joint ventures' profits or losses and other comprehensive income in the profit or loss and other comprehensive income, respectively. The subsequent cumulative movements are adjusted against the carrying amount of the investment.

When the Group's share of losses in associates and joint ventures equals or exceeds its interest in the associates and joint ventures, the Group does not recognise further losses, unless it has incurred obligations or made payments on behalf of the associates and joint ventures.

## e) Changes in ownership interests

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A difference between the amount of the adjustment to non-controlling interests to reflect their relative interest in the subsidiary and any consideration paid or received is recognised within equity.

If the ownership interest in associates and joint ventures is reduced but significant influence and joint control is retained, only a proportionate share of the amounts previously recognised in other comprehensive income is reclassified to profit or loss where appropriate. Profit or loss from reduce of the ownership interest in associates and joint ventures is recognise in profit or loss.

When the Group losses control, joint control or significant influence over investments, any retained interest in the investment is remeasured to its fair value, with the change in carrying amount recognised in profit or loss. The fair value becomes the initial carrying amount of the retained interest which is reclassified to investment in an associate, or a joint venture or a financial asset accordingly.

f) Intercompany transactions on consolidation

Intra-group transactions, balances and unrealised gains on transactions are eliminated. Unrealised gains on transactions between the Group and its associates and joint ventures are eliminated to the extent of the Group's interest in the associates and joint ventures. Unrealised losses are also eliminated in the same manner unless the transaction provides evidence of an impairment of the asset transferred.

## 7.2 Business combination

The Group applies the acquisition method to account for business combinations with an exception on business combination under common control. The consideration transferred for the acquisition of a subsidiary comprises.

- Fair value of the assets transferred,
- Liabilities incurred to the former owners of the acquiree,
- Equity interests issued by the Group.

Identifiable assets and liabilities acquired and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date.

The excess of the consideration transferred, the amount of any non-controlling interest recognised and the acquisition-date fair value of any previous equity interest in the acquiree (for business combination achieved in stages) over the fair value of the identifiable net assets acquired is recorded as goodwill. In the case of a bargain purchase, the difference is recognised directly in profit or loss.

Acquisition-related cost are recognised as expenses in consolidated financial statements.

Subsequent changes to the fair value of the contingent consideration that is an asset or liability is recognised in profit or loss. Contingent consideration that is classified as equity is not re-measured.

## Business combination under common control

The Group accounts for business combination under common control by measuring acquired assets and liabilities of the acquiree at their carrying values presented in the highest level of the consolidation. The Group retrospectively adjusted the business combination under common control transactions as if the combination had occurred on the later of the beginning of the preceding comparative period and the date the acquiree has become under common control.

Consideration of business combination under common control are the aggregated amount of fair value of assets transferred, liabilities incurred and equity instruments issued by the acquirer at the date of which the exchange in control occurs.

The difference between consideration under business combination under common control and the acquirer's interests in the carrying value of the acquiree is presented as "surplus arising from business combination under common control" in equity and is derecognised when the investment is disposed.

#### 7.3 Foreign currency translation

a) Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The financial statements are presented in US Dollar, which is the Company's functional currency and the Company's and Group's presentation currency.

#### b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the profit or loss.

When a gain or loss on a non-monetary item is recognised in other comprehensive income, any exchange component of that gain or loss is recognised in other comprehensive income. Conversely, when a gain or loss on a non-monetary item is recognised in profit or loss, any exchange component of that gain or loss is recognised in profit or loss.

c) Group companies

The operational results and financial position of the Group's entities (none of which has the currency of a hyper-inflationary economy) that have a different functional currency from the Group's presentation currency are translated into the presentation currency.

To comply with the financial reporting requirements of the Stock Exchange of Thailand and the Department of Business Development, the Group presents the financial statements by translating from US Dollar to Thai Baht. The assets and liabilities are translated into Thai Baht using the average buying and selling rates determined by the Bank of Thailand at period-end, whereas the statement of income and the statement of comprehensive income is translated using average exchange rates during the period. Differences from such translations have been presented in other comprehensive income (loss).

## 7.4 Cash and cash equivalents

Cash and cash equivalents includes cash on hand, deposits at bank, short-term highly liquid investments with maturities of three months or less from acquisition date.

## 7.5 Trade accounts receivable

Trade receivables are amounts due from customers for goods sold or services performed in the ordinary course of business.

Trade receivables are recognised initially at the amount of consideration that is unconditional unless they contain significant financing components, they are recognised at fair value. The Group measures them subsequently at amortised cost.

The impairment of trade accounts receivable are disclosed in Note 7.8 (f).

#### 7.6 Inventories

Inventories are stated at the lower of cost and net realisable value.

Cost of inventories is determined by the weighted average method. Net realisable value is the estimated selling price in the ordinary course of business less the costs of completion and selling expenses.



## 7.7 Materials and supplies

Materials and supplies are stated at cost less allowance for obsolescence.

The costs of materials and supplies are determined using the weighted average cost method.

## 7.8 Financial asset

## For the year ended 31 December 2020

a) Classification

From 1 January 2020, the Group classifies its debt instrument financial assets into the following measurement categories depending on i) business model for managing the asset and ii) the cash flow characteristics of the asset whether they represent solely payments of principal and interest (SPPI).

- Those to be measured subsequently at fair value through other comprehensive income (FVOCI) or fair value through profit or loss (FVPL); and
- Those to be measured at amortised cost.

For investments in equity instruments, the Group has an irrevocable election at the time of initial recognition to account for the equity investment at a) fair value through profit or loss or b) at fair value through other comprehensive income except those that are held for trading, they are measured at FVPL.

b) Recognition and derecognition

Regular way purchases, acquires and sales of financial assets are recognised on the date on trade date, which the Group commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and the Group has transferred substantially all the risks and rewards of ownership.

c) Measurement

At initial recognition, the Group measures a financial asset at its fair value plus or minus, in the case of a financial asset not at FVPL, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at FVPL are expensed in profit or loss.

Financial assets with embedded derivatives are considered in their entirety when determining whether the cash flows are solely payment of principal and interest.



## d) Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model for managing the asset and the cash flow characteristics of the financial assets. There are three measurement categories into which the Group classifies its debt instruments:

- Amortised cost Financial assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. Interest income from these financial assets is included in interest income using the effective interest rate method. Any gain or loss arising on derecognition and foreign exchange gains and losses are recognised in profit or loss and presented in other gains/(losses) and gain (loss) on foreign exchange rates, respectively. Impairment losses are presented as a separate line item in the statement of income.
- FVOCI Financial assets that are held for i) collection of contractual cash flows and ii) for selling the financial assets are measured at FVOCI. Movements in the carrying amount are taken through other comprehensive income (OCI), except for the recognition of impairment gains or losses, interest income using the effective interest method, and foreign exchange gains and losses which are recognised in profit or loss. When the financial assets is derecognised, the cumulative gain or loss previously recognised in OCI is reclassified from equity to profit or loss and recognised in other gains/(losses). Interest income is included in interest income. Impairment expenses are presented separately in the statement of income.
- FVPL Financial assets that do not meet the criteria for amortised cost or FVOCI are measured at FVPL. A gain or loss on a debt investment that is subsequently measured at FVPL is recognised in profit or loss and presented in gains (loss) on remeasuring of financial instruments from in the period in which it arises.

The Group reclassifies debt instruments only when its business model for managing those assets changes.

## e) Equity instruments

The Group measures all equity investments at fair value. Where the Group has elected to present fair value gains and losses on equity instruments in OCI, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment. Dividends from such investments continue to be recognised in profit or loss as other income when the right to receive payments is established.

Changes in the fair value of financial assets at FVPL are recognised in gain on remeasuring financial instruments in the incurring period.

Impairment losses and reversal of impairment losses on equity investments are reported together with changes in fair value.

## f) Impairment

From 1 January 2020, the Group applies the TFRS 9 simplified approach in recognising the impairment of trade and other receivables, which applies lifetime expected credit loss, from initial recognition, for trade and other receivables.

To measure the expected credit losses, trade receivables have been grouped based on shared credit risk characteristics and the days past due. The expected loss rates are based on the payment profiles and the corresponding historical credit losses experienced. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the customers to settle the receivables.

For long-term loans to related parties and other financial assets carried at amortised cost and FVOCI, the Group applies TFRS 9 general approach in measuring the impairment of those financial assets. Under the general approach, the 12-month or the lifetime expected credit loss is applied depending on whether there has been a significant increase in credit risk since the initial recognition.

The credit risk assessment is performed at the end of each reporting period whether there is any significant increase in credit risk profile from the initial recognition by comparing i) expected risk of default as of the reporting date and ii) estimated risk of default on the date of initial recognition.

The Group assesses expected credit loss by taking into consideration forward-looking information and past experiences. The expected credit loss is a probability-weighted estimate of credit losses (probability-weighted present value of estimated cash shortfall). The cash shortfall is the difference between all contractual cash flows that are due to the Group and all cash flows expected to receive, discounted at the original effective interest rate.

When measuring expected credit losses, the Group reflects the following:

- Probability-weighted estimated uncollectible amounts;
- Time value of money; and
- Supportable and reasonable information as of the reporting date about past experience, current conditions and forecasts of future situations.

Impairment and reversal of impairment losses are recognised in profit or loss and included in administrative expenses.

## For the year ended 31 December 2019

The Group classifies its financial assets into 4 categories: (1) at fair value through statements of income, (2) held-to-maturity, (3) loans and receivables and (4) available for sale. The classification depends on the purpose for which the financial assets are acquired.

Financial assets are initially recognised at fair value. In case that financial assets are not initially recognised at fair value through statements of income, they are recognised at the amount of fair value, net of the transaction costs directly attributable to the acquisition or the acquisition or the issue of such financial assets. The subsequent measurement of financial assets depends on their classification. Loans and receivables, and held-to-maturity financial assets are initially recognised at fair value, net of the transaction cost and are subsequently measured at amortised cost using the effective interest method with gains or losses recognised in the statements of income.

#### Short term investments

Investments with fixed maturity of more than 3 months but within 12 months from the date of acquisition and the Group intends to hold them to maturity, are subsequenly recognised at amortised cost using the effective yield method less allowance for decrease in value of investments. A test for allowance for decrease in value of investment is carried out when there is a factor indicating that the value of investments might be decreased. If the carrying value of the investments is higher than its recoverable amount, the Group will recognise the loss on decrease in value of investments in the statements of income.

The embedded derivatives in financial assets and liabilities are separately recognised from its main financial instruments when they meet the conditions specified in the accounting standard. However, the entity may designate those financial assets or liabilities with embedded derivative as the financial assets and liabilities measured at fair value through profit or loss if the embedded derivative significantly modify the cash flows that otherwise would be required by the contract.

#### Investments in trading securities

Investment in trading securities are acquired principally for the purpose of generating a profit from the price fluctuation.

Investment in trading securities are initially recognised at cost, which is equal to the fair value of consideration paid plus transaction cost, and subsequently measured at fair value. The fair value of investments is based on value of net assets of the unit trust. The unrealised gains and losses of investment will be recognised in the statement of income.

## Investments in available-for-sale securities

Investments in available-for-sale securities are initially recognised at cost, which is equal to the fair value of consideration paid plus transaction cost and subsequently measured at fair value. The fair value of investment is based on the closing price at the last day of the reporting period from the investment's reference source. Unrealised gains or losses of investments in available-for-sale securities are recognised in other comprehensive income (loss).

A test of impairment is carried out when there is a factor indicating that an investment might be impaired. If the carrying value of the investment is higher than its recoverable amount, impairment loss is recognised in the statements of income.

On disposal of an investment, the difference between the net disposal proceeds and the carrying amount is recognised in the statements of income.

#### Other long-term investments

The Group classifies investments in non-marketable equity securities other than investments in subsidiaries, associates, joint ventures and joint operations as general investments and presents them as long as other long-term investments at cost less provision for impairment in the statements of financial position. A test for impairment is carried out when there is an indicator that the investment might be impaired. If the carrying value of the investment is higher than its recoverable amount, the Group will recognise the impairment loss in the statements of income.

## Impairment of financial assets

The Group assesses at each statements of financial position date whether a financial asset or group of financial assets is impaired. If there is objective evidence that an impairment loss has been incurred, the amount of impairment loss is measured as the difference between book value of financial assets and present value of future cash flows discounted using the original effective interest rate according to the contract. Impairment loss is recognised as gains or losses in the statements of income.

## 7.9 Group of non-current assets held-for-sale

Non-current assets (or disposal groups) are classified as assets held-for-sale when their carrying amount will be recovered principally through a sale transaction and a sale is considered highly probable. They are measured at the lower of the carrying amount and fair value less costs to sell.

An impairment loss is recognised for initial and subsequent write-down of the asset (or disposal group) to fair value less costs to sell. A gain is recognised for any subsequent increases in fair value less costs to sell of an asset (or disposal group), but not in excess of any cumulative impairment loss previously recognised.

Non-current assets (including those that are part of a disposal group) are not depreciated or amortised.

## 7.10 Property, plant and equipment

Property, plant and equipment are presented at cost, after deducting accumulated depreciation and the provision for the impairment of assets.

Land is not depreciated. Depreciation on other assets is calculated as follows:

a) Exploration and production assets

The Group follows the Successful Efforts Method in accounting for its assets used for exploration and production activities as follows:

Cost of exploration and production assets

- Costs of exploration and production assets comprise total acquisition costs of petroleum rights or the acquisition costs of the portion of properties, decommissioning costs as well as support equipment and facilities.
- Exploratory drilling costs are capitalised as exploration and evaluation assets and will be classified as oil and gas properties of the projects if their exploratory wells have identified proved reserves that have been found to be commercially producible. However, if the exploratory wells have not identified proved reserves or have identified proved reserves but have not been found to be commercially producible, such drilling costs will be expensed in the statements of income.
- Exploration costs, comprising geological and geophysical costs as well as area reservation fees during the exploration stage, are charged to expenses in the statement of income when incurred.
- Development costs, whether relating to the successful or unsuccessful development of wells, are capitalised as oil and gas properties.

Depreciation and depletion

- The capitalised acquisition costs of petroleum rights are depreciated using the unit of
  production method based on proved reserves. Depreciation of exploratory wells, development
  costs as well as decommissioning costs, except unsuccessful projects, are calculated using
  the unit of production method based on proved reserves or proved developed reserves. The
  Group recognises changes in reserve estimates prospectively.
- Proved reserves and proved developed reserves are calculated by the engineers of the Company and are based on the information received from the joint operators.
- Depreciation for support equipment and facilities is calculated using the straight-line method with an estimated useful life of assets not exceeding 20 years.
- Depreciation for remuneration for the renewal of petroleum production is calculated using the straight-line method with an estimated useful life not exceeding 10 years in accordance with the agreement.
- b) Pipelines and others

Costs of properties comprises of other direct costs necessary to bring the asset to working condition suitable for its intended use.

Depreciation of pipelines and others is determined using the straight-line method with an estimated useful life of assets not exceeding 30 years.

The assets' residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period.

Subsequent costs are included in the asset's carrying amount, only when it is probable that future economic benefits associated with the item will flow to the Group. The carrying amount of the replaced part is derecognised.

Repair and maintenance costs are recognised as expenses when incurred.

Gains and losses on disposal of property, plant and equipment are determined by comparing proceeds from disposal with the carrying amount and are recognised in the statement of income when incurred.

## 7.11 Rights to receive reimbursement from decommissioning funds

Rights to receive reimbursement from decommissioning funds is recognised at present value when the Group contribute cash into the fund in accordance to terms and it is certainly probable that it can reimburse the cost of decommissioning from the funds. When funds reimburse cash to the Group after the completion of the decommissioning activities, cash will be adjusted against the right to receive reimbursement from decommissioning funds. The differences between the amount received and the remaining carrying amount of the decommissioning fund is recognized profit or loss.

The Group will not offset the rights to receive reimbursement from decommissioning fund with provisions for decommissioning costs if the Group is still obligated to the decommissioning liabilities. The Group does not have control, joint control or significant influence over the funds.

## 7.12 Goodwill

Goodwill arises from the business combination which represents the excess of the fair value of the consideration transferred over the fair value of the net identifiable assets, liabilities and contingent liabilities of the acquired subsidiaries, joint operations, associates or joint ventures undertaking at the date of the acquisition.

Goodwill on acquisitions of subsidiaries and joint operations is separately reported in the statements of financial position, while goodwill on acquisitions of associates and joint ventures is included in investment in associates and joint ventures.

Goodwill is not amortised but is annually tested for impairment. Goodwill is allocated to cashgenerating unit of group of cash-generating units that are expected to gain benefit from goodwill from the business combination. Goodwill is presented at cost less accumulated impairment losses.

Impairment losses on goodwill are not reversed. The carrying amount of goodwill is included in the gains and losses on the disposal of business when it is divested.

## 7.13 Intangible assets

Intangible assets are presented at cost, after deducting accumulated amortisation and the allowance for the impairment of assets.

Where the carrying amount of an asset is greater than its estimated recoverable amount, it is written down to its recoverable amount.

Intangible assets are amortised using the straight-line method according to asset's useful life but not exceeding 10 years.

Research and development/ internally generated intangible assets

Research expenditure is recognised as an expense as incurred.

Development expenditure is recognised as an asset when the Group can demonstrate all of the following:

- The expenditure attributable to its development can be measured reliably and feasibility in technical, financial, commercial, and resource and;
- •The Group intends to and has the ability to complete the development for the purpose of using or selling.

Development costs previously recognised as an expense are not recognised as an asset in a subsequent period.

## Other intangible assets

Other intangible assets comprise expenditures incurred to acquire computer software licenses and concession rights in midstream oil and gas business.

## 7.14 Exploration and evaluation assets

Exploration and evaluation expenditures are capitalised at cost as exploration and evaluation assets. If the projects have identified the proved reserves that have been found to be commercially producible, the capitalised exploration and evaluation expenditures under these projects will be transferred to oil and gas properties of the projects with proved reserves. Subsequent accounting of such costs is described in the accounting policy for property, plant and equipment in Note 7.10 - Property, Plant and Equipment. The capitalised exploration and evaluation expenditure is written off as expenses in the statements of income in the period in which the projects have not identified proved reserves or have identified proved reserves, but have not been found to be commercially producible.

## 7.15 Impairment of assets

The Group's assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may exceed the recoverable amount. Intangible assets that have an indefinite useful life or are not ready to be used are tested for impairment annually.

An impairment loss is recognised for the amount by which the carrying amount of the assets exceeds its recoverable amount which is the higher of an asset's fair value less costs to sell and its value in use, and is recorded in the statement of income. For the purposes of assessing impairment, assets are grouped at the lowest levels in which they are separately identifiable.

Estimates of future cash flows used in the evaluation for impairment of assets which relate to petroleum production are made with consideration of the risk assessment on field and reservoir performance which includes the estimate of proved and unproved reserves.

Allowance for impairment of assets, except when relating to goodwill, is reversed as applicable to the extent that the events or circumstances that triggered the original allowance for impairment change. For this circumstance, the increased carrying amount of the assets from the reversal could not exceed the carrying amount (net of amortisation or depreciation), if the Group did not recognise the impairment loss for assets in the prior period.

#### 7.16 Current and deferred income taxes

The tax expense for the period comprises current and deferred tax. Tax is recognised in profit or loss, except to the extent that it relates to items recognised in other comprehensive income or directly in equity.

## Current tax

The current income tax is calculated on the basis of the tax laws enacted or substantially enacted at the end of the reporting period. Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

## Deferred income tax

Deferred income tax is recognised on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements. However, deferred income tax is not recognised for temporary differences arise from:

- Initial recognition of an asset or liability in a transaction other than a business combination that affects neither accounting nor taxable profit or loss is not recognised
- Investments in subsidiaries, associates and joint arrangements where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not be reversed in the foreseeable future.

Deferred income tax is measured using tax rates of the period in which temporary difference is expected to be reversed, based on tax rates and tax laws that have been enacted or substantially enacted by the end of the reporting period.

Deferred tax assets are recognised only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax assets and liabilities balances relate to the same or different taxable entities which intend either to settle current tax liabilities and assets on a net basis.

## 7.17 Deferred remuneration under agreement

The Company has an obligation to make a payment to the buyer (PTT) under the conditions in the Gas Sales Agreement of Arthit project. The remuneration is classified as non-current asset, presented under the caption "Other non-current assets", and amortised over contract life using the straight-line method.

## 7.18 Leases

## For the year ended 31 December 2020

Leases – where the Group is lessee

Leases are recognised as a right-of-use asset and a corresponding liability at the date at which the leased asset is available for use by the Group. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to profit or loss over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the liability for each period. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term on a straight-line basis.

The Group allocates the consideration in the contract to the lease and non-lease components based on their relative stand-alone prices. In the event that the Group cannot allocate the lease and non-lease components, the Group elected not to separate lease and non-lease components and instead accounts for these as a single lease component. Assets and liabilities arising from a lease are initially measured at a present value basis. Lease liabilities include the net present value of the following lease payments:

- Fixed payments (including in-substance fixed payments), less any lease incentives receivable
- Variable lease payment that are based on an index or a rate
- Amounts expected to be payable by the lessee under residual value guarantees
- The exercise price of a purchase option if the lessee is reasonably certain to exercise that option, and
- Payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

Lease payments under the extension options period are also included in the measurement of the liability, if the Group is reasonably certain about exercising its extension options.

The lease payments are discounted using the interest rate implicit in the lease. If that rate cannot be determined, the lessee's incremental borrowing rate is used, being the rate that the lessee would have to pay to borrow the funds necessary to obtain an asset of similar value in a similar economic environment with similar terms and conditions.

The Group is exposed to potential future increases in variable lease payments based on an index or rate, which are not included in the lease liability until they take effect. When adjustments to lease payments based on an index or rate take effect, the lease liability is reassessed and adjusted against the right-of-use asset.

Right-of-use assets are measured at cost comprising the following:

- The amount of the initial measurement of lease liability
- Any lease payments made at or before the commencement date less any lease incentives received
- Any initial direct costs, and
- Restoration costs.

Payments associated with short-term leases and leases of low-value assets are recognised on a straight-line basis as an expense in profit or loss. Short-term leases are leases with a lease term of 12 months or less. Low-value assets comprise computer and IT equipment.

## Leases - where the Group is the lessor

Assets leased under operating leases are included in property, plant and equipment in the statements of financial position. They are depreciated over their expected useful lives on a basis consistent with other similar property, plant and equipment owned by the Group. Rental income is recognised on a straight-line basis over the lease term.



60

## For the year ended 31 December 2019

## Leases - where the Group is the lessee

Leases of property, plant and equipment in which substantially all the risks and rewards of ownership are transferred to the lessee are classified as finance leases. Finance leases are capitalised at the inception of the lease at the lower of the fair value of the leased property or the net present value of the lease payments. Each lease payment is allocated to the principal and to the finance costs so as to achieve a constant interest rate on the liability balance outstanding. The outstanding rental obligations, net of finance costs, are included in liabilities. The interest expenses are recorded in the statements of income over the lease period so as to achieve a constant periodic rate of interest on the remaining balance of the liabilities for each period.

The property, plant and equipment acquired under finance leases are depreciated over the shorter period of the useful life of the asset or the lease term.

Leases in which a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases. Payments made under operating leases are charged to the statements of income on a straight-line basis over the lease period.

When an operating lease is terminated before the lease period has expired, any payment required to be made to the lessor by way of penalty is recognised as an expense in the period in which the termination takes place.

#### Leases - where the Group is the lessor

Assets leased out under operating leases are included in property, plant and equipment in the statements of financial position. They are depreciated over their expected useful lives on a basis consistent with other similar property, plant and equipment owned by the Group. Rental income is recognised on a straight-line basis over the lease term.

## 7.19 Financial liabilities

## For the year ended 31 December 2020

a) Classification

Financial instruments issued by the Group are classified as either financial liabilities or equity securities by considering contractual obligations.

- Where the Group has an unconditional contractual obligation to deliver cash or another financial asset to another entity, it is considered a financial liability unless there is a predetermined or possible settlement for a fixed amount of cash in exchange of a fixed number of the Group's own equity instruments.
- Where the Group has no contractual obligation or has an unconditional right to avoid delivering cash or another financial asset in settlement of the obligation, it is considered an equity instrument.

Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the reporting date.

#### b) Measurement

62

Financial liabilities are initially recognised at fair value and are subsequently measured at amortised cost.

## c) Derecognition and modification

Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled, or expired.

Where the terms of a financial liability are renegotiated/modified, the Group assesses whether the renegotiation / modification results in the derecognition of that financial liability. Where the modification results in an extinguishment, the new financial liability is recognised based on fair value of its obligation. The remaining carrying amount of financial liability is derecognised. The difference as well as proceed paid is recognised as other gains/(losses) in profit or loss.

Where the modification does not result in the derecognition of the financial liability, the carrying amount of the financial liability is recalculated as the present value of the renegotiated / modified contractual cash flows discounted at its original effective interest rate. The difference is recognised in other gains/(losses) in profit or loss.

#### For the year ended 31 December 2019

Financial liabilities are classified as (1) at fair value through statements of income, and (2) at amortised cost.

Financial liabilities are initially recognised at fair value. In case that financial assets or financial liabilities are not initially recognised at fair value through statements of income, they are recognised at the amount of fair value, net of the transaction costs directly attributable to the acquisition or the issue of such financial assets or financial liabilities. The subsequent measurement of financial assets or financial liabilities depends on their classification.

Financial liabilities measured at amortised cost are initially recognised at fair value, net of the transaction cost and are subsequently measured at amortised cost using the effective interest method with gains or losses recognised in the statements of income.

#### Borrowings and debentures

Borrowings and debentures are recognised initially at the fair value, net of directly attributable transaction costs incurred. Borrowings and debentures are subsequently stated at amortised cost.

Borrowings and debentures are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the reporting date.

## 7.20 Borrowing costs

General and specific borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, are added to the cost of those assets less investment income earned from these specific borrowings. The capitalisation of borrowing costs is ceased when substantially all of the activities necessary to prepare the qualifying assets for its intended use or sale are complete.

Other borrowing costs are recognised as expenses in the period in which they are incurred.

## 7.21 Employee benefits

The Group has recognised employee benefits based on the types of benefits which are post-employment benefits and other long-term benefits.

# a) Post-employment benefits

The Group has recognised both defined contribution and defined benefit plans as follows:

## Defined contribution plan

The Group's employees have become members of the following provident funds: "Employee of PTTEP Registered Provident Fund", "Sinsataporn Registered Provident Fund" and "TISCO Master Pooled Fund Registered Provident Fund".

The provident funds are funded by payments from employees and from the Group which are held in a separate trustee-administered fund. The Group contributes to the funds at a rate of 3% - 15% of the employees' salaries which are charged to the statements of income in the period the contributions are made.

# Employee retirement benefits

The Group's obligation in respect of the retirement benefit plans is calculated by estimating the amount of future benefits that employees will earn in return for their services to the Group in current and future periods. Such benefits are discounted to the present value. The employee benefits obligation is calculated by an independent actuary using the projected unit credit method. Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income (loss) in the period in which they arise.

Past-service costs are recognised immediately in the statements of income.

b) Other long-term benefits

The Group's other long-term benefits are benefits based on employees' length of service. The Group calculates the amount of these benefits according to the employees' service period.

The expected obligation of these benefits is calculated by independent actuarial experts and accrued over the period of employment based on the same accounting practice used for the employee retirement benefits. Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions will be recognised in the statements of income in the period in which they arise.

The Group recognises the obligation in respect of employee benefits in the statements of financial position under "Provision for Employee Benefits" as disclosed in Note 31.

# 7.22 Provisions

Provisions are recognised when the Group has a present legal or constructive obligation as a result of past events; it is probable that an outflow of resources will be required to settle the obligation; and the amount has been reliably estimated.

Provisions are measured at the present value of the expenditures expected to be required to settle the obligation. The increase in the provision due to passage of time is recognised as interest expense.



## 7.23 Capital management

The Group's objectives when managing capital are to safeguard its ability to continue as a going concern, to provide returns for shareholders and benefits for other stakeholders, and maintain an optimal capital structure to reduce the cost of capital.

#### 7.24 Other reserve for expansion

The Group considers to set aside a reserve for expanding its investments in new projects in the exploration phase, which is generally susceptible to high risk, and for exploration of additional petroleum reserves. The reserve for expansion is set aside at no more than 35% of the net taxable income from its exploration and production activities.

## 7.25 Revenue recognition

Revenue are recorded net of value added tax. They are recognised in accordance with the provision of goods or services, provided that collectibility of the consideration is probable.

Multiple element arrangements involving delivery or provision of multiple products or services are separated into individual distinct performance obligations. Total transaction price of the bundled contract is allocated to each performance obligation based on their relative standalone selling prices or estimated standalone selling prices. Each performance obligation is recognised as revenue on fulfillment of the obligation to the customer.

The Group has the revenue recognition in each category as follows:

#### Revenue from contracts with customers

Revenue from contracts with customers is recognised when the Group complete performance obligations at a point in time by transferring petroleum product to a customer and the control over the product is transferred to a customer whom the product is physically possessed. The revenue is measured at the fair value of the consideration which the Group expects to be entitled in exchange for petroleum product, provided that collectability of the consideration is probable. Inter-company sales revenue is excluded in the consolidated financial statements.

## Deferred income under agreements (Take-or-Pay)

Under the Gas Sales Agreements, the Group has obligations to supply minimum quantities of gas to a customer in each contract year. If in any contract year, the customer has not taken the minimum quantities of gas according to the Gas Sales Agreements, the customer shall pay for quantities of gas not taken (Take-or-Pay). If the customer is unable to take the minimum contracted quantities in a given year, the volume of gas that the customer has paid for but has not taken in that year (Make-up) can be taken free of charge in subsequent years. Payments received in advance under these agreements are recognised as deferred income. This deferred income is recognised in the statements of income when the gas is subsequently taken.

#### Interest income

Interest income is recognised based on time proportion basis considering on an effective interest rate of one point of time until the end of term and considering on an outstanding balance of the principal recognised in deferred income account of the Group.

## Dividend income

Dividend income is recognised when the right to receive payment is established.

## Other income

Other income is recognised on an accrual basis

## 7.26 Share capital

Ordinary shares with discretionary dividends are classified as equity.

Incremental costs directly attributable to the issue of new shares or options (net of tax) are shown as a deduction in equity.

## 7.27 Dividend distribution

Dividend distributed to the Company's shareholders is recognised as a liability when interim dividends are approved by the Board of Directors' meeting, and when the annual dividends are approved by the shareholders' meeting.

## 7.28 Earnings per share

Basic earnings per share are calculated by dividing the income for the year attributable to ordinary shareholders less interest expense for subordinated capital debentures by the weighted average number of ordinary shares outstanding during the year.

Diluted earnings per share are calculated by dividing the income for the year attributable to shareholders less interest expense for subordinated capital debentures by the weighted average number of ordinary shares outstanding during the year, adjusted with dilutive potential ordinary shares. The Company assumes that all dilutive potential ordinary shares are converted into ordinary shares.

## 7.29 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision-maker. The chief operating decision-maker is a person responsible for allocating resources and assessing performance of the operating segments that makes strategic decisions.

In considering the segment reporting, the chief operating decision-maker considers product types as well as geographical areas classified by business segments which are identified by different business activities that are subject to risks and returns that are different from those of other business segments.

## 7.30 Derivatives and hedging activities

a) Embedded derivative and derivatives that do not qualify for hedge accounting

Embedded derivative that is separately accounted for and derivatives that do not qualify for hedge accounting is initially recognised at fair value. Changes in the fair value are included in other gains (losses).

Fair value of derivatives is classified as a current or non-current following its remaining maturity.



## b) Hedge accounting

Derivatives are initially recognised at fair value on the date a derivative contract is entered into and are subsequently remeasured to their fair value at the end of each reporting period. The Group designates certain derivatives as either 1) hedges of the fair value of recognised assets or liabilities or 2) hedges of a particular risk associated with the cash flows of highly probable forecast transactions (cash flow hedges).

At inception of the hedge relationship, the Group documents i) the economic relationship between hedging instruments and hedged items including whether changes in the cash flows of the hedging instruments are expected to offset changes in the cash flows of hedged items and ii) its risk management objective and strategy for undertaking its hedge transactions.

The full fair value of a hedging derivative is classified as a current or non-current asset or liability following the maturity of related hedged item.

The fair values of derivative financial instruments designated in cash flow hedge relationships and movements in the hedging reserve in shareholders' equity are disclosed in Note 9.

## Cash flow hedges

The effective portion of changes in the fair value of derivatives that are designated and qualified as cash flow hedges is recognised in the cash flow hedge reserve within equity. The gain or loss relating to the ineffective portion is recognised immediately in profit or loss.

The Group applies hedge accounting on cross currency and interest rate swap and interest rate collar (zero cost collar) in hedge relationships that were being used to hedge the underlying assets and liabilities. The Group only designates the spot component of cross currency and interest rate swap and the intrinsic value of interest rate collar (zero cost collar) as hedging instrument. Gains or losses relating to the effective portion of the change in the spot component and intrinsic value are recognised in the cash flow hedge reserve within equity and recognised the changes in foreign currency basis spreads of cross currency and interest rate swap and time value of interest rate collar (zero cost collar) that relate to hedged items as the costs of hedging reserve within other comprehensive income of equity.

Amounts accumulated in equity are reclassified in the periods when the hedged item affects profit or loss.

The gain or loss relating to the effective portion of cross currency and interest rate swap and interest rate collar (zero cost collar) hedging variable rates borrowings and debentures is recognised in profit or loss within finance costs at the same time as the interest expense on the hedged borrowings and debentures.



## 7.31 Financial guarantee contracts

Financial guarantee contracts are recognised as a financial liability at the time the guarantee is issued. The liability is initially measured at fair value and subsequently at the higher of:

- The amount determined in accordance with the expected credit loss model under TFRS 9; and
- The amount initially recognised less the cumulative amount of income recognised in accordance with the principles of TFRS 15.

The fair value of financial guarantees is determined based on the present value of the difference in cash flows between a) the contractual payments required under the debt instrument; and b) the payments that would be required without the guarantee, or the estimated amount that would be payable to a third party for assuming the obligations.

The Group recognised guarantees associated with loans or other payables without compensation as part of the cost of the investment.

## 8 Financial risk management

The Group exposes to various risks from its business operations as follows:

## 8.1 Financial risk

The Group exposes to a variety of financial risks which comprise market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential effects on the Group's financial performance. The Group also uses derivative financial instruments to hedge certain exposures.

Financial risk management is centralised and carried out by the financial risk management function. The Group's financial risk management includes areas such as foreign exchange risk, interest rate risk, price risk, credit risk and liquidity risk. The framework parameters are approved by the Board of Directors and uses as the key communication and control tools for financial risk management function of the Group's subsidiaries.

## 8.1.1 Market risk

## a) Foreign exchange risk

The vast majority of the Group's domestic and overseas business (revenues and expenses) are in US Dollar and the Group has determined the US Dollar as the functional currency by considering from revenue and operating expenses used in the primary economic environment in which the entity operates. The Group's exposure to the foreign exchange risk arises from transactions which are denominated in currencies that are not the functional currency of each entity under the Group.

## Exposure

The Group and the Company has significant exposure to financial statements from transactions denominated in Baht at the end of the reporting period as follows:

|  |               | Conso         | lidated financia | al statements |
|--|---------------|---------------|------------------|---------------|
|  | 31 De         | ecember 2020  | 31 D             | ecember 2019  |
|  | Unit: Million | Unit: Million | Unit: Million    | Unit: Million |
|  | US Dollar     | Baht          | US Dollar        | Baht          |
|  |               |               |                  |               |
| Cash and cash equivalents                      | 260.54        | 7,825.82      | 392.59           | 11,838.23     |
| Trade and other receivables                    | 355.71        | 10,684.60     | 623.65           | 18,805.48     |
| Other current financial assets                 | -             | -             | 213.70           | 6,444.00      |
| Forward foreign exchange contracts - trading * | -             | -             | 100.04           | 3,016.55      |
| Cross currency and interest rate swaps - hedge |               |               |                  |               |
| derivative *                                   | 878.91        | 26,400.00     | 875.51           | 26,400.00     |
| Long-term loans to related parties             | 15.56         | 467.50        | 19.23            | 580.00        |
| Other non-current financial assets             | 0.24          | 7.31          | -                | -             |
| Other non-current assets                       | 5.23          | 157.15        | 4.98             | 150.18        |
|  |               |               |                  |               |
| Trade and other payables                       | (279.43)      | (8,393.36)    | (331.09)         | (9,983.57)    |
| Forward foreign exchange contracts - trading * | (1,008.37)    | (30,288.61)   | (1,594.67)       | (48,085.60)   |
| Lease liabilities                              | (16.12)       | (484.35)      | -                | -             |
| Debentures                                     | (878.35)      | (26,383.06)   | (874.71)         | (26,375.99)   |

|  |               | S             | eparate financia | al statements |
|--|---------------|---------------|------------------|---------------|
|  | 31 De         | ecember 2020  | 31 D             | ecember 2019  |
|  | Unit: Million | Unit: Million | Unit: Million    | Unit: Million |
|  | US Dollar     | Baht          | US Dollar        | Baht          |
| Cash and cash equivalents                      | 55.29         | 1,660.80      | 13.13            | 396.03        |
| Trade and other receivables                    | 277.30        | 8,329.20      | 521.42           | 15,722.91     |
| Other current financial assets                 | -             | -             | 0.21             | 6.34          |
| Forward foreign exchange contracts - trading*  | -             | -             | 100.04           | 3,016.55      |
| Cross currency and interest rate swaps – hedge |               |               |                  |               |
| derivative *                                   | 379.53        | 11,400.00     | 378.06           | 11,400.00     |
| Long-term loans to related parties             | 15.56         | 467.50        | 19.24            | 580.00        |
| Other non-current financial assets             | 0.24          | 7.07          | -                | -             |
| Other non-current assets                       | 5.11          | 153.34        | 4.83             | 145.75        |
|  |               |               |                  |               |
| Trade and other payables                       | (213.29)      | (6,406.73)    | (259.59)         | (7,827.58)    |
| Short-term loans from a related party          | (33.73)       | (1,013.21)    | (145.05)         | (4,373.73)    |
| Forward foreign exchange contracts - trading*  | (909.22)      | (27,310.35)   | (1,486.30)       | (44,817.87)   |
| Lease liabilities                              | (10.93)       | (328.20)      | -                | -             |
| Debentures                                     | (379.26)      | (11,391.99)   | (377.76)         | (11,391.04)   |
|  |               |               |                  |               |

\* These are disclosed with notional amount.

## Financial instruments used by the Group for risk management

The Group manages its foreign exchange risks on financial assets and financial liabilities those are not the Group's functional currency by balancing the structure and transactions, types of assets, liabilities and equity. In addition, the Group uses derivative instruments to manage and hedge the risks exposure of the foreign currency transaction while it also considers costs, effectiveness, and risks that may arise in each interval.

The Group used cross currency and and interest rate swaps, forward foreign exchange contracts and foreign currency options in a consistent manner to hedge firm and anticipated foreign exchange commitments and to manage its foreign exchange risk arising from future commercial transactions. The Group does not usually hedge its net investments in foreign operations except in circumstances where there is a material exposure arising from a currency that is anticipated to be volatile and the hedging is cost effective. Foreign currency borrowings are swapped into the entity's functional currency using cross currency and interest rate swaps, except where the foreign currency borrowings are repaid with cash flows generated in the same foreign currency. The purpose of these hedges is to mitigate the impact of movements in foreign exchange rates on assets and liabilities and the profit or loss of the Group.

The Group enters into cross currency and interest rate swaps, forward foreign exchange contracts and foreign currency options to hedge its exposure to foreign exchange risk. Under the Group's policy, the critical terms of these contracts must align with the hedged items. However, the Group do not apply hedge accounting for forward foreign exchange contracts and foreign currency options. As a result, gain or loss is recognised in profit or loss.

The Group only designates the spot component of cross currency and interest rate swap in hedge relationships. The spot component is determined with reference to relevant spot market exchange rates. The difference between the contracted forward rate and the spot market exchange rate is defined as the forward points. It is discounted, where material.

The changes in the forward element of the cross currency and interest rate swaps that relate to hedged items are deferred in the costs of hedging reserve.

The Group and the Company entered into a cross currency and interest rate swaps with 100% of total Thai Baht borrowings which are not matched with the Group's and the Company's functional currency.

Cross currency and interest rate swaps comprise of accrued interest income and expense which will be made twice a year, the due date of interest and principal of the cross currency and interest rate swaps are the same date as loan maturity date.



|                                    |          |                    |                            |               |             |               |               | Consolidated fin | <b>Consolidated financial statements</b> |
|------------------------------------|----------|--------------------|----------------------------|---------------|-------------|---------------|---------------|------------------|--|
|                                    |          |                    |                            |               |             |               |               | 3                | 31 December 2020                         |
|                                    |          |                    | Carrying amount of hedging | nt of hedging |             |               |               |                  |  |
| Hed                                | ging ins | Hedging instrument | instrument                 | nent          |             |               |               |                  |  |
|                                    |          | Contractual        |                            |               |             |               |               |                  |  |
|                                    |          | amount (Million    | Unit: Million              | Unit: Million |             |               | Contractual   | Swap rate        |  |
| Derivative                         | /e       | US Dollar)         | US Dollar                  | Baht          | Hedge ratio | Maturity date | exchange rate | received         | Swap rate paid                           |
| Cash flow hedge Cross currency and | by and   | 349.05             | 33.52                      | 1,006.72      | 1:1         | 6 June 2029   | 32.66         | 4.82%            | 4.99%                                    |
| interest rate swap                 | wap      | 480.00             | 15.53                      | 466.62        | 1:1         | 19 June 2022  | 31.25         | 2.26%            | 2.63% - 3.05%                            |
|                                    |          |                    |                            |               |             |               |               |                  |  |
|                                    |          |                    |                            |               |             |               |               |                  |  |

The Group's exposure of hedging instrument to financial position and performance are as follows:

|                                    |                                       |                       |             |               |               |           | CONSONAREA INTATICIAL STATEMENTS |
|------------------------------------|---------------------------------------|-----------------------|-------------|---------------|---------------|-----------|----------------------------------|
|                                    |                                       |                       |             |               |               |           | 31 December 2019                 |
| о<br>                              | Carrying amount of hedging instrument | it of hedging<br>nent |             |               |               |           |                                  |
| Contractual<br>amount (Million Uni | Unit: Million                         | Unit: Million         |             |               | Contractual   | Swap rate |                                  |
| US Dollar) US                      | <b>US Dollar</b>                      | Baht                  | Hedge ratio | Maturity date | exchange rate | received  | Swap rate paid                   |
| 9                                  | 64.10                                 | 1,932.75              | 1:1         | 6 June 2029   | 32.66         | 4.82%     | 4.99%                            |
| 19                                 | 19.58                                 | 590.46                | 1:1         | 19 June 2022  | 31.25         | 2.26%     | 2.63% - 3.05%                    |

70

|                 |                                    |                       |                      |                    |             |               |               | Separate finan<br>31 | Separate financial statements<br>31 December 2020 |
|-----------------|------------------------------------|-----------------------|----------------------|--------------------|-------------|---------------|---------------|----------------------|---|
|                 | Hedging instrument                 | rument                | Carrying amount of h | hedging instrument |             |               |               |                      |   |
|                 |                                    | Contractual<br>amount |                      |                    |             |               |               |                      |   |
|                 |                                    | (Million              | <b>Unit: Million</b> |                    |             |               | Contractual   | Swap rate            | Swap rate   |
| Type of hedge   | Derivative                         | US Dollar)            | US Dollar            | Unit: Million Baht | Hedge ratio | Maturity date | exchange rate | received             | paid  |
| Cash flow hedge | Cash flow hedge Cross currency and | 349.05                | 33.52                | 1,006.72           | 1:1         | 6 June 2029   | 32.66         | 4.82%                | 4.99%   |
|                 | interest rate swap                 |                       |                      |                    |             |               |               |                      |   |
|                 |                                    |                       |                      |                    |             |               |               |                      |   |

|                 |                                    |             |                      |                      |             |               |               | oebai are iii aii | oepai ale ilitaticiai statettetto |
|-----------------|------------------------------------|-------------|----------------------|----------------------|-------------|---------------|---------------|-------------------|-----------------------------------|
|                 |                                    |             |                      |                      |             |               |               | 31                | 31 December 2019                  |
|                 | Hedging instrument                 |             | Carrying amount of h | f hedging instrument |             |               |               |                   |                                   |
|                 |                                    | Contractual |                      |                      |             |               |               |                   |                                   |
|                 |                                    | amount      |                      |                      |             |               |               |                   |                                   |
|                 |                                    | (Million    | Unit: Million        |                      |             |               | Contractual   | Swap rate         | Swap rate                         |
| Type of hedge   | Derivative                         | US Dollar)  | US Dollar            | Unit: Million Baht   | Hedge ratio | Maturity date | exchange rate | received          | paid                              |
| Cash flow hedge | Cash flow hedge Cross currency and | 349.05      | 64.10                | 1,932.75             | 1:1         | 6 June 2029   | 32.66         | 4.82%             | 4.99%                             |
|                 | interest rate swap                 |             |                      |                      |             |               |               |                   |                                   |

#### Sensitivity analysis

As shown in the table above, the Group is primarily exposed to changes in Thai Baht and US Dollar exchange rates. The sensitivity of profit or loss to changes in the exchange rates arises mainly from financial assets and financial liabilities denominated in foreign currency other than its functional currency and the impact on profit before income tax arises. If the Group determines the exchange rate as at 31 December 2020 to be changed by 10% and holding all other variables constant, the impact on profit before income tax of the Group will be as follows:

|  | Consolidated f             | inancial statements                       |
|--|----------------------------|---|
|  | Unit: Million<br>US Dollar | Unit: Million Baht                        |
| 2020   |                            |   |
| Baht to 1 US Dollar exchange rate                |                            |   |
| - increase 10%                                   | 24.99                      | 750.63                                    |
| - decrease 10%                                   | (24.99)                    | (750.63)                                  |
|  |                            |   |
|  |                            |   |
|  | Separate f                 | inancial statements                       |
|  | Unit: Million              |   |
| 2020   | · ·                        | inancial statements<br>Unit: Million Baht |
| <b>2020</b><br>Baht to 1 US Dollar exchange rate | Unit: Million              |   |
|  | Unit: Million              |   |

## b) Interest rate risk

The Group's main interest rate risk arises from borrowings with variable rates. The Group's policy is to maintain an appropriate proportion of its borrowings at fixed rates and variable rates considering the Group's business operation. In doing so, the Group maintains its fixed interest rate borrowings at 80%. In addition, the Group considers entering into derivative such as interest rate collar (zero cost collar). The Group also considers costs, market conditions, and acceptable risk before entering into the financial instrument to manage interest rate risk.

Interest rate risk is the risk of changes in market value of interest rate which affect to the cash flow from assets and liabilities at variable rates. Therefore, the borrowing at variable rates is the cause of the Group's interest rate risk. The Group manages this risk by maintaining the proportion of borrowings at fixed rates and variable rates in the appropriate level and using interest rate collar (zero cost collar) to hedge the risk from the fluctuation of the change of the reference interest rate.



The exposure of the Group's borrowings to interest rate changes of the borrowings at the end of the reporting period are as follows:

|                       |               |            |            | Conso     | lidated financia | al statements |
|-----------------------|---------------|------------|------------|-----------|------------------|---------------|
|                       |               |            | 2020       |           |                  | 2019          |
|                       |               | Unit:      |            | Unit:     |                  |               |
|                       | Unit: Million | Million    | % of total | Million   | Unit: Million    | % of total    |
|                       | US Dollar     | Baht       | borrowings | US Dollar | Baht             | borrowings    |
| Variable rate         |               |            |            |           |                  |               |
| borrowings            | 594.66        | 17,861.83  | 17.36      | 593.26    | 17,889.20        | 17.99         |
| Fixed rate borrowings | 2,830.37      | 85,016.15  | 82.64      | 2,704.75  | 81,558.91        | 82.01         |
|                       | 3,425.03      | 102,877.98 | 100.00     | 3,298.01  | 99,448.11        | 100.00        |
| Ŭ                     | 3,425.03      | 102,877.98 | 100.00     | 3,298.01  | 99,448.11        | 10            |

|                       |               |              |            | S         | eparate financia | al statements |
|-----------------------|---------------|--------------|------------|-----------|------------------|---------------|
|                       |               |              | 2020       |           |                  | 2019          |
|                       |               |              |            | Unit:     |                  |               |
|                       | Unit: Million | Unit:        | % of total | Million   | Unit: Million    | % of total    |
|                       | US Dollar     | Million Baht | borrowings | US Dollar | Baht             | borrowings    |
| Fixed rate borrowings | 379.26        | 11,391.98    | 100.00     | 377.76    | 11,391.04        | 100.00        |
|                       | 379.26        | 11,391.98    | 100.00     | 377.76    | 11,391.04        | 100.00        |

The percentage of total borrowings shows the proportion of borrowings that are currently at variable rates and fixed rates in relation to the total amount of borrowings. An analysis by maturities is provided in Note 28.

## Financial instruments used by the Group for risk management

The Group enters into interest rate collar (zero cost collar), which represents 50% of total variable rate borrowing (2019: None). The interest rate collar (zero cost collar) comprise of put option with interest rate cap at 2.42% per annum and call option with interest rate floor at 0.20% per annum. The variable interest rate is reference to 6M LIBOR. At the end of the reporting period, the 6M LIBOR rate is at 0.26% per annum.

Under interest rate collar (zero cost collar), the reference interest rate will be determined in April and October according to the reference interest rate of the variable rate borrowings and in case either the reference interest rate exceeds the cap or falls below the floor, the net interest receivable and payable is required to be settled every 180 days. The settlement dates coincide with the dates on which is payable on the underlying variable rate borrowings.

|           |                      |                       |                                       |                      |             |                 | Consolidated 1       | <b>Consolidated financial statements</b> |
|-----------|----------------------|-----------------------|---------------------------------------|----------------------|-------------|-----------------|----------------------|--|
|           |                      |                       |                                       |                      |             |                 |                      | 31 December 2020                         |
|           | Hedging instrument   | trument               | Carrying amount of hedging instrument | nount of<br>strument |             |                 |                      |  |
|           |                      | Contractual<br>amount |                                       | Unit:                |             |                 |                      |  |
| Type of   |                      | (Million US           | Unit: Million                         | Million              |             |                 | Swap rate            |  |
| hedge     | Derivative           | Dollar)               | US Dollar                             | Baht                 | Hedge ratio | Maturity date   | received             | Swap rate paid                           |
| Cash flow | Interest rate collar | 300                   | (0.67)                                | (20.24)              | 1:1         | 21 October 2024 | Reference            | Reference interest                       |
| hedge     | (zero cost collar)   |                       |                                       |                      |             |                 | interest rate, as of | rate, as of                              |
|           |                      |                       |                                       |                      |             |                 | borrowing's          | borrowing's interest                     |
|           |                      |                       |                                       |                      |             |                 | interest rate reset  | rate reset date,                         |
|           |                      |                       |                                       |                      |             |                 | date, floats over    | floats below 0.20%                       |
|           |                      |                       |                                       |                      |             |                 | 2.42% per annum      | per annum                                |

The Group's exposure of interest rate-related hedging instrument to financial position and performance are as follows:

## Sensitivity analysis

Profit or loss is mainly sensitive to higher or lower interest expenses from borrowings as a result of changes in interest rates.

The Group is exposed to change in market rate of variable interest rate borrowings from financial institution. If the Group determines the interest rate to be changed and holding all other variables constant, the impact on profit before income tax of the Group will be as follows:

|               | Consolidate             | Consolidated financial statements |  |  |  |  |
|---------------|-------------------------|-----------------------------------|--|--|--|--|
|               | Unit: Million US Dollar | Unit: Million Baht                |  |  |  |  |
| 2020          |                         |                                   |  |  |  |  |
| Interest rate |                         |                                   |  |  |  |  |
| - Increase 1% | (3.98)                  | (124.58)                          |  |  |  |  |
| - Decrease 1% | 3.98                    | 124.58                            |  |  |  |  |

## c) Price risk

## Exposure

The Group's exposure to price risk arises from oil and petroleum product prices because the Group's selling price of petroleum products is reference to the world's crude oil price, which are fluctuated subject to various factors beyond its control.

Fluctuations in the world's crude oil prices directly affect the prices of the Group's crude oil and condensate, while the prices of natural gas, which is the main product of the Group, change in the same direction with the reference oil prices and other factors in the gas price formula. Contractual natural gas prices are adjusted every 6 to 24 months (lag time). The natural gas price will move corresponding to lower volatility compared to the prices of crude oil and condensate.

The Group has managed the price risk by analysing the impact of the level of oil price changes to revenue and net profit of the Group annually. The risk mitigation plan is reviewed by the Risk Management Committee and the Board of Directors in order to be used as the Group's operation framework.

As at 31 December 2020, the Group entered into oil price hedging derivatives for the year 2021 totalling 24.49 million barrel.

## Sensitivity analysis

The changes in oil price, holding all other variables constant, will impact fair value of oil price hedging derivative as at 31 December 2020 as follows:

|                        | Consolidated                               | d financial statements |  |  |
|------------------------|--|------------------------|--|--|
|                        | Unit: Million US Dollar Unit: Million Baht |                        |  |  |
| 2020                   |  |                        |  |  |
| Price per barrel       |  |                        |  |  |
| - Increase 1 US Dollar | (8.12)                                     | (244.05)               |  |  |
| - Decrease 1 US Dollar | 7.73                                       | 232.17                 |  |  |

## 8.1.2 Credit risk

## a) Risk management

The Group's policy to manage its credit risk is to enter into transactions with the customers who have good credit profiles. The majority of sales is made with PTT Public Company Limited, the parent company. In addition, the Group carefully assesses and regularly reviews the credit profiles of its customers.

The Group places deposits with the banks which are rated at investment grade level. The Group regularly assesses credit quality and stability of these banks by taking into account of their credit rating, investment portfolio, and other financial ratios which demonstrate their performance and the ability to control their business risks, such as debt to deposit ratio, non-performing loan to total loan ratio. These factors are used to manage risks and to consider the amount of bank deposit limit in order to ensure that deposits are well-diversified and to avoid concentration risks with individual bank together with the consideration yields and acceptable risk in each time interval.

Before entering into financial derivative contracts, the Group has assessed the financial position and credit worthiness, including setting up credit exposure limit, of counterparty bank in the same way as when the Group assesses banks before placing deposit as described above. Currently all banks in which the Group has entered into financial derivative contracts are rated at investment grade level. In addition, the Group has adjusted, based on the timing and type of transactions, the outstanding balance of each derivative financial instrument made with banks to reflect the riskadjusted exposure and has diversified transactions to avoid concentration risks with individual bank together with the costs, consideration yields and risks arising in each interval.

## b) Security

For some trade receivables, the Group may obtain security in the form of guarantees or letters of credit which can be called upon if the counterparty is in default under the terms of the agreement.

## c) Impairment of financial assets

The Group has following financial assets that are subject to the expected credit loss model as follows:

- Cash and cash equivalents
- Short-term investments
- Trade and other receivables
- Other current assets
- Short-term loans to a related party
- Long-term loans to related parties
- Other non-current financial assets
- Other non-current assets

Management consider that impairment loss of financial assets mentioned above are immaterial.

## 8.1.3 Liquidity risk

Liquidity risk is the risk that suitable sources of funding for the Group's business activities may not be available. The Group's contractual maturity of liabilities and interest, including the derivative contracts are as follows:

## a) Maturity of financial liabilities

The tables below analyse the maturity of financial liabilities grouping based on their contractual maturities. The amounts disclosed are the contractual undiscounted cash flows as at 31 December 2020.

|  |                           |                             | Conse                       | <b>Consolidated financial statements</b> | al statements                 |
|--|---------------------------|-----------------------------|-----------------------------|--|-------------------------------|
|  |                           |                             |                             | Unit: Mill                               | Unit: Million US Dollar       |
|  |                           |                             | Over 5                      |  | <b>Total carrying</b>         |
|  | Within 1 year             | 1 - 5 years                 | years                       | Total                                    | amount                        |
| Trade and other payables   | 879.91                    |                             |                             | 879.91                                   | 879.91                        |
| Other current liabilities  | 111.71                    | •                           | •                           | 111.71                                   | 111.71                        |
| Lease liabilities  | 150.34                    | 302.12                      | 118.89                      | 571.35                                   | 507.03                        |
| Contingent considerations from business acquisition                                  | 2.01                      | 3.81                        | •                           | 5.82                                     | 5.64                          |
| Contingent considerations from participating interest acquisition in a joint venture | 54.67                     | ı                           | ı                           | 54.67                                    | 53.31                         |
| Loans iron intancial insulutions – variable interest rate<br>Principal               |                           | 600.009                     |                             | 600.00                                   | 594.66                        |
| Interest expense*  | 7.59                      | 25.03                       | I                           | 32.62                                    | 1.35                          |
| Debentures – fixed interest rate<br>Princinal  |                           | 499.38                      | 2 369 53                    | 2 868 91                                 | 2 830 37                      |
| Interest expense*  | 109.47                    | 398.40                      | 1,506.53                    | 2,014.40                                 | 12.43                         |
| Forward foreign exchange contracts - net   | 40.24                     | ı                           | 1                           | 40.24                                    | 26.23                         |
|  |                           |                             |                             |  |                               |
|  |                           |                             | Conse                       | <b>Consolidated financial statements</b> | al statements                 |
|  |                           |                             |                             | Unit                                     | <b>Unit: Million Baht</b>     |
|  |                           | 1                           | Over 5                      |  | Total carrying                |
|  | Within 1 year             | 1 - 5 years                 | years                       | Total                                    | amount                        |
| Trade and other payables   | 26,429.92                 | •                           | ı                           | 26,429.92                                | 26,429.92                     |
| Other current liabilities  | 3,355.45                  |                             |                             | 3,355.45                                 | 3,355.45                      |
| Lease liabilities  | 4,515.87                  | 9,074.88                    | 3,570.99                    | 17,161.74                                | 15,229.62                     |
| Contingent considerations from business acquisition                                  | 60.46                     | 114.42                      | I                           | 174.88                                   | 169.36                        |
| Contingent considerations from participating interest acquisition in a joint venture | 1,642.13                  |                             |                             | 1,642.13                                 | 1,601.23                      |
| Principal<br>Interest expense*   | -<br>227.94               | 18,022.26<br>751.69         |                             | 18,022.26<br>979.63                      | 17,861.83<br>40.52            |
| Principal<br>Interest expense*<br>Forward foreign exchange contracts - net           | -<br>3,288.29<br>1,208.74 | 14,999.93<br>11,966.66<br>- | 71,173.81<br>45,251.73<br>- | 86,173.74<br>60,506.68<br>1,208.74       | 85,016.15<br>373.50<br>787.95 |

|  |   |                                | Š                                     | Separate financial statements           | al statements                  |
|--|---|--------------------------------|---------------------------------------|---|--------------------------------|
|  |   |                                |                                       | Unit: Mill                              | <b>Unit: Million US Dollar</b> |
|  |   |                                |                                       |   | Total carrying                 |
|  | Within 1 year                                       | 1 - 5 years                    | Over 5 years                          | Total                                   | amount                         |
| Trade and other payables   | 298.49  |                                |                                       | 298.49                                  | 298.49                         |
| Other current liabilities  | 2.63  |                                | •                                     | 2.63                                    | 2.63                           |
| Lease liabilities  | 26.83   | 30.99                          | 1.78                                  | 59.60                                   | 56.84                          |
| Debentures – fixed interest rate   |   |                                |                                       |   |                                |
| Principal  | •   |                                | 379.53                                | 379.53                                  | 379.26                         |
| Interest expense*  | 18.29   | 73.18                          | 64.02                                 | 155.49                                  | 2.66                           |
| Forward foreign exchange contracts – net   | 36.75   | •                              |                                       | 36.75                                   | 22.66                          |
|  |   |                                |                                       |   |                                |
|  |   |                                | Se                                    | Separate financial statements           | I statements                   |
|  |   |                                |                                       | Unit:                                   | <b>Unit: Million Baht</b>      |
|  |   |                                | I                                     |   | Total carrying                 |
|  | Within 1 year                                       | 1 - 5 years                    | Over 5 years                          | Total                                   | amount                         |
| Trade and other payables   | 8,965.93  | •                              |                                       | 8,965.93                                | 8,965.93                       |
| Other current liabilities  | 78.96   |                                |                                       | 78.96                                   | 78.96                          |
| Lease liabilities  | 805.92  | 930.92                         | 53.27                                 | 1,790.11                                | 1,707.38                       |
| Debentures – tixed interest rate<br>Princinal  |   | ,                              | 11 400 00                             | 11 400 00                               | 11 391 98                      |
| Interest expense*  | 549.48  | 2,197.92                       | 1,923.18                              | 4,670.58                                | 79.87                          |
| Forward foreign exchange contracts – net   | 1,103.88  | •                              | •                                     | 1,103.88                                | 680.52                         |
| The major assumptions for the data presented in the table above are that all the interest expenses are calculated based on the nominal interest rate and there is no change in aggregate principal amounts of loans other than repayment at scheduled maturity.<br>- Thai Baht liabilities were equivalent to US Dollar at the weighted average exchange rate between weighted average buying and selling rates announced by the Bank of Thailand on 30 December 2020 at Baht 30.0371 per US Dollar. | terest expenses<br>led maturity.<br>ge rate between | are calculated<br>weighted ave | based on the nom<br>age buying and se | inal interest rate<br>elling rates anno | e and there is<br>unced by the |

As at 31 December 2020, the Company has commitments from long-term loan and the guarantees of debentures and loans of its subsidiaries as disclosed in Note 40.3, the maturity date of obligations follows the maturity of loan agreements, debentures and loans of subsidiaries.

## b) Financing arrangements

The Group manages its liquidity risks by preparing cash flow forecasts and adjusting financial forecasts on a regular basis, entering into financing program, issuing short-term debt securities in order to access Thailand's capital market, as well as entering into credit facilities with financial institutions with the interest rate agreed in advance.

As at 31 December 2020, the outstanding principal amount and undrawn facilities are summarised below.

|                             |              | Con            | solidated financia | al statements |
|-----------------------------|--------------|----------------|--------------------|---------------|
|                             | Unit: Mill   | lion US Dollar | Unit:              | Million Baht  |
|                             |              | Undrawn        |                    | Undrawn       |
|                             | Credit limit | amount         | Credit limit       | amount        |
| Committed credit facility   | 599.75       | 599.75         | 18,014.83          | 18,014.83     |
| Uncommitted credit facility | 423.42       | 423.42         | 12,718.18          | 12,718.18     |

|                             |              |                 | Separate financi | ial statements  |
|-----------------------------|--------------|-----------------|------------------|-----------------|
|                             | Unit: Mi     | llion US Dollar | Uni              | t: Million Baht |
|                             |              | Undrawn         |                  | Undrawn         |
|                             | Credit limit | amount          | Credit limit     | amount          |
| Committed credit facility   | 199.75       | 199.75          | 6,000.00         | 6,000.00        |
| Uncommitted credit facility | 421.62       | 421.62          | 12,664.23        | 12,664.23       |

Thai Baht credit facility is translated to US Dollar using the weighted average exchange rate between weighted average buying and selling rates announced by the Bank of Thailand on 30 December 2020 at Baht 30.0371 per US Dollar.

The Company's International Credit Rating is comparable with the Sovereign Rating of Thailand and the National Credit Rating is at the AAA. As a result, the Company can access to the source of fund for the long-term loan at the interest rate approximate the market interest rate. For the years 2020 and 2019, the Company's credit ratings as assigned by prominent credit rating agencies are as follows:

|                               |                     | 2020                 |                     | 2019                 |
|-------------------------------|---------------------|----------------------|---------------------|----------------------|
|                               | Foreign<br>Currency | Domestic<br>Currency | Foreign<br>Currency | Domestic<br>Currency |
| Rating Agency                 |                     |                      |                     |                      |
| Moody's                       | Baa1                | Baa1                 | Baa1                | Baa1                 |
| Standard and Poor's           | BBB+                | BBB+                 | BBB+                | BBB+                 |
| Fitch Ratings                 | BBB+                | -                    | BBB+                | -                    |
| TRIS Rating (National Rating) | -                   | AAA                  | -                   | AAA                  |



## 8.2 Capital management

## 8.2.1 Risk management

Capital Risk Management

The Group manages capital to keep financial strength comparable with the leading companies in the same industry, alignment with the business strategy, economy, market positioning and finance cost as well as impact to the financial ratio and credit rating of the Company and providing the ultimate returns to shareholders and benefits to other stakeholders.

## 9 Derivatives and hedge accounting

Derivatives comprised:

|   |             | Co               | nsolidated finan | cial statements  |
|---|-------------|------------------|------------------|------------------|
|   | Unit: M     | illion US Dollar | Ur               | it: Million Baht |
|   | 31 December | 31 December      | 31 December      | 31 December      |
|   | 2020        | 2019             | 2020             | 2019             |
|   |             |                  |                  |                  |
| Current derivative assets               |             |                  |                  |                  |
| Derivatives                             |             |                  |                  |                  |
| - Oil price hedge                       | 4.35        | 12.09            | 130.67           | 364.53           |
| - Forward foreign exchange contracts    | 0.01        | 0.25             | 0.34             | 7.63             |
|   |             |                  |                  |                  |
| Non-current derivative assets           |             |                  |                  |                  |
| Derivatives used for hedging            |             |                  |                  |                  |
| - Cross currency and interest rate swap | 49.05       | 83.68            | 1,473.34         | 2,523.21         |
| Total derivative assets                 | 53.41       | 96.02            | 1,604.35         | 2,895.37         |

|   |             | Co               | nsolidated finan | cial statements   |
|---|-------------|------------------|------------------|-------------------|
|   | Unit: M     | illion US Dollar | Ur               | nit: Million Baht |
|   | 31 December | 31 December      | 31 December      | 31 December       |
|   | 2020        | 2019             | 2020             | 2019              |
|   |             |                  |                  |                   |
| Current derivative liabilities            |             |                  |                  |                   |
| Derivatives                               |             |                  |                  |                   |
| - Oil price hedge                         | 3.44        | 2.09             | 103.40           | 63.16             |
| - Forward foreign exchange contracts      | 26.23       | 13.12            | 787.95           | 395.60            |
|   |             |                  |                  |                   |
| Non-current derivative liabilities        |             |                  |                  |                   |
| Derivatives used for hedging              |             |                  |                  |                   |
| - Interest rate collar (zero cost collar) | 0.67        | -                | 20.24            | -                 |
| Total derivative liabilities              | 30.34       | 15.21            | 911.59           | 458.76            |



|   |             |                   | Separate finan | cial statements   |
|---|-------------|-------------------|----------------|-------------------|
|   | Unit: M     | lillion US Dollar | -              | nit: Million Baht |
|   | 31 December | 31 December       | 31 December    | 31 December       |
|   | 2020        | 2019              | 2020           | 2019              |
|   |             |                   |                |                   |
| Current derivative assets               |             |                   |                |                   |
| Derivatives                             |             |                   |                |                   |
| - Forward foreign exchange contracts    | -           | 0.25              | -              | 7.63              |
|   |             |                   |                |                   |
| Non-current derivative assets           |             |                   |                |                   |
| Derivatives used for hedging            |             |                   |                |                   |
| - Cross currency and interest rate swap | 33.52       | 64.10             | 1,006.72       | 1,932.75          |
| Total derivative assets                 | 33.52       | 64.35             | 1,006.72       | 1,940.38          |
|   |             |                   |                |                   |
|   |             |                   | Separate finan | icial statements  |
|   | Unit: M     | illion US Dollar  | U              | nit: Million Baht |
|   | 31 December | 31 December       | 31 December    | 31 December       |
|   | 2020        | 2019              | 2020           | 2019              |
|   |             |                   |                |                   |
| Current derivative liabilities          |             |                   |                |                   |
| Derivatives                             |             |                   |                |                   |
| - Forward foreign exchange contracts    | 22.66       | 12.03             | 680.52         | 362.65            |
| Total derivative liabilities            | 22.66       | 12.03             | 680.52         | 362.65            |

## 9.1 Classification of derivative financial instruments

Derivatives are only used for economic hedging purposes, not for speculative investments. The Group adopts hedge accounting for some derivatives which meet the condition of cash flow hedges instruments and determines the hedge ratio at 1:1 considering the relationship of the relevant transactions and risk factors between hedged items and hedging instruments. However, where derivatives do not meet the hedge accounting criteria, they are classified as 'held for trading' for accounting purposes and are accounted for at fair value through profit or loss.

The fair value of a hedging derivative is presented as current or non-current following the maturity of related hedged items.

## 9.2 Hedge effectiveness

Hedge effectiveness is determined at the inception of the hedge relationship, and through periodic effectiveness assessments, to ensure that an economic relationship exists between the hedged items and hedging instruments.

## Foreign exchange risk

For cross currency and interest rate swap, the Group enters into hedging transaction where the critical terms of the hedging instrument match exactly with the terms of the hedged item. The Group therefore performs a qualitative assessment of effectiveness. If changes in circumstances affect the terms of the hedged item such that the critical terms no longer match exactly with the critical terms of the hedging instrument, the Group uses the hypothetical derivative method to assess effectiveness.

In hedging of foreign currency on cross currency and interest rate swap, ineffectiveness may arise if there are changes in the credit risk of the derivative counterparty, a reduction in value of the hedge items, or a significant change in components of cross currency and interest rate swap.

## Interest rate risk

The Group enters into interest rate collar (zero cost collar) that have similar critical terms as the hedged item, such as reference rate, payment dates, maturities and notional amount. The Group does not hedge 100% of its loans, therefore the hedged item is identified as a proportion of the outstanding loans up to the notional amount of the interest rate collar (zero cost collar). As all critical terms matched during the year, there is an economic relationship.

Hedge ineffectiveness for interest rate collar (zero cost collar) is assessed using the same principles as for hedges of cross currency and interest rate swap. It may occur due to changes in the credit risk of the derivative counterparty and changes in critical terms between the interest rate collar (zero cost collar) and loans.

# 9.3 Cash flow hedge reserve

Hedging reserve includes costs of hedging and cash flow hedge reserve. The cash flow hedge reserve is used to recognise the effective portion of gains or losses on changes in fair value of derivatives that are qualified for hedge accounting.

The Group has hedging reserve presented in other comprehensive income comprising financial instruments as follows:

|  |                    |                          |              |                         |          | Consolidat               | <b>Consolidated financial statements</b> | atements                  |
|--|--------------------|--------------------------|--------------|-------------------------|----------|--------------------------|--|---------------------------|
|  |                    |                          | Unit: Millio | Unit: Million US Dollar |          |                          | Unit: N                                  | <b>Unit: Million Baht</b> |
|  | Coot of            | Spot                     |              |                         | Coot of  | Spot                     |  |                           |
|  | LOST OF<br>hedging | component<br>of currency | value of     |                         | hedging  | component<br>of currency | value of                                 |                           |
|  | reserve            | forwards                 | option       | Total                   | reserve  | forwards                 | option                                   | Total                     |
|  |                    |                          |              |                         |          |                          |  |                           |
| As at 1 January 2020   | 19.45              | 10.33                    |              | 29.78                   | 706.86   | 375.26                   | ı  | 1,082.12                  |
| Changes in fair value of hedging instruments recognised in OCI | ı                  | (20.93)                  | (0.01)       | (20.94)                 | ı        | (66.99)                  | (0.22)                                   | (667.21)                  |
| Costs of hedging deferred and recognised in OCI                | (14.37)            |                          | ı            | (14.37)                 | (458.03) | ·                        | ı  | (458.03)                  |
| Reclassified from OCI to profit or loss                        |                    |                          |              |                         |          |                          |  |                           |
| - Loss on exchange rate  |                    | (3.40)                   | I            | (3.40)                  | '        | (108.61)                 | ı  | (108.61)                  |
| Deferred tax   | 2.87               | 4.87                     | ı            | 7.74                    | 91.61    | 155.12                   | 0.04                                     | 246.77                    |
| As at 31 December 2020   | 7.95               | (9.13)                   | (0.01)       | (1.19)                  | 340.44   | (245.22)                 | (0.18)                                   | 95.04                     |
|  |                    |                          |              |                         |          |                          |  |                           |

|   |                               |   |                         |                               | Separate financial statements                                    | al statements             |
|---|-------------------------------|---|-------------------------|-------------------------------|--|---------------------------|
|   |                               | Unit: Milli                               | Unit: Million US Dollar |                               | Uni  | <b>Unit: Million Baht</b> |
|   | Cost of<br>hedging<br>reserve | Spot component<br>of currency<br>forwards | Total                   | Cost of<br>hedging<br>reserve | Cost of Spot component<br>edging of currency<br>reserve forwards | Total                     |
| As at 1 January 2020  | 17.42                         | 10.65                                     | 28.07                   | 572.37                        | 349.74   | 922.11                    |
| Changes in fair value of hedging instrument recognised in OCI                             |                               | (18.72)                                   | (18.72)                 |                               | (200.02)   | (596.07)                  |
| Cost of hedging deferred and recognised in OCI<br>Reclassified from OCI to profit or loss | (11.86)                       |   | (11.86)                 | (377.83)                      |  | (377.83)                  |
| - Loss on exchange rate   |                               | (1.47)                                    | (1.47)                  |                               | (46.86)  | (46.86)                   |
| Deferred tax  | 2.37                          | 4.04                                      | 6.41                    | 75.57                         | 128.58   | 204.15                    |
| As at 31 December 2020  | 7.93                          | (5.50)                                    | 2.43                    | 270.11                        | (164.61)   | 105.50                    |

## 9.4 Amounts recognised in profit or loss

In addition to the amounts reclassified from hedge reserve as disclosed in Note 9.3, the following amounts recognised in profit or loss relating to derivatives:

|  | Consolida | ted financial statements<br>Unit: Million US Dollar |
|--|-----------|---|
| For the year ended 31 December   | 2020      | 2019  |
| Net gain (loss) on derivatives that do not qualify for hedge accounting, presented in gain (loss) on revaluation of                  |           |   |
| financial instruments  | 116.62    | (106.12)  |
|  | Consolida | ted financial statements                            |
|  |           | Unit: Million Baht                                  |
| For the year ended 31 December   | 2020      | 2019  |
| Net gain (loss) on derivatives that do not qualify for hedge accounting, presented in gain (loss) on revaluation of                  |           | ()  |
| financial instruments  | 3,758.71  | (3,305.21)  |
|  | Separ     | ate financial statements                            |
|  |           | Unit: Million US Dollar                             |
| For the year ended 31 December   | 2020      | 2019  |
| Loss on derivatives that do not qualify for hedge accounting,<br>presented in gain (loss) on revaluation of financial<br>instruments | (13.55)   | (71.90)   |
| instanients  | (10.00)   | (71.30)   |
|  |           |   |
|  | Separ     | ate financial statements                            |
|  |           | Unit: Million Baht                                  |
| For the year ended 31 December   | 2020      | 2019  |
| Loss on derivatives that do not qualify for hedge accounting, presented in gain (loss) on revaluation of financial                   |           |   |
| instruments  | (444.13)  | (2,254.08)  |



## **10** Critical accounting estimates and judgements

Estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

## **10.1 Estimation of Petroleum Reserves**

Petroleum reserves are key elements in the Group's investment decision-making process. They are also important elements in testing for impairment. Changes in proved reserves will also affect the present value of the net cash flows and depreciation calculated using the unit-of-production method.

Proved reserves are the quantities of petroleum that are demonstrated with reasonable certainty to be commercially producible in future years from known reservoirs under existing economic and operating conditions including government rules and regulations. The proved reserves have to be examined and assessed annually by the Group's geologists and reservoir engineers.

## 10.2 Impairment of assets and goodwill

In assessing the impairment of assets and goodwill the Group estimates using the discounted future cash flows which are based on management's key assumptions in relation to selling price using the future oil price, estimated future production volume based on a proved and probable reserves and gross margin rate. These assumptions are based on management's judgment and past experience as well as the future prediction that is believed to be reasonable in the present situation. Changes in the information or new noticeable information may lead to the change in the assumptions and the discount rate for the estimation of the discounted future cash flows. The assumption of selling price is determined from the short-term oil price based on forward oil price curve and long-term oil price based on demand and supply of oil in the world market.

|   |                |                 |                            |            |        |         |         | CONSONNAIEN INIANCIAI STATEMENTS |                                |
|---|----------------|-----------------|----------------------------|------------|--------|---------|---------|----------------------------------|--------------------------------|
|   |                |                 |                            |            |        |         |         | Unit: Mill                       | <b>Unit: Million US Dollar</b> |
|   |                |                 | Exploration and production | production |        |         | Others  | Intercompany                     | Total                          |
|   | Southeast Asia | sia             |                            |            |        |         |         | elimination                      |                                |
|   |                | Other Southeast |                            |            |        |         |         |                                  |                                |
| For the year ended 31 December 2020                     | Thailand       | Asia            | Australia                  | America    | Africa | Others  |         |                                  |                                |
| Revenues - Third parties                                | 251.29         | 734.74          |                            | 1.38       |        | 225.32  | 31.78   |                                  | 1,244.51                       |
| - Related parties                                       | 3,290.36       | 821.21          | •                          |            | 43.28  |         | '       | (263.84)                         | 3,891.01                       |
| Other income  | 18.29          | 0.56            | 0.08                       | 0.06       | 0.02   | 0.02    | 112.88  | (104.67)                         | 27.24                          |
| Interest income   | 0.25           | 3.11            | 0.01                       | 0.02       | 6.45   | 0.21    | 0.02    | (0.02)                           | 10.05                          |
| Total revenues  | 3,560.19       | 1,559.62        | 0.09                       | 1.46       | 49.75  | 225.55  | 144.68  | (368.53)                         | 5,172.81                       |
| Operating expenses                                      | 461.36         | 513.89          |                            | 1.12       | 9.40   | 58.74   | 29.12   | (278.52)                         | 795.11                         |
| Exploration expenses                                    | 5.30           | 53.89           | 26.83                      | 5.89       | 1.83   | 10.54   | 0.04    |                                  | 104.32                         |
| Administrative expenses                                 | 31.49          | 62.34           | 1.02                       | 5.34       | 16.95  | 12.85   | 88.85   | (90.06)                          | 128.78                         |
| Petroleum royalties                                     | 408.12         | 1.89            |                            | 0.14       |        | ı       | '       |                                  | 410.15                         |
| Depreciation, depletion and amortisation                | 1,391.92       | 540.68          | 0.07                       | 0.24       | 29.97  | 87.68   | 8.81    | (2.62)                           | 2,056.75                       |
| (Gain) loss on foreign exchange rates                   | (18.20)        | (1.71)          | (0.26)                     | 1.55       | (0.02) | 0.06    | 0.41    |                                  | (18.17)                        |
| Finance costs   | 92.01          | 33.97           | 0.01                       | 0.06       | 0.99   | 3.00    | 0.11    | (0.35)                           | 129.80                         |
| Share of (profit) loss of associates and joint ventures | T              |                 | ı                          |            | ı      | 2.88    | (44.52) |                                  | (41.64)                        |
| Impairment loss on assets                               | 3.85           | 44.07           | •                          | 43.66      |        | ı       | •       | •                                | 91.58                          |
| Total expenses  | 2,375.85       | 1,249.02        | 27.67                      | 58.00      | 59.12  | 175.75  | 82.82   | (371.55)                         | 3,656.68                       |
| Segment profit (loss)                                   | 1,184.34       | 310.60          | (27.58)                    | (56.54)    | (9.37) | 49.80   | 61.86   | 3.02                             | 1,516.13                       |
| Depreciation - general                                  |                |                 |                            |            |        |         |         |                                  | (29.33)                        |
| Administrative expenses                                 |                |                 |                            |            |        |         |         |                                  | (185.34)                       |
| Operating profit  |                |                 |                            |            |        |         |         |                                  | 1,301.46                       |
| Other income, net                                       |                |                 |                            |            |        |         |         |                                  | 9.78                           |
| Interest income   |                |                 |                            |            |        |         |         |                                  | 26.67                          |
| Finance costs   |                |                 |                            |            |        |         |         |                                  | (124.68)                       |
| Gain on foreign exchange rates                          |                |                 |                            |            |        |         |         |                                  | 7.89                           |
| Gain on remeasuring financial instruments               |                |                 |                            |            |        |         |         |                                  | 99.33                          |
| Gain on debt modification                               |                |                 |                            |            |        |         |         |                                  | 22.31                          |
| Other expenses  |                |                 |                            |            |        |         |         |                                  | (20.34)                        |
| Profit before income taxes                              |                |                 |                            |            |        |         |         |                                  | 1,322.42                       |
| Income tax - Project                                    | (385.07)       | (165.62)        |                            | (0.02)     | 32.17  | (64.78) | (7.10)  |                                  | (590.42)                       |
| - Group   |                |                 |                            |            |        |         |         |                                  | (12.46)                        |
| Net profit (loss)                                       | 799.27         | 144.98          | (27.58)                    | (56.56)    | 22.80  | (14.98) | 54.76   |                                  | 719.54                         |

| For the year ended 31 December 2020<br>Revenues - Third parties |
|---|
| - Related parties<br>Other income                               |
| Interest income   |
| Total revenues  |
| Operating expenses  |
| Exploration expenses  |
| Administrative expenses   |
| Petroleum royalties   |
| Depreciation, depletion and amortisation                        |
| (Gain) loss on foreign exchange rates                           |
| Finance costs   |
| Share of (profit) loss of associates and joint ventur           |
| Impairment loss on assets                                       |
| Total expenses  |
| Segment profit (loss)   |
| Depreciation - general  |
| Administrative expenses   |
| Operating profit  |
| Other income, net   |
| Interest income   |
| Finance costs   |
| Gain on foreign exchange rates                                  |
| Gain on remeasuring financial instruments                       |
| Gain on debt modification                                       |
| Other expenses  |
| Profit before income taxes                                      |
| Income tax - Project  |
| - Group   |
| Net profit (loss)   |

|  |                 |                 |                            |               |            |                       | <b>Consolidated financial statements</b> | ial statements                                      |
|--|-----------------|-----------------|----------------------------|---------------|------------|-----------------------|--|---|
|  |                 |                 |                            |               |            |                       | Unit: Mil                                | Unit: Million US Dollar                             |
|  |                 |                 | Exploration and production | oduction      |            |                       | Others                                   | Total   |
|  | Southeast Asia  | Asia            |                            |               |            |                       |  |   |
|  | 0               | Other Southeast |                            |               |            |                       |  |   |
| As at 31 December 2020   | Thailand        | Asia            | Australia                  | America       | Africa     | Others                |  |   |
| Segment assets   | 6,266.03        | 6,120.17        | 307.90                     | 293.20        | 3,862.90   | 944.21                | 102.19                                   | 17,896.60   |
| Investments under equity method<br>Unallocated assets  | 1               |                 | 4.97                       |               |            | 63.42                 | 381.82                                   | 450.21<br>4,146.64                                  |
| Total assets   |                 |                 |                            |               |            |                       |  | 22,493.45   |
| Segment liabilities  | 4,050.43        | 1,814.04        | 15.05                      | 7.41          | 590.75     | 442.99                | 56.43                                    | 6,977.10  |
| Unallocated liabilities  |                 |                 |                            |               |            |                       |  | 3,717.23  |
| Total liabilities  |                 |                 |                            |               |            |                       |  | 10,694.33   |
| Capital expenditures   | 875.33          | 351.87          | 0.01                       | 18.42         | 235.82     | 108.66                | 44.99                                    | 1,635.10  |
|  |                 |                 |                            |               |            |                       |  |   |
|  |                 |                 |                            |               |            |                       | Consolidated financial statements        | cial statements                                     |
|  |                 |                 |                            |               |            |                       | Ō  | <b>Unit: Million Baht</b>                           |
|  |                 |                 | Exploration and production | oduction      |            |                       | Others                                   | Total   |
|  | Southeast Asia  | sia             |                            |               |            |                       |  |   |
|  |                 | Other Southeast |                            |               |            |                       |  |   |
| As at 31 December 2020   | Thailand        | Asia            | Australia                  | America       | Africa     | Others                |  |   |
| Segment assets<br>Investments under equity method<br>Unallocated assets<br><b>Total assets</b> | 188,213.21<br>- | 183,831.84<br>- | 9,248.35<br>149.32         | 8,806.97<br>- | 116,030.25 | 28,361.22<br>1,904.95 | 3,069.62<br>11,468.70                    | 537,561.46<br>13,522.97<br>124,552.67<br>675,637.10 |
| Segment liabilities<br>Unallocated liabilities<br><b>Total liabilities</b>                     | 121,663.07      | 54,488.48       | 452.15                     | 222.42        | 17,744.46  | 13,306.12             | 1,694.77                                 | 209,571.47<br>111,654.74<br>321,226.21              |
| Capital expenditures   | 27,376.74       | 11,004.90       | 0.16                       | 576.18        | 7,375.35   | 3,398.31              | 1,407.27                                 | 51,138.91   |
|  |                 |                 |                            |               |            |                       |  |   |

89

|  |                |                 |                            |           |        |         | ပိ      | <b>Consolidated financial statements</b> | al statements                  |
|--|----------------|-----------------|----------------------------|-----------|--------|---------|---------|--|--------------------------------|
|  |                |                 |                            |           |        |         |         | Unit: Mill                               | <b>Unit: Million US Dollar</b> |
|  |                |                 | Exploration and production | roduction |        |         | Others  | Intercompany                             | Total                          |
|  | Southeast Asia | Asia            |                            |           |        |         |         | elimination                              |                                |
|  |                | Other Southeast |                            |           |        |         |         |  |                                |
| For the year ended 31 December 2019      | Thailand       | Asia            | Australia                  | America   | Africa | Others  |         |  |                                |
| Revenues - Third parties                 | 275.73         | 837.98          |                            | 0.41      | ·      | 52.95   | 11.55   |  | 1,178.62                       |
| - Related parties                        | 4,280.74       | 957.27          |                            |           | 66.79  |         | •       | (320.61)                                 | 4,984.19                       |
| Other income                             | 19.57          | 4.64            | 4.25                       |           |        |         | 122.74  | (110.06)                                 | 41.14                          |
| Interest income                          | 0.82           | 2.60            | 0.07                       | 0.01      | 11.98  | 0.07    | 0.11    | (0.11)                                   | 15.55                          |
| Total revenues                           | 4,576.86       | 1,802.49        | 4.32                       | 0.42      | 78.77  | 53.02   | 134.40  | (430.78)                                 | 6,219.50                       |
| Operating expense                        | 486.49         | 557.32          |                            | 0.35      | 12.99  | 10.95   | 17.20   | (334.62)                                 | 750.68                         |
| Exploration expenses                     | 1.61           | 104.19          | 2.80                       | 5.17      | 0.07   | 14.26   |         |  | 128.10                         |
| Administrative expenses                  | 43.09          | 45.90           | 12.75                      | 4.74      | 23.79  | 7.29    | 93.57   | (97.58)                                  | 133.55                         |
| Petroleum royalties                      | 527.57         | 18.76           |                            |           |        |         | •       |  | 546.33                         |
| Depreciation, depletion and amortisation | 1,511.06       | 453.87          | 0.09                       | 0.12      | 29.94  | 13.47   | 3.27    | (3.61)                                   | 2,008.21                       |
| (Gain) loss on foreign exchange rates    | (39.64)        | (31.26)         | 1.08                       | 0.28      | 0.02   | 0.04    | (0.58)  |  | (20.06)                        |
| Finance costs                            | 104.71         | 37.90           | •                          |           | 0.72   | 1.21    | 0.15    | (18.20)                                  | 126.49                         |
| Share of (profit) loss of associates and |                |                 |                            |           |        |         |         |  |                                |
| joint ventures                           |                |                 | 2.16                       |           |        |         | (14.51) |  | (12.35)                        |
| Total expenses                           | 2,634.89       | 1,186.68        | 18.88                      | 10.66     | 67.53  | 47.22   | 99.10   | (454.01)                                 | 3,610.95                       |
| Segment profit (loss)                    | 1,941.97       | 615.81          | (14.56)                    | (10.24)   | 11.24  | 5.80    | 35.30   | 23.23                                    | 2,608.55                       |
| Depreciation - general                   |                |                 |                            |           |        |         |         |  | (17.84)                        |
| Administrative expenses                  |                |                 |                            |           |        |         |         |  | (250.23)                       |
| Operating profit                         |                |                 |                            |           |        |         |         |  | 2,340.48                       |
| Other income, net                        |                |                 |                            |           |        |         |         |  | 14.25                          |
| Interest income                          |                |                 |                            |           |        |         |         |  | 70.68                          |
| Finance costs                            |                |                 |                            |           |        |         |         |  | (108.48)                       |
| Gain on foreign exchange rates           |                |                 |                            |           |        |         |         |  | 38.53                          |
| Loss on remeasuring financial instrument |                |                 |                            |           |        |         |         |  | (109.40)                       |
| Profit before income taxes               |                |                 |                            |           |        |         |         |  | 2,246.06                       |
| Income tax - Project                     | (206.09)       | (192.09)        |                            | 0.09      | 2.97   | (21.29) | (6.37)  |  | (922.78)                       |
| - Group                                  |                |                 |                            |           |        |         |         |  | 245.78                         |
| Net profit (loss)                        | 1,235.88       | 423.72          | (14.56)                    | (10.15)   | 14.21  | (15.49) | 28.93   |  | 1,569.06                       |

|  |                |                         |                            |            |          |          |          | Consolidated financial statements | ncial statements          |
|--|----------------|-------------------------|----------------------------|------------|----------|----------|----------|-----------------------------------|---------------------------|
|  |                |                         |                            |            |          |          |          | D                                 | <b>Unit: Million Baht</b> |
|  |                |                         | Exploration and production | production |          |          | Others   | Intercompany                      | Total                     |
|  | Southeast Asia | : Asia                  |                            |            |          |          |          | elimination                       |                           |
|  |                | Other                   |                            |            |          |          |          |                                   |                           |
| For the year ended 31 December 2019      | Thailand So    | Thailand Southeast Asia | Australia                  | America    | Africa   | Others   |          |                                   |                           |
| Revenues - Third parties                 | 8,562.87       | 25,804.49               |                            | 12.27      |          | 1,600.74 | 349.29   | •                                 | 36,329.66                 |
| - Related parties                        | 132,856.46     | 29,754.14               |                            |            | 2,076.11 | •        |          | (9,963.64)                        | 154,723.07                |
| Other income                             | 605.13         | 143.71                  | 130.10                     |            |          | 0.0      | 3,804.18 | (3,411.47)                        | 1,271.74                  |
| Interest income                          | 25.56          | 79.85                   | 2.40                       | 0.37       | 371.37   | 2.11     | 3.48     | (3.47)                            | 481.67                    |
| Total revenues                           | 142,050.02     | 55,782.19               | 132.50                     | 12.64      | 2,447.48 | 1,602.94 | 4,156.95 | (13,378.58)                       | 192,806.14                |
| Operating expenses                       | 15,065.24      | 17,233.86               |                            | 10.65      | 405.04   | 331.13   | 527.07   | (10,398.29)                       | 23,174.70                 |
| Exploration expenses                     | 49.58          | 3,214.06                | 85.74                      | 160.28     | 2.27     | 438.81   |          |                                   | 3,950.74                  |
| Administrative expenses                  | 1,336.57       | 1,419.85                | 396.85                     | 147.89     | 728.52   | 222.04   | 2,900.04 | (3,024.51)                        | 4,127.25                  |
| Petroleum royalties                      | 16,374.66      | 570.07                  |                            |            |          |          |          |                                   | 16,944.73                 |
| Depreciation, depletion and amortisation | 46,901.78      | 14,021.50               | 2.99                       | 3.62       | 930.91   | 407.13   | 100.63   | (111.56)                          | 62,257.00                 |
| (Gain) loss on foreign exchange rates    | (1,216.95)     | (955.16)                | 33.51                      | 8.62       | 0.62     | 1.15     | (17.89)  |                                   | (2,146.10)                |
| Finance costs                            | 3,254.80       | 1,173.14                |                            | (0.01)     | 22.51    | 36.56    | 4.43     | (566.54)                          | 3,924.89                  |
| Share of (profit) loss of associates and |                |                         |                            |            |          |          |          |                                   |                           |
| joint ventures                           | ı              |                         | 66.05                      |            | ı        | (0.01)   | (446.46) | ·                                 | (380.42)                  |
| Total expenses                           | 81,765.68      | 36,677.32               | 585.14                     | 331.05     | 2,089.87 | 1,436.81 | 3,067.82 | (14,100.90)                       | 111,852.79                |
| Segment profit (loss)                    | 60,284.34      | 19,104.87               | (452.64)                   | (318.41)   | 357.61   | 166.13   | 1,089.13 | 722.32                            | 80,953.35                 |
| Depreciation - general                   |                |                         |                            |            |          |          |          |                                   | (553.84)                  |
| Administrative expenses                  |                |                         |                            |            |          |          |          |                                   | (7,743.16)                |
| Operating profit                         |                |                         |                            |            |          |          |          |                                   | 72,656.35                 |
| Other income, net                        |                |                         |                            |            |          |          |          |                                   | 441.27                    |
| Interest income                          |                |                         |                            |            |          |          |          |                                   | 2,210.10                  |
| Finance costs                            |                |                         |                            |            |          |          |          |                                   | (3,365.75)                |
| Gain on foreign exchange rates           |                |                         |                            |            |          |          |          |                                   | 1,218.06                  |
| Loss on remeasuring financial instrument |                |                         |                            |            |          |          |          |                                   | (3,405.79)                |
| Profit before income taxes               |                |                         |                            |            |          |          |          |                                   | 69,754.24                 |
| Income tax - Project                     | (21,909.79)    | (5,952.36)              |                            | 2.67       | 92.46    | (643.63) | (197.13) |                                   | (28,607.78)               |
| - Group                                  |                |                         |                            |            |          |          |          |                                   | 7,656.08                  |
| Net profit (loss)                        | 38,374.55      | 13,152.51               | (452.64)                   | (315.74)   | 450.07   | (477.50) | 892.00   |                                   | 48,802.54                 |
|  |                |                         |                            |            |          |          |          |                                   |                           |

|  |                |                         |                            |               |                 |                       | Consolidated fine     | <b>Consolidated financial statements</b>            |
|--|----------------|-------------------------|----------------------------|---------------|-----------------|-----------------------|-----------------------|---|
|  |                |                         |                            |               |                 |                       | Unit:                 | Unit: Million US Dollar                             |
|  |                |                         | Exploration and production | oduction      |                 |                       | Others                | Total   |
|  | Southeast Asia | : Asia                  |                            |               |                 |                       |                       |   |
|  |                | Other Southeast         |                            |               |                 |                       |                       |   |
| As at ended 31 December 2019   | Thailand       | Asia                    | Australia                  | America       | Africa          | Others                |                       |   |
| Segment assets<br>Investments under equity method<br>Unallocated assets<br><b>Total assets</b> | 6,637.98<br>-  | 6,441.79<br>-           | 324.44<br>4.97             | 331.12<br>-   | 3,538.59<br>-   | 964.36<br>79.89       | 110.55<br>368.14      | 18,348.83<br>453.00<br>3,483.45<br>22,285.28        |
| Segment liabilities<br>Unallocated liabilities<br><b>Total Ilabilities</b>                     | 4,407.02       | 1,536.07                | 3.71                       | 5.23          | 570.07          | 425.91                | 45.52                 | 6,993.53<br>3,450.58<br>10,444.11                   |
| Capital expenditures   | 930.29         | 3,039.48                | 19.56                      | 10.49         | 132.29          | 804.87                | 78.33                 | 5,015.31  |
|  |                |                         |                            |               |                 |                       | Consolidated fine     | Consolidated financial statements                   |
|  |                |                         |                            |               |                 |                       |                       | <b>Unit: Million Baht</b>                           |
|  |                |                         | Exploration and production | production    |                 |                       | Others                | Total   |
|  | Southeast Asia | t Asia                  |                            |               |                 |                       |                       |   |
| As at ended 31 December 2019   | Thailand       | Other Southeast<br>Asia | Australia                  | America       | Africa          | Others                |                       |   |
| Segment assets<br>Investments under equity method<br>Unallocated assets<br><b>Total assets</b> | 200,161.48     | 194,245.72<br>-         | 9,783.19<br>149.90         | 9,984.71<br>- | 106,702.49<br>- | 29,079.32<br>2,408.86 | 3,333.70<br>11,100.89 | 553,290.61<br>13,659.65<br>105,040.03<br>671,990.29 |
| Segment liabilities<br>Unallocated liabilities<br><b>Total Iiabilities</b>                     | 132,889.12     | 46,318.64               | 112.01                     | 157.60        | 17,190.02       | 12,842.77             | 1,372.80              | 210,882.96<br>104,048.62<br>314,931.58              |
| Capital expenditures   | 28,871.66      | 93,823.70               | 606.98                     | 321.12        | 4,105.72        | 24,324.07             | 2,388.23              | 154,441.48  |
|  |                |                         |                            |               |                 |                       |                       |   |

During the year 2020, the Group has changed the basis of presentation of reportable operating segments in accordance with segment information reported to the chief operating decision-maker. The Group is organised into the following business segments:

- Exploration and production: The Group operates in oil and gas exploration and production both domestically and overseas, either as an operator or as a joint venture partner with international oil and gas companies. Most domestic projects are located in the Gulf of Thailand. Overseas projects are located in Southeast Asia, Australia, America, Africa and Others.
- The Group's other operations consist mainly of investments in related business associated with the Group's strategy, and other operations. These do not constitute a separately reportable segment.

The segment information for the year 2019 included in the financial statements has been adjusted retrospectively for comparative purposes.

For the year ended 31 December 2020, the Group has one major customer from revenues under the exploration and production segment, representing 76% of total revenues from sales. The mentioned revenue is presented in Note 17 (a) under the topic transactions with parent company (For the year ended 31 December 2019, the Group has one major customer from revenues under the exploration and production segment, representing 81% of total revenues from sales. The mentioned revenues is presented in Note 17 (a) under the topic transactions with parent company (For the year ended 31 December 2019, the Group has one major customer from revenues under the exploration and production segment, representing 81% of total revenues from sales. The mentioned revenues is presented in Note 17 (a) under the topic transactions with parent company).

| <i>'alue</i> |  |
|--------------|--|
| Fair v       |  |
| 42           |  |

## 12.1 Fair value estimation

The following tables present financial assets and liabilities recognised by their fair value hierarchy.

|   |             |             |             |             |             | Cons        | <b>Consolidated financial statements</b> | al statements                  |
|---|-------------|-------------|-------------|-------------|-------------|-------------|--|--------------------------------|
|   |             |             |             |             |             |             | Unit: Mil                                | <b>Unit: Million US Dollar</b> |
|   | Level 1     | el 1        | Lev         | Level 2     | Level 3     | el 3        | Total                                    | al                             |
|   | 31 December                              | 31 December                    |
|   |             | 2.04        | 2020        | 2.04        | 2020        | 2.04        | 0404                                     | 2 2 2                          |
| Assets  |             |             |             |             |             |             |  |                                |
| Financial derivatives assets  |             |             |             |             |             |             |  |                                |
| Derivatives assets used for hedging   |             |             |             |             |             |             |  |                                |
| <ul> <li>Cross currency and interest rate swap<br/>Derivatives assets measured at fair value</li> </ul> |             | ·           | 49.05       | 83.68       |             |             | 49.05                                    | 83.68                          |
| through profit or loss  |             |             |             |             |             |             |  |                                |
| - Oil price hedge   | I           | ı           | 4.35        | 12.09       | ı           | ı           | 4.35                                     | 12.09                          |
| - Forward foreign exchange contracts  | I           | ı           | 0.01        | 0.25        | ı           | ı           | 0.01                                     | 0.25                           |
| Other financial assets  |             |             |             |             |             |             |  |                                |
| Financial assets measured at rair value<br>through profit or loss                                       |             |             |             |             |             |             |  |                                |
| - Investment in debt instruments  | 0.19        | 213.70      | '           |             | 1           |             | 0.19                                     | 213.70                         |
| Financial assets measured at fair value<br>through other comprehensive income                           |             |             |             |             |             |             |  |                                |
| - Investment in equity instruments  | 0.52        | 0.52        |             | ı           | 0.05        | ı           | 0.57                                     | 0.52                           |
| Other non-current assets<br>Assets measured at fair value through                                       |             |             |             |             |             |             |  |                                |
| profit or loss  |             |             |             |             |             |             |  |                                |
| - Pension scheme investments  |             |             |             |             |             |             |  |                                |
| from joint operation  | 54.88       | 44.88       | •           | •           |             | •           | 54.88                                    | 44.88                          |
| Total assets  | 55.59       | 259.10      | 53.41       | 96.02       | 0.05        |             | 109.05                                   | 355.12                         |
|   |             |             |             |             |             |             |  |                                |

|   |                     |                     |                     |                     |                     | Cons                | Consolidated financial statements<br>Unit: Million US Dollar | d financial statements<br>Unit: Million US Dollar |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---|
|   | Level 1             | el 1                | Lev                 | Level 2             | Level 3             | el 3                | Total  | al  |
|   | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020  | 31 December<br>2019                               |
| Liabilities   |                     |                     |                     |                     |                     |                     |  |   |
| Financial derivatives liabilities   |                     |                     |                     |                     |                     |                     |  |   |
| <ul> <li>Derivatives liabilities used for hedging</li> <li>Interest rate collar (zero cost collar)</li> </ul> | •                   |                     | 0.67                |                     | •                   | ·                   | 0.67   |   |
| Derivatives liabilities measured at fair<br>value through profit or loss                                      |                     |                     |                     |                     |                     |                     |  |   |
| - Oil price hedge   | I                   | I                   | 3.44                | 2.09                | I                   | ı                   | 3.44   | 2.09  |
| - Forward foreign exchange contracts  | I                   | I                   | 26.23               | 13.12               | I                   | ı                   | 26.23  | 13.12   |
| Other current liabilities<br>Financial liabilities measured at fair value<br>through profit or loss           |                     |                     |                     |                     |                     |                     |  |   |
| - Contingent considerations from  |                     |                     |                     |                     |                     |                     |  |   |
| business acquisition  | ı                   | ı                   | I                   |                     | 2.01                |                     | 2.01   |   |
| <ul> <li>Contingent considerations from<br/>participating interest acquisition in joint</li> </ul>            |                     |                     |                     |                     |                     |                     |  |   |
| venture   | •                   | •                   |                     | •                   | 53.31               | •                   | 53.31  |   |
| Other non-current liabilities<br>Financial liabilities measured at fair value                                 |                     |                     |                     |                     |                     |                     |  |   |
| through profit or loss  |                     |                     |                     |                     |                     |                     |  |   |
| business acquisition  | •                   |                     |                     |                     | 3.63                | 7.10                | 3.63   | 7.10  |
| - Contingent considerations from  |                     |                     |                     |                     |                     |                     |  |   |
| participating interest acquisition in joint<br>venture  |                     | ·                   | ·                   | ı                   |                     | 51.86               |  | 51.86   |
| Total liabilities   |                     |                     | 30.34               | 15.21               | 58.95               | 58.96               | 89.29  | 74.17   |
|   |                     |                     |                     |                     |                     |                     |  |   |

|   |                     |                     |                     |                     |                     | Cons                | Consolidated financial statements | al statements             |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------------------|---------------------------|
|   |                     |                     |                     |                     |                     |                     | Uni                               | <b>Unit: Million Baht</b> |
|   | Level               | el 1                | Level 2             | 12                  | Level 3             | 13                  | Total                             | al                        |
|   | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020               | 31 December<br>2019       |
| Assets  |                     |                     |                     |                     |                     |                     |                                   |                           |
| Financial derivatives assets  |                     |                     |                     |                     |                     |                     |                                   |                           |
| Derivatives assets used for hedging   |                     |                     |                     |                     |                     |                     |                                   |                           |
| - Cross currency and interest rate swap                                       | I                   | ı                   | 1,473.34            | 2,523.21            | I                   | I                   | 1,473.34                          | 2,523.21                  |
| Derivatives assets measured at fair value<br>through profit or loss           |                     |                     |                     |                     |                     |                     |                                   |                           |
| - Oil price hedge   |                     |                     | 130.67              | 364.53              | ı                   |                     | 130.67                            | 364.53                    |
| - Forward foreign exchange contracts  |                     |                     | 0.34                | 7.63                | I                   |                     | 0.34                              | 7.63                      |
| Other financial assets<br>Financial assets measured at fair value             |                     |                     |                     |                     |                     |                     |                                   |                           |
| through profit or loss  |                     |                     |                     |                     |                     |                     |                                   |                           |
| - Investment in debt instruments  | 5.81                | 6,444.00            | ·                   |                     |                     |                     | 5.81                              | 6,444.00                  |
| Financial assets measured at fair value<br>through other comprehensive income |                     |                     |                     |                     |                     |                     |                                   |                           |
| - Investment in equity instruments  | 15.44               | 15.81               | 1                   |                     | 1.50                |                     | 16.94                             | 15.81                     |
| Other non-current assets  |                     |                     |                     |                     |                     |                     |                                   |                           |
| Assets measured at fair value through profit                                  |                     |                     |                     |                     |                     |                     |                                   |                           |
| or loss   |                     |                     |                     |                     |                     |                     |                                   |                           |
| - Pension scheme investments  |                     |                     |                     |                     |                     |                     |                                   |                           |
| from joint operation  | 1,648.43            | 1,353.50            | •                   |                     | 1                   |                     | 1,648.43                          | 1,353.50                  |
| Total assets  | 1,669.68            | 7,813.31            | 1,604.35            | 2,895.37            | 1.50                | I                   | 3,275.53                          | 10,708.68                 |
|   |                     |                     |                     |                     |                     |                     |                                   |                           |

Financial Report 2020 PTT Exploration and Production Public Company Limited

-

|  |                     |                     |                     |                     |                     | SUOD                |                     | Consolidated financial statements<br>Unit: Million Baht |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---|
|  | Lev                 | Level 1             | Lev                 | Level 2             | Lev                 | Level 3             | Total               | tal   |
|  | 31 December<br>2020 | 31 December<br>2019                                     |
| Liabilities  |                     |                     |                     |                     |                     |                     |                     |   |
| Financial derivatives liabilities  |                     |                     |                     |                     |                     |                     |                     |   |
| Derivatives liabilities used for hedging   |                     |                     |                     |                     |                     |                     |                     |   |
| - Interest rate collar (zero cost collar)  | I                   |                     | 20.24               | ı                   |                     |                     | 20.24               | ı   |
|  |                     |                     |                     |                     |                     |                     |                     |   |
| - Oil price hedge  | •                   |                     | 103.40              | 63.16               |                     |                     | 103.40              | 63.16   |
| - Forward foreign exchange contracts   | ı                   |                     | 787.95              | 395.60              | ·                   |                     | 787.95              | 395.60  |
| Other current liabilities<br>Financial liabilities measured at fair value                          |                     |                     |                     |                     |                     |                     |                     |   |
| through profit or loss   |                     |                     |                     |                     |                     |                     |                     |   |
| <ul> <li>Contingent considerations from</li> </ul>   |                     |                     |                     |                     |                     |                     |                     |   |
| business acquisition   | •                   |                     | '                   |                     | 60.46               |                     | 60.46               | I   |
| <ul> <li>Contingent considerations from<br/>participating interest acquisition in joint</li> </ul> |                     |                     |                     |                     |                     |                     |                     |   |
| venture  | •                   | •                   | •                   | ·                   | 1,601.23            | •                   | 1,601.23            | •   |
| Other non-current liabilities  |                     |                     |                     |                     |                     |                     |                     |   |
| Financial liabilities measured at rair value<br>through profit or loss                             |                     |                     |                     |                     |                     |                     |                     |   |
| - Contingent considerations from   |                     |                     |                     |                     |                     |                     |                     |   |
| business acquisition   | ı                   | '                   |                     | '                   | 108.90              | 213.94              | 108.90              | 213.94  |
| <ul> <li>Contingent considerations from<br/>participating interest acquisition in joint</li> </ul> |                     |                     |                     |                     |                     |                     |                     |   |
| venture  | •                   |                     | '                   |                     |                     | 1,563.84            |                     | 1,563.84  |
| Total liabilities  | I                   |                     | 911.59              | 458.76              | 1,770.59            | 1,777.78            | 2,682.18            | 2,236.54  |

|  |                     |                     |                     |                     |                     | S                   | Separate financial statements | al statements                  |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------------|--------------------------------|
|  |                     |                     |                     |                     |                     |                     | Unit: Mil                     | <b>Unit: Million US Dollar</b> |
|  | Level 1             | el 1                | Level 2             | el 2                | Level 3             | 13                  | Total                         | al                             |
|  | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020           | 31 December<br>2019            |
| Assets<br>Financial derivatives assets   |                     |                     |                     |                     |                     |                     |                               |                                |
| Derivatives assets used for hedging<br>- Cross currency and interest rate swap<br>Derivatives assets measured at fair value  | ı                   | ı                   | 33.52               | 64.10               | I                   | ı                   | 33.52                         | 64.10                          |
| through profit or loss<br>- Forward foreign exchange contracts<br>Other financial assets   | ı                   | ı                   | I                   | 0.25                | I                   | ı                   | ı                             | 0.25                           |
| Financial assets measured at fair value<br>through profit or loss<br>- Investment in debt instruments<br>Financial assets measured at fair value                     | 0.19                | 0.21                |                     |                     |                     |                     | 0.19                          | 0.21                           |
| unough oner comprehensive monte<br>- Investment in equity instruments<br>Total assets  | - 0.19              | -<br>0.21           | 33.52               | -<br>64.35          | 0.05<br>0.05        |                     | 0.05<br>33.76                 | -<br>64.56                     |
| Liabilities<br>Financial derivatives liabilities<br>Derivatives liabilities measured at fair value<br>through profit or loss<br>- Forward foreign exchange contracts |                     |                     | 22.66               | 12.03               |                     |                     | 22.66                         | 12.03                          |
| Total liabilities  | •                   | •                   | 22.66               | 12.03               | •                   | 1                   | 22.66                         | 12.03                          |

-

Notes to the Consolidated and Separate Financial Statements

98

Financial Report 2020 PTT Exploration and Production Public Company Limited

|  |                     |                     |                     |                     |                     |                     | Separate financial statements<br>Unit: Million Baht | ancial statements<br>Unit: Million Baht |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---|---|
|  | Lev                 | Level 1             | Level 2             | 912                 | Level 3             | el 3                | Total   | al                                      |
|  | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020                                 | 31 December<br>2019                     |
| Assets   |                     |                     |                     |                     |                     |                     |   |   |
| Financial derivatives assets   |                     |                     |                     |                     |                     |                     |   |   |
| Derivatives assets used for hedging  |                     |                     |                     |                     |                     |                     |   |   |
| - Cross currency and interest rate swap<br>Derivatives assets measured at fair value |                     |                     | 1,006.72            | 1,932.75            |                     |                     | 1,006.72  | 1,932.75                                |
| through profit or loss   |                     |                     |                     |                     |                     |                     |   |   |
| - Forward foreign exchange contracts   |                     |                     | '                   | 7.63                | ·                   | ·                   | •   | 7.63                                    |
| Other financial assets   |                     |                     |                     |                     |                     |                     |   |   |
| Financial assets measured at fair value  |                     |                     |                     |                     |                     |                     |   |   |
| through profit or loss   |                     |                     |                     |                     |                     |                     |   |   |
| - Investment in debt instruments<br>Einensial accode massured at fair volus          | 5.57                | 6.34                | •                   |                     |                     |                     | 5.57  | 6.34                                    |
| through other comprehensive income   |                     |                     |                     |                     |                     |                     |   |   |
| - Investment in equity instruments   |                     |                     | '                   |                     | 1.50                | ·                   | 1.50  |   |
| Total assets   | 5.57                | 6.34                | 1,006.72            | 1,940.38            | 1.50                |                     | 1,013.79  | 1,946.72                                |
| Liabilities  |                     |                     |                     |                     |                     |                     |   |   |
| Financial derivatives liabilities  |                     |                     |                     |                     |                     |                     |   |   |
| Derivatives liabilities measured at fair value                                       |                     |                     |                     |                     |                     |                     |   |   |
| in ough promor of ross<br>- Forward foreign exchange contracts                       |                     |                     | 680.52              | 362.65              |                     | I                   | 680.52  | 362.65                                  |
| Total liabilities  |                     | •                   | 680.52              | 362.65              | •                   | •                   | 680.52  | 362.65                                  |
|  |                     |                     |                     |                     |                     |                     |   |   |

•

The valuation of financial assets and financial liabilities fair value is based on accounting policy disclosed in Note 7.8 Financial assets and Note 7.20 Financial liabilities

## Transfer between fair value hierarchy

The Group has no transaction transfer between Level 1, Level 2, and Level 3 of the fair value hierarchy during the year.

## 12.2 Fair value valuation techniques

Fair values are categorised into hierarchy based on inputs used as follows:

## 12.2.1 Valuation techniques used to derive level 1 fair values

The fair value of financial instruments is based on quoted prices of each asset or liability by reference of active markets.

## 12.2.2 Valuation techniques used to derive level 2 fair values

The fair value of financial instruments is determined using valuation techniques which significantly use observable data and, as little as possible, the Group specific estimates.

Valuation techniques used to derive level 2 fair values of financial derivative instruments are as follows:

- Oil price hedge comprises oil price swaps and options. The fair value of oil price swaps is assessed based on the price level which is calculated using the market price of future contracts. The fair value of oil price options is calculated using premium which requires various variable factors, such as the price level of swap, timing of exercise, and price volatility.
- The fair value of forward contracts, including forward foreign exchange contracts with resettable option, are calculated using forward foreign exchange rates that are quoted in an active market for the forward contract portion. The fair value of resettable option is assessed based on various variable factors, such as future forward foreign exchange rate, the market value of swap price, timing of exercise, and foreign exchange rate volatility.
- The fair value of cross currency and interest rate swaps is calculated using forward interest rates derived from the yield curves in an observable interest market and forward foreign exchange rates that are quoted in an active market.
- The fair value of interest rate collar which is zero cost collar (option) is assessed based on various variable factors, such as the market price level of swap, reference rate, timing of exercise, and price volatility.

The discount factors do not significantly impact the level 2 fair value of derivative instruments.



## 12.2.3 Valuation techniques used to derive level 3 fair values

The fair value of financial instruments is measured using unobservable inputs in which the Group uses discounted cash flows method to derive level 3 fair value.

Changes in level 3 fair value of financial instruments for the year ended as at 31 December 2020 and 2019 are as follows:

|   |  |  | Consolidated fi  | nancial statements    |
|---|--|--|--|-----------------------|
|   |  |  | Uni  | it: Million US Dollar |
|   | Contingent<br>considerations<br>from business<br>acquisition | Contingent<br>considerations<br>from<br>participating<br>interest<br>acquisition in<br>joint venture | Financial assets<br>measured at fair<br>value through<br>comprehensive<br>income | Total                 |
| Opening balance as at 1 January 2019  | -  | -  | -  | -                     |
| Additions   | 7.10   | 51.22  | -  | 58.32                 |
| Changes recognised in profit or loss  | -  | 0.64   | -  | 0.64                  |
| Closing balance as at 31 December 2019  | 7.10   | 51.86  | -  | 58.96                 |
| Impact of adoption of TFRS 9  | -  | -  | 0.35   | 0.35                  |
| Disposals   | (1.71)   | -  | -  | (1.71)                |
| Reclassification  | -  | -  | (0.30)   | (0.30)                |
| Changes recognised in profit or loss<br>Changes recognised in other<br>comprehensive income | 0.25   | 1.45   | -  | 1.70                  |
| Closing balance as at 31 December 2020  | 5.64   | 53.31  | 0.05   | 59.00                 |

| n Baht      |
|-------------|
|             |
| Total       |
| -           |
| 803.44      |
| 19.86       |
| (45.52)     |
| 777.78      |
| 10.41       |
| (53.35)     |
| (9.30)      |
| 53.03       |
| 0.07 (6.55) |
| 772.09      |
| ,           |

Separate financial statements

0.05

0.05

1.44

0.07

(0.01)

1.50

Unit: Million US Dollar Financial assets measured at fair value through other comprehensive income

Opening balance as at 31 December 2019 Impact of adoption of TFRS 9 Changes recognised in other comprehensive income Closing balance as at 31 December 2020

| Separate financial statements           |
|---|
| Unit: Million Baht                      |
| Financial assets measured at fair value |
| through other comprehensive income      |

Opening balance as at 31 December 2019 Impact of adoption of TFRS 9 Changes recognised in other comprehensive income Currency translation differences Closing balance as at 31 December 2020

| ıts.   |
|--|
| ÷  |
|  |
| 5  |
| ¥  |
| Ē  |
| é  |
| 5  |
| S  |
| g  |
| Ð  |
| 3  |
| _  |
| Ψ  |
| <u> </u>   |
| g  |
| >  |
| .∟   |
| ത  |
| -  |
| t in level 3 fair value me                             |
| 5  |
| *  |
| á  |
|  |
|  |
|  |
| ed   |
| s used   |
| ñ  |
| ~  |
| ts<br>S  |
| ⊐  |
| ð  |
| ⊇.   |
| ~  |
| <u><u></u></u>   |
| <u>0</u>   |
| ۲a   |
| 2  |
| ē  |
| S  |
| <u> </u>   |
| Q  |
| Ę  |
| 2  |
| Ħ  |
| Ъ  |
| ö  |
| ÷  |
| e signif   |
| 5  |
|  |
|  |
| ē  |
| 긒  |
| ÷  |
|  |
| 0  |
| <u> </u>   |
| bo   |
| abo  |
| n abc  |
| ion abc  |
| ation abo  |
| nation abo   |
| mation abo   |
| ormation abo   |
| iformation abo   |
| information abo  |
| information a  |
| ve information abo                                     |
| ive information a                                      |
| ive information a                                      |
| ive information a                                      |
| ntitative information a                                |
| ntitative information a                                |
| uantitative information a                              |
| ntitative information a                                |
| uantitative information a                              |
| uantitative information a                              |
| uantitative information a                              |
| uantitative information a                              |
| uantitative information a                              |
| rises the quantitative information a                   |
| arises the quantitative information a                  |
| arises the quantitative information a                  |
| marises the quantitative information a                 |
| marises the quantitative information a                 |
| arises the quantitative information a                  |
| marises the quantitative information a                 |
| marises the quantitative information a                 |
| marises the quantitative information a                 |
| marises the quantitative information a                 |
| table summarises the quantitative information a        |
| g table summarises the quantitative information a      |
| ng table summarises the quantitative information a     |
| wing table summarises the quantitative information a   |
| lowing table summarises the quantitative information a |
| lowing table summarises the quantitative information a |
| lowing table summarises the quantitative information a |
| wing table summarises the quantitative information a   |
| lowing table summarises the quantitative information a |
| lowing table summarises the quantitative information a |
| lowing table summarises the quantitative information a |

|                                       |                 | Fair value   | lue      |                           |                             |               |               |
|---------------------------------------|-----------------|--------------|----------|---------------------------|-----------------------------|---------------|---------------|
|                                       | Unit: Million U | on US Dollar | Unit: I  | <b>Unit: Million Baht</b> |                             | Inputs        | Its           |
|                                       | 2020            | 2019         | 2020     | 2019                      | Unobservable inputs         | 2020          | 2019          |
| Contingent consideration              |                 |              |          |                           |                             |               |               |
| in a business combination             | 5.64            | 7.10         | 169.36   | 213.94                    | Risk-adjusted discount rate | 2.71% - 2.84% | 2.71% - 2.84% |
| Contingent consideration from         |                 |              |          |                           |                             |               |               |
| participating interest acquisition in |                 |              |          |                           |                             |               |               |
| joint venture                         | 53.31           | 51.86        | 1,601.23 | 1,563.84                  | Risk-adjusted discount rate | 2.62% - 2.91% | 2.62% - 2.91% |
|                                       |                 |              |          |                           |                             |               |               |

The following table presents the relationship of unobservable inputs to fair value:

|   |                             |          | Change in fair value           | fair value                     |
|---|-----------------------------|----------|--------------------------------|--------------------------------|
|   | Unobservable input          | Movement | Increase in assumption<br>2020 | Decrease in assumption<br>2020 |
|   |                             |          |                                |                                |
| Contingent consideration                            |                             |          |                                |                                |
| in a business combination                           | Risk-adjusted discount rate | 1.00%    | Decrease by 1.12%              | Increase by 1.16%              |
| Contingent consideration from                       |                             |          |                                |                                |
| participating interest acquisition in joint venture | Risk-adjusted discount rate | 1.00%    | Decrease by 0.91%              | Increase by 0.92%              |

## The Group's valuation processes

Significant unobservable input of fair value hierarchy level 3 is risk adjusted discount rate. It is estimated based on the Group's cost of debt.

The fair value of investments in unquoted equity, classified as financial assets and measured at fair value through comprehensive income, were assessed based on business plan and market conditions. Management considers that the fair values of the financial assets approximates their book value.

The following figures presented fair value and book value of financial liabilities for each category, but not include transaction which has a book value similar to fair value.

The details of fair values of long-term liabilities as at 31 December 2020 calculated by using the discounted cash flow based on a discount rate of borrowing with similar terms are as follows:

|   |            | C                 | onsolidated financ | ial statements  |
|---|------------|-------------------|--------------------|-----------------|
|   | Unit: Mi   | llion US Dollar   | Unit: Million Baht |                 |
|   | Book value | Fair value        | Book value         | Fair value      |
| Unsecured and unsubordinated debentures | 2,830.37   | 3,293.95          | 85,016.15          | 98,940.72       |
|   |            |                   | Separate financ    | ial statements  |
|   | Unit: M    | Aillion US Dollar | Uni                | t: Million Baht |
|   | Book value | Fair value        | Book value         | Fair value      |
| Unsecured and unsubordinated debentures | 379.26     | 450.26            | 11,391.98          | 13,524.62       |

Book value of unsecured and unsubordinated debentures is measured at amortised cost.

The fair value of debentures in Thai Baht is calculated using the reference price in the secondary market of Thai Bond Market Association that are quoted in an active market and classified as level 2 fair value.

The fair value of debentures in US Dollar is calculated using the reference observable price in the secondary market of foreign bond that are quoted in an active market and classified as level 2 fair value.

The fair value of the following financial assets and liabilities approximates their book value.

The book value of long-term loans to related parties and long-term loans approximate their fair values, since their interest rates are close to market rate.

| Consolidated financial statements                      | Separate financial statements                           |
|--|---|
| Financial assets                                       | Financial assets  |
| Cash and cash equivalents                              | <ul> <li>Cash and cash equivalents</li> </ul>           |
| Short-term investments                                 | Short-term investments                                  |
| Trade and other receivables                            | <ul> <li>Trade and other receivables</li> </ul>         |
| Other current assets                                   | <ul> <li>Short-term loans to related parties</li> </ul> |
| <ul> <li>Long-term loans to related parties</li> </ul> | Other current assets                                    |
| Other non-current assets                               | <ul> <li>Long-term loans to related parties</li> </ul>  |
|  | Other non-current assets                                |
| Financial liabilities                                  | Financial liabilities                                   |
| Trade and other payable                                | <ul> <li>Trade and other payable</li> </ul>             |
| Lease liabilities                                      | Lease liabilities                                       |
| Other current liabilities                              | Other current liabilities                               |
| Long-term loans  |   |

## 13 Cash and cash equivalents

Cash and cash equivalents comprised:

|                                      | Consolidated financial statements |               |                    |           |
|--------------------------------------|-----------------------------------|---------------|--------------------|-----------|
|                                      | Unit: Milli                       | ion US Dollar | Unit: Million Baht |           |
|                                      | 31                                | 31            | 31                 | 31        |
|                                      | December                          | December      | December           | December  |
|                                      | 2020                              | 2019          | 2020               | 2019      |
|                                      |                                   |               |                    |           |
| Cash and bank deposits               | 1,222.66                          | 1,867.51      | 36,725.19          | 56,312.82 |
| Cash equivalents                     |                                   |               |                    |           |
| Fixed deposits with banks            | 2,443.51                          | 900.56        | 73,395.82          | 27,155.62 |
| Treasury bill with maturity not over |                                   |               |                    |           |
| than 3 months                        | 37.67                             | 19.68         | 1,131.50           | 593.32    |
| Money market funds                   | 0.16                              | 35.15         | 4.86               | 1,059.88  |
| Total cash and cash equivalents      | 3,704.00                          | 2,822.90      | 111,257.37         | 85,121.64 |

|                                 | Separate financial statements |               |           |                |
|---------------------------------|-------------------------------|---------------|-----------|----------------|
|                                 | Unit: Mill                    | ion US Dollar | Unit      | : Million Baht |
|                                 | 31                            | 31            | 31        | 31             |
|                                 | December                      | December      | December  | December       |
|                                 | 2020                          | 2019          | 2020      | 2019           |
|                                 |                               |               |           |                |
| Cash and bank deposits          | 289.10                        | 45.24         | 8,683.61  | 1,364.07       |
| Cash equivalents                |                               |               |           |                |
| Fixed deposits with banks       | 830.00                        | 635.38        | 24,930.76 | 19,159.32      |
| Money market funds              | 0.16                          | 35.15         | 4.86      | 1,059.88       |
| Total cash and cash equivalents | 1,119.26                      | 715.77        | 33,619.23 | 21,583.27      |



## 14 Trade and other receivables

|  | Consolidated financial statement<br>Unit: Million US Dollar Unit: Million Bah |                  |                       |                       |
|--|---|------------------|-----------------------|-----------------------|
|  |   |                  | 31 December<br>2020   |                       |
| Trade receivables, net   | 572.15  | 793.77           | 17,185.75             | 23,935.12             |
| Other receivables, net<br>Total trade and other receivables, net | 218.61<br>790.76  | 189.43<br>983.20 | 6,566.43<br>23,752.18 | 5,712.32<br>29,647.44 |

|  | Separate financial statements |        |                    |             |
|--|-------------------------------|--------|--------------------|-------------|
|  | Unit: Million US Dollar       |        | Unit: Million Baht |             |
|  | 31 December 31 December       |        | 31 December        | 31 December |
|  | 2020                          | 2019   | 2020               | 2019        |
|  |                               |        |                    |             |
| Trade receivables, net                 | 280.03                        | 354.51 | 8,411.33           | 10,689.67   |
| Other receivables, net                 | 186.32                        | 361.58 | 5,596.44           | 10,903.30   |
| Total trade and other receivables, net | 466.35                        | 716.09 | 14,007.77          | 21,592.97   |

Aging of trade receivables can be analysed as follows:

|  | Consolidated financial statements |                |                    |             |
|--|-----------------------------------|----------------|--------------------|-------------|
|  | Unit: Mil                         | lion US Dollar | Unit: Million Baht |             |
|  | 31 December                       | 31 December    | 31 December        | 31 December |
|  | 2020                              | 2019           | 2020               | 2019        |
|  |                                   |                |                    |             |
| Not yet due  | 538.26                            | 763.88         | 16,167.94          | 23,033.91   |
| Over due   |                                   |                |                    |             |
| - Up to 3 months   | 3.59                              | 0.75           | 107.73             | 22.84       |
| - Over 3 months but not over 6 months                    | 0.30                              | -              | 9.01               | -           |
| <ul> <li>Over 6 months but not over 12 months</li> </ul> | -                                 | 27.91          | -                  | 841.54      |
| - Over 12 months   | 31.10                             | 2.33           | 934.20             | 69.96       |
|  | 573.25                            | 794.87         | 17,218.88          | 23,968.25   |
| Less Loss allowance from impairment                      |                                   |                |                    |             |
| (2019: Allowance for doubtful                            |                                   |                |                    |             |
| accounts under TAS101)                                   | (1.10)                            | (1.10)         | (33.13)            | (33.13)     |
| Total  | 572.15                            | 793.77         | 17,185.75          | 23,935.12   |

|  | Separate financial statements |               |                    |           |
|--|-------------------------------|---------------|--------------------|-----------|
|  | Unit: Milli                   | ion US Dollar | Unit: Million Baht |           |
|  | 31                            | 31            | 31                 | 31        |
|  | December                      | December      | December           | December  |
|  | 2020                          | 2019          | 2020               | 2019      |
|  |                               |               |                    |           |
| Not yet due                            | 250.50                        | 325.18        | 7,524.12           | 9,805.32  |
| Over due                               |                               |               |                    |           |
| - Up to 3 months                       | 0.07                          | 0.45          | 2.21               | 13.55     |
| - Over 3 months but not over 6 months  | 0.02                          | -             | 0.65               | -         |
| - Over 6 months but not over 12 months | -                             | 27.90         | -                  | 841.21    |
| - Over 12 months                       | 30.54                         | 2.08          | 917.48             | 62.72     |
|  | 281.13                        | 355.61        | 8,444.46           | 10,722.80 |
| Less Loss allowance from impairment    |                               |               |                    |           |
| (2019: Allowance for doubtful          |                               |               |                    |           |
| accounts under TAS101)                 | (1.10)                        | (1.10)        | (33.13)            | (33.13)   |
| Total                                  | 280.03                        | 354.51        | 8,411.33           | 10,689.67 |

Due to the short-term nature of the current receivables, their carrying amount is considered to be the same as their fair values.

## 15 Other current financial assets

The movements of other current financial assets for the year ended 31 December 2020 are as follows:

|                                  | Consolidated<br>financial statements |               | Separ<br>financial stateme |               |
|----------------------------------|--------------------------------------|---------------|----------------------------|---------------|
|                                  | Unit: Million                        | Unit: Million | Unit: Million              | Unit: Million |
|                                  | US Dollar                            | Baht          | US Dollar                  | Baht          |
|                                  |                                      |               |                            |               |
| Opening book value               | 213.70                               | 6,444.00      | 0.21                       | 6.34          |
| Increase                         | 423.03                               | 13,230.48     | 50.00                      | 1,563.79      |
| Decrease                         | (621.90)                             | (19,450.35)   | (50.20)                    | (1,570.09)    |
| Loss from change in fair value   | (0.82)                               | (26.06)       | -                          | -             |
| Foreign exchange differences     | (14.01)                              | (438.28)      | (0.01)                     | (0.28)        |
| Currency translation differences | -                                    | 240.21        | -                          | 0.24          |
| Closing book value               | -                                    | -             | -                          | -             |

Other current financial assets above is financial assets at fair value through profit or loss (FVPL). The Group's exposure on credit risk is related to investment in debt measured at FVPL. The ultimate risk at the end of reporting period is equivalent to the book value of the investment.



## 16 Inventories

|   | Consolidated financial statements |                   |                    |             |
|---|-----------------------------------|-------------------|--------------------|-------------|
|   | Unit: M                           | Million US Dollar | Unit: Million Baht |             |
|   | 31 December                       | 31 December       | 31 December        | 31 December |
|   | 2020                              | 2019              | 2020               | 2019        |
|   |                                   |                   |                    |             |
| Inventory                               | 24.24                             | 32.50             | 728.24             | 980.08      |
| Materials and supplies                  | 351.76                            | 321.25            | 10,565.84          | 9,686.88    |
|   | 376.00                            | 353.75            | 11,294.08          | 10,666.96   |
| Less Allowance for net realisable value | (0.88)                            | (0.41)            | (26.48)            | (12.29)     |
| Allowance for slow-moving and obsolete  | (37.02)                           | (23.01)           | (1,111.91)         | (693.71)    |
|   | (37.90)                           | (23.42)           | (1,138.39)         | (706.00)    |
| Total                                   | 338.10                            | 330.33            | 10,155.69          | 9,960.96    |

|   |             |                   | Separate finance   | cial statements |
|---|-------------|-------------------|--------------------|-----------------|
|   | Unit: I     | Million US Dollar | Unit: Million Baht |                 |
|   | 31 December | 31 December       | 31 December        | 31 December     |
|   | 2020        | 2019              | 2020               | 2019            |
|   |             |                   |                    |                 |
| Inventory                               | 3.11        | 5.33              | 93.47              | 160.72          |
| Materials and supplies                  | 115.64      | 111.63            | 3,473.62           | 3,366.12        |
|   | 118.75      | 116.96            | 3,567.09           | 3,526.84        |
| Less Allowance for net realisable value | -           | -                 | -                  | -               |
| Allowance for slow-moving and obsolete  | (19.20)     | (12.90)           | (576.80)           | (389.08)        |
|   | (19.20)     | (12.90)           | (576.80)           | (389.08)        |
| Total                                   | 99.55       | 104.06            | 2,990.29           | 3,137.76        |

#### 17 Significant transactions with related parties

Enterprises or individuals that directly, or indirectly through one or more intermediaries, control, or are controlled by, or are under common control with, the Company, including holding companies, subsidiaries and fellow subsidiaries are related parties of the Company. Associates and individuals owning, directly or indirectly, an interest in the voting power of the Company that gives them significant influence over the enterprise, key management personnel, directors and close members of the family of these individuals and companies associated with these individuals also constitute related parties.

In considering each possible related party relationship, the Company's attention is directed to the substance of the relationship, and not merely the legal form.

PTT Public Company Limited, a company registered in Thailand, is the major shareholder of the Company held in proportion of 63.79% of the shareholding interest. General public held the remaining shares.

Other related parties include major shareholders, associates and joint ventures of the Company, which have control in other related parties.

The pricing policies for transactions between parent company, subsidiaries, associates, joint ventures, joint operations and related parties are as follows:

- Sales are set based on market price.
- Interest income is calculated using weighted average cost of debt plus profit markup.
- The prices of purchases and services charged are in accordance with the conditions in the agreement.
- Rental expenses are set based on price in the agreement.
- Other expenses comprise management and service fees charged to the parent company, subsidiaries
  and related parties for rendering the management services in the normal course of business. The fees
  are based on the service costs plus profit markup.

Significant transactions with related parties are summarised as follows:

#### a) Transactions with related parties

Transactions with related parties for the year ended 31 December are as follows:

| Consolidated financial statements |  |  |  |
|-----------------------------------|--|--|--|
| lillion Baht                      |  |  |  |
| 2019                              |  |  |  |
|                                   |  |  |  |
|                                   |  |  |  |
| 152,646.96                        |  |  |  |
| 224.64                            |  |  |  |
| 146.33                            |  |  |  |
|                                   |  |  |  |
|                                   |  |  |  |
|                                   |  |  |  |
| 19.46                             |  |  |  |
| 194.88                            |  |  |  |
| 1,310.59                          |  |  |  |
|                                   |  |  |  |
|                                   |  |  |  |
| 2,076.12                          |  |  |  |
| 35.47                             |  |  |  |
| 1,546.70                          |  |  |  |
| 97.61                             |  |  |  |
|                                   |  |  |  |

|  | Separate financial statements |              |           |              |
|--|-------------------------------|--------------|-----------|--------------|
|  | Unit: Millio                  | on US Dollar | Unit:     | Million Baht |
|  | 2020                          | 2019         | 2020      | 2019         |
|  |                               |              |           |              |
| Parent company                           |                               |              |           |              |
| Revenue from sales                       | 2,587.80                      | 3,225.83     | 80,825.05 | 100,090.63   |
| Other income                             | 2.01                          | 3.04         | 62.81     | 94.44        |
| Purchase and other expenses              | 19.78                         | 4.47         | 618.77    | 138.86       |
|  |                               |              |           |              |
| Subsidiaries, associates, joint ventures |                               |              |           |              |
| and joint operations                     |                               |              |           |              |
| Interest income                          | 239.49                        | 275.78       | 7,495.77  | 8,549.21     |
| Other income                             | 2.48                          | 6.39         | 77.54     | 198.21       |
| Rental and service expenses              | 43.70                         | 41.10        | 1,366.80  | 1,275.42     |
|  |                               |              |           |              |
| Other related parties                    |                               |              |           |              |
| Other income                             | 0.34                          | 1.00         | 10.63     | 31.05        |
| Purchase and other expenses              | 21.64                         | 20.09        | 676.72    | 623.48       |
|  |                               |              |           |              |

### b) Account receivable - related parties

Account receivable - related parties comprised:

|                | Consolidated financial statements    |          |           |                |
|----------------|--------------------------------------|----------|-----------|----------------|
|                | Unit: Million US Dollar Unit: Millio |          |           | : Million Baht |
|                | 31                                   | 31       | 31        | 31             |
|                | December                             | December | December  | December       |
|                | 2020                                 | 2019     | 2020      | 2019           |
| Parent company | 424.39                               | 534.84   | 12,747.46 | 16,127.47      |

|             | Sep          | oarate financia | I statements        |
|-------------|--------------|-----------------|---------------------|
| Unit: Milli | on US Dollar | Unit:           | <b>Million Baht</b> |
| 31          | 31           | 31              | 31                  |
| December    | December     | December        | December            |
| 2020        | 2019         | 2020            | 2019                |
|             |              |                 |                     |
| 279.16      | 353.32       | 8,385.18        | 10,653.92           |

### c) Short-term loans to related parties

Parent company

Subsidiary

Short-term loans to related parties comprised:

|             |              | oarate financia |              |
|-------------|--------------|-----------------|--------------|
| Unit: Milli | on US Dollar | Unit:           | Million Baht |
| 31          | 31           | 31              | 31           |
| December    | December     | December        | December     |
| 2020        | 2019         | 2020            | 2019         |
|             |              |                 |              |
| 78.32       | 362.00       | 2,352.40        | 10,915.76    |

The Company has provided loans to a subsidiary for the year ended 31 December 2020 with an interest rate of 0.05% per annum (2019: interest rate is 0.50% - 1.05% per annum).



#### d) Long-term loans to related parties

Long-term loans to related parties comprised:

|                     | Consolidated financial statements |               |          |              |  |
|---------------------|-----------------------------------|---------------|----------|--------------|--|
|                     | Unit: Mill                        | ion US Dollar | Unit     | Million Baht |  |
|                     | 31                                | 31            | 31       | 31           |  |
|                     | December                          | December      | December | December     |  |
|                     | 2020                              | 2019          | 2020     | 2019         |  |
|                     |                                   |               |          |              |  |
| Associate           | 15.56                             | 19.24         | 467.50   | 580.00       |  |
| Other related party | 59.39                             | 66.82         | 1,783.63 | 2,014.92     |  |
|                     | 74.95                             | 86.06         | 2,251.13 | 2,594.92     |  |

|            |             | Separate financial statements |            |              |  |  |
|------------|-------------|-------------------------------|------------|--------------|--|--|
|            | Unit: Milli | on US Dollar                  | Unit:      | Million Baht |  |  |
|            | 31          | 31                            | 31         | 31           |  |  |
|            | December    | December                      | December   | December     |  |  |
|            | 2020        | 2019                          | 2020       | 2019         |  |  |
|            |             |                               |            |              |  |  |
| Subsidiary | 6,780.41    | 6,391.07                      | 203,663.63 | 192,716.37   |  |  |
| Associate  | 15.56       | 19.24                         | 467.50     | 580.00       |  |  |
|            | 6,795.97    | 6,410.31                      | 204,131.13 | 193,296.37   |  |  |

The Company has provided loans to a subsidiary for the year ended 31 December 2020 with an interest rate of 3.54% per annum (2019: interest rate is 4.62% per annum). The borrower shall make the repayment notice within this loan term which is over than 1 year.

The Company has provided loans to an associate for the year ended 31 December 2020 with an interest rate of 2.50% - 3.35% per annum (2019: interest rate is 3.35% per annum).

The Group has provided loans to another related party for the year ended 31 December 2020 with an interest rate of 2.17% - 3.71% per annum (2019: interest rate is between 4.01% - 4.67% per annum).

The movements of the long-term loans to related parties for the year are as follows:

|                                  | Consolidated<br>financial statements |               | financi       | Separate<br>al statements |
|----------------------------------|--------------------------------------|---------------|---------------|---------------------------|
|                                  | Unit: Million                        | Unit: Million | Unit: Million | Unit: Million             |
|                                  | US Dollar                            | Baht          | US Dollar     | Baht                      |
|                                  |                                      |               |               |                           |
| Balance as at 1 January 2020     | 86.06                                | 2,594.92      | 6,410.31      | 193,296.37                |
| Increase                         | -                                    | -             | 489.41        | 15,306.76                 |
| Decrease                         | (11.09)                              | (346.71)      | (105.12)      | (3,287.73)                |
| Foreign exchange differences     | (0.02)                               | (0.77)        | 1.37          | 42.99                     |
| Currency translation differences | -                                    | 3.69          | -             | (1,227.26)                |
| Balance as at 31 December 2020   | 74.95                                | 2,251.13      | 6,795.97      | 204,131.13                |

#### Loans to related parties

Loans to related parties measured at amotised cost are considered to have low credit risk, and the expected credit loss in the following 12 months and lifetime expected credit losses of the loans from increasing in credit risk is insignificant.



### e) Director and executive management fees

Director and executive management fees for the year ended 31 December are as follows:

|  |            | Consolidated financial statements |        |              |  |
|--|------------|-----------------------------------|--------|--------------|--|
|  | Unit: Mill | ion US Dollar                     | Unit   | Million Baht |  |
|  | 2020       | 2019                              | 2020   | 2019         |  |
| Short-term benefits<br>Post-employment and | 6.85       | 7.65                              | 214.71 | 239.26       |  |
| other long-term benefits                   | 0.47       | 0.55                              | 14.61  | 16.94        |  |
| -  | 7.32       | 8.20                              | 229.32 | 256.20       |  |

|  | Separate financial statements |                                       |        |        |
|--|-------------------------------|---------------------------------------|--------|--------|
|  | Unit: Mill                    | Unit: Million US Dollar Unit: Million |        |        |
|  | 2020                          | 2019                                  | 2020   | 2019   |
| Short-term benefits<br>Post-employment and | 6.83                          | 7.64                                  | 214.10 | 238.95 |
| other long-term benefits                   | 0.47                          | 0.55                                  | 14.61  | 16.94  |
| -  | 7.30                          | 8.19                                  | 228.71 | 255.89 |

### 18 Investments in subsidiaries, associates, joint ventures and joint operations

The amounts of investments recognised in the statement of financial position are as follows:

|                               | Consolidated financial statements |                  |                      |                 |
|-------------------------------|-----------------------------------|------------------|----------------------|-----------------|
|                               | Unit: Mil                         | lion US Dollar   | Uni                  | t: Million Baht |
|                               | 31 December 31 December           |                  | 31 December          | 31 December     |
|                               | 2020                              | 2019             | 2020                 | 2019            |
|                               |                                   |                  |                      |                 |
| Investments in associates     | 216.87                            | 227.63           | 6,514.00             | 6,863.84        |
| Investments in joint ventures | 233.34                            | 225.37           | 7,008.97             | 6,795.81        |
| Total                         | 450.21                            | 453.00           | 13,522.97            | 13,659.65       |
| Investments in joint ventures | 216.87<br>233.34                  | 227.63<br>225.37 | 6,514.00<br>7,008.97 | 6,863<br>6,795  |

|                             | Separate financial statements |                |             |                 |
|-----------------------------|-------------------------------|----------------|-------------|-----------------|
|                             | Unit: Mil                     | lion US Dollar | Uni         | t: Million Baht |
|                             | 31 December 31 December       |                | 31 December | 31 December     |
|                             | 2020                          | 2019           | 2020        | 2019            |
|                             |                               |                |             |                 |
| Investments in subsidiaries | 1,082.37                      | 924.40         | 32,511.19   | 27,874.46       |
| Investments in associates   | 25.58                         | 25.58          | 768.27      | 771.26          |
| Total                       | 1,107.95                      | 949.98         | 33,279.46   | 28,645.72       |
|                             |                               |                |             |                 |



#### 18.1 Investments in subsidiaries

Changes of investments in subsidiaries are as follows:

|                                  |          |                   | Separate finance | cial statements |
|----------------------------------|----------|-------------------|------------------|-----------------|
|                                  | Unit: N  | Iillion US Dollar | Uni              | t: Million Baht |
| For the year ended 31 December   | 2020     | 2019              | 2020             | 2019            |
|                                  |          |                   |                  |                 |
| Opening book value               | 924.40   | 795.71            | 27,874.46        | 25,820.71       |
| Increase in investments          | 157.97   | 128.69            | 4,940.49         | 3,993.94        |
| Currency translation differences | -        | -                 | (303.76)         | (1,940.19)      |
| Closing book value               | 1,082.37 | 924.40            | 32,511.19        | 27,874.46       |

On 12 February 2020, PTTEP Energy Holding (Thailand) Company Limited (PTTEP EH), a subsidiary of the Company, increased its authorised share capital amounting to Baht 726.80 million by issuing 7.27 million new ordinary shares at a par value of Baht 100 each.

On 24 April 2020, PTTEP EH increased its authorised share capital amounting to Baht 3,294 million by issuing 32.94 million new ordinary shares at a par value of Baht 100 each.

On 2 July 2020, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Company, increased its authorised share capital of Hong Kong Dollar (HK Dollar) 511.31 million by increasing its par value to be HK Dollar 0.16 million per share.

On 29 October 2020, PTTEP EH increased its authorised share capital amounting to Baht 284 million by issuing 2.84 million new ordinary shares at a par value of Baht 100 each.

On 4 December 2020, PTTEP EH increased its authorised share capital amounting to Baht 208.71 million by issuing 2.09 million new ordinary shares at a par value of Baht 100 each.



Details of investments in subsidiaries of the Company are as follows:

|  |                |   | Darticinating interest (%)   | interect (%)        | Separat                 | Separate financial statements (Cost method)  | ements (Cost m      | ethod)              |
|--|----------------|---|------------------------------|---------------------|-------------------------|--|---------------------|---------------------|
| List of subsidiaries                               | Country of     | Type of husiness                            | (including indirect holding) | rect holding)       | Unit: Million US Dollar | US Dollar  | Unit: Million Baht  | on Baht             |
|  | incorporation  |   | 31 December<br>2020          | 31 December<br>2019 | 31 December<br>2020     | 31 December 31 December 31 December 31 December 31 December<br>2020 2019 2020 2019 2020 2019 2020 2019 | 31 December<br>2020 | 31 December<br>2019 |
| PTTEP International Limited (PTTEPI)               | Thailand       | Petroleum                                   | 100                          | 100                 | 516.38                  | 516.38   | 15,510.65           | 15,571.04           |
| PTTEP Services Limited (PTTEP Services)            | Thailand       | Human resource support                      | 100                          | 100                 | 0.08                    | 0.08   | 2.32                | 2.33                |
| PTTEP Siam Limited (PTTEPS)                        | Thailand       | Petroleum                                   | 100                          | 100                 | 99.79                   | <u>99.79</u>   | 2,997.43            | 3,009.10            |
| PTTEP Offshore Investment Company Limited (PTTEPO) | Cayman Islands | Petroleum                                   | 100                          | 100                 | 0.01                    | 0.01   | 0.15                | 0.15                |
| PTTEP HK Holding Limited (PTTEP HK)                | Hong Kong      | Petroleum                                   | 100                          | 100                 | 52.39                   | 35.89  | 1,573.70            | 1,082.28            |
| PTTEP Treasury Center Company Limited (PTTEP TC)   | Thailand       | Treasury center for<br>the Group's business | 100                          | 100                 | 0.07                    | 0.07   | 2.22                | 2.23                |
| PTTEP Energy Holding (Thailand) Company Limited    | Thailand       | Petroleum                                   | 100                          | 100                 | 413.65                  | 272.18   | 12,424.72           | 8,207.33            |
| (РТТЕР ЕН)   |                |   |                              |                     |                         |  |                     |                     |

| List of subsidiaries   | Country of                   | Type of                         |                     | ı interest (%)<br>lirect holding) |
|--|------------------------------|---------------------------------|---------------------|-----------------------------------|
|  | incorporation                | business                        | 31 December<br>2020 | 31 December<br>2019               |
| PTTEP Business Center Company Limited (PTTEP BC)                 | Thailand                     | Petroleum                       | 100                 | 100                               |
| PTTEP Energy Development Company Limited (PTTEP ED)              | Thailand                     | Petroleum                       | 100                 | 100                               |
| EP-Tech Ventures Holding Company Limited (EP-Tech)               | Thailand                     | Petroleum related<br>Technology | 100                 | 100                               |
| AI and Robotics Ventures Company Limited (ARV)                   | Thailand                     | Technology                      | 100                 | 100                               |
| PTTEP Southwest Vietnam Company Limited (PTTEP SV)               | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Kim Long Vietnam Company Limited (PTTEP KV)                | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Hoang-Long Company Limited (PTTEP HL)                      | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Hoan-Vu Company Limited (PTTEP HV)                         | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Algeria Company Limited (PTTEP AG)                         | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Holding Company Limited (PTTEPH)                           | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Indonesia Company Limited (PTTEP ID)                       | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Africa Investment Limited (PTTEP AI)                       | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Australia Pty Ltd (PTTEP AU)                               | Commonwealth<br>of Australia | Petroleum                       | 100                 | 100                               |
| PTTEP Australia Offshore Pty Ltd (PTTEP AO)                      | Commonwealth of Australia    | Petroleum                       | 100                 | 100                               |
| PTTEP South Asia Limited (PTTEP SA)                              | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Semai II Limited (PTTEP SM) <sup>1</sup>                   | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Australia Perth Pty Ltd (PTTEP AP)                         | Commonwealth of Australia    | Petroleum                       | 100                 | 100                               |
| PTTEP Australia Browse Basin Pty Ltd (PTTEP AB)                  | Commonwealth of Australia    | Petroleum                       | 100                 | 100                               |
| PTTEP Australia Timor Sea Pty Ltd (PTTEP AT)                     | Commonwealth of Australia    | Petroleum                       | 100                 | 100                               |
| PTTEP Australasia (Operations) Pty Ltd (PTTEP AAO)               | Commonwealth<br>of Australia | Petroleum                       | 100                 | 100                               |
| PTTEP Australasia (Ashmore Cartier) Pty Ltd<br>(PTTEP AAA)       | Commonwealth<br>of Australia | Petroleum                       | 100                 | 100                               |
| PTTEP Australasia (Staff) Pty Ltd (PTTEP AAS)                    | Commonwealth<br>of Australia | Petroleum                       | 100                 | 100                               |
| PTTEP International Holding Company Limited<br>(PTTEP IH)        | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| PTTEP Southwest Vietnam Pipeline Company Limited<br>(PTTEP SVPC) | Cayman Islands               | Gas pipeline<br>transportation  | 100                 | 100                               |
| PTTEP FLNG Holding Company Limited (PTTEP FH) <sup>2</sup>       | Hong Kong                    | Petroleum                       | 100                 | 100                               |
| PTTEP Netherland Holding Limited (PTTEP NL)                      | Cayman Islands               | Petroleum                       | 100                 | 100                               |
| JV Marine Limited (JV Marine)                                    | Cayman Islands               | Petroleum                       | 100                 | 100                               |

## Investments in subsidiaries for the consolidated financial statements are as follows:

-

| List of subsidiaries  | Country of  | Type of  |                     | ı interest (%)<br>lirect holding) |
|---|---|--|---------------------|-----------------------------------|
|   | incorporation   | business   | 31 December<br>2020 | 31 December<br>2019               |
| PTTEP South Mandar Limited (PTTEP SMD)  | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP South Sageri Limited (PTTEP SS)   | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP Sadang Limited (PTTEP SD)   | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP Malunda Limted (PTTEP ML)   | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP Netherlands Coöperatie U.A. (PTTEP NC)  | Netherlands   | Petroleum  | 100                 | 100                               |
| PTTEP Canada Limited (PTTEP CA)   | Canada  | Petroleum  | 100                 | 100                               |
| PTTEP Canada International Finance Limited<br>(PTTEP CIF)                                 | Canada  | Investment<br>funding for<br>the Group's<br>business | 100                 | 100                               |
| Cove Energy Limited (Cove)  | United Kingdom<br>of Great Britain<br>and Northern<br>Ireland | Petroleum  | 100                 | 100                               |
| Cove Energy Mozambique Rovuma Onshore Limited<br>(CEMROL) <sup>3</sup>                    | Republic of<br>Cyprus   | Petroleum  | 100                 | 100                               |
| Cove Energy East Africa Limited (CEEAL)   | Republic of<br>Cyprus   | Petroleum  | 100                 | 100                               |
| PTTEP Mozambique Area 1 Limited (PTTEP MZA1)  | Republic of<br>Cyprus   | Petroleum  | 100                 | 100                               |
| Cove Energy Kenya Limited (CEKL) <sup>4</sup>   | Republic of<br>Kenya  | Petroleum  | -                   | 100                               |
| PTTEP Netherlands Holding Coöperatie U.A. (PTTEP NH)                                      | Netherlands   | Petroleum  | 100                 | 100                               |
| PTTEP Brazil Investment B.V. (PTTEP BI)   | Netherlands   | Petroleum  | 100                 | 100                               |
| PTTEP Brazil Investments in Oil and Gas Exploration<br>and Production Limitada (PTTEP BL) | Federative<br>Republic of Brazil                              | Petroleum  | 100                 | 100                               |
| Sinphuhorm Holdings Limited (SHL)   | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP SP Limited (PTTEP SP)   | United Kingdom<br>of Great Britain<br>and Northern<br>Ireland | Petroleum  | 100                 | 100                               |
| PTTEP G7 Limited (PTTEP G7)   | Thailand  | Petroleum  | 100                 | 100                               |
| PTTEP HK Offshore Limited (PTTEP HKO)   | Hong Kong   | Petroleum  | 100                 | 100                               |
| PTTEP MENA Limited (PTTEP MENA)   | Hong Kong   | Petroleum  | 100                 | 100                               |
| PTTEP Mexico E&P Limited, S. de R.L. de C.V.<br>(PTTEP MEP)                               | Mexico  | Petroleum  | 100                 | 100                               |
| PTTEP Sabah Oil Limited (PTTEP SBO)   | Bahamas   | Petroleum  | 100                 | 100                               |
| PTTEP Sarawak Oil Limited (PTTEP SKO)   | Bahamas   | Petroleum  | 100                 | 100                               |
| PTTEP Group Holding B.V. (PGH) <sup>5</sup>   | Netherlands   | Petroleum  | 100                 | 100                               |
| Partex Oil and Gas (Holdings) Corporation (POGHC) 6                                       | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP (Kazakhstan) Corporation (PKC) 7  | Cayman Islands  | Petroleum  | 100                 | 100                               |
| PTTEP (Angola) Corporation (PANG) <sup>8</sup>  | Cayman Islands  | Petroleum  | 100                 | 100                               |
| Partex (Brazil) Corporation (PBC)   | Cayman Islands  | Petroleum  | 100                 | 100                               |

| List of subsidiaries  | Country of            | Type of<br>business       |                     | ı interest (%)<br>lirect holding) |
|---|-----------------------|---------------------------|---------------------|-----------------------------------|
|   | incorporation         | business                  | 31 December<br>2020 | 31 December<br>2019               |
| PTTEP Gas Corporation (PGC) 9   | Republic of<br>Panama | Petroleum                 | 100                 | 100                               |
| Partex Services Corporation (PSC)   | Republic of<br>Panama | Human resource<br>support | 100                 | 100                               |
| Participations and Explorations Corporation (PEC)                               | Republic of<br>Panama | Petroleum                 | 100                 | 100                               |
| PTTEP Oman E&P Corporation (POC) <sup>10</sup>                                  | Republic of<br>Panama | Petroleum                 | 100                 | 100                               |
| Partex Services Portugal – Serviços para a Indústria<br>Petrolífera, S.A. (PSP) | Portugal              | Human resource<br>support | 100                 | 100                               |
| Partex Brasil Ltda. (PBL)   | Federative            | Petroleum                 | 100                 | 100                               |
|   | Republic of Brazil    |                           |                     |                                   |
| Partex Brasil Operações Petrolíferas Ltda (PBO)                                 | Federative            | Human resource            | 100                 | 100                               |
|   | Republic of Brazil    | support                   |                     |                                   |

<sup>1</sup> On 10 July 2020, the Company approved for the registration for dissolution of PTTEP Sermai II Limited (PTTEP SM), a subsidiary of the Group, and is in the process of dissolution.

<sup>2</sup> On 24 August 2017, the Company approved for the registration for the dissolution of PTTEP FLNG Holding Company Limited (PTTEP FH) and is in the process of dissolution.

<sup>3</sup> On 22 May 2017, the Company approved for the registration for the dissolution of Cove Energy Mozambique Rovuma Onshore Limited (CEMROL) and is in the process of dissolution.

<sup>4</sup> Following the Company's approval to register for the dissolution of Cove Energy Kenya Limited (CEKL), a subsidiary of the Group, on 22 May 2017, CEKL received the approval for company dissolution from the registrar on 27 May 2020.

<sup>5</sup> On 23 July 2020, Partex Holding B.V. (PHBV), a subsidiary of the Group, changed its name to PTTEP Group Holding B.V. (PGH).

<sup>6</sup> Partex Oil and Gas (Holdings) Corporation (POGHC), a subsidiary of the Group, was approved for the registration for dissolution from its shareholders since 26 October 2018 and is in process of dissolution.

<sup>7</sup> On 24 August 2020, Partex (Kazakhstan) Corporation (PKC), a subsidiary of the Group, changed its name to PTTEP (Kazakhstan) Corporation (PKC).

<sup>8</sup> On 26 August 2020, Partex (Angola) Corporation (PANG), a subsidiary of the Group, changed its name to PTTEP (Angola) Corporation (PANG).

<sup>9</sup> On 3 September 2020, Partex Gas Corporation (PGC), a subsidiary of the Group, changed its name to PTTEP Gas Corporation (PGC).

<sup>10</sup> On 3 September 2020, Partex (Oman) Corporation (POC), a subsidiary of the Group, changed its name to PTTEP Oman E&P Corporation (POC).



## 18.2 Investment in associates

Changes of investments in associates during the year are as follows:

|  |           | Consol         | idated financi | al statements   |
|--|-----------|----------------|----------------|-----------------|
|  | Unit: Mil | lion US Dollar | Uni            | t: Million Baht |
| For the year ended 31 December                       | 2020      | 2019           | 2020           | 2019            |
|  |           |                |                |                 |
| Opening book value                                   | 227.63    | 219.80         | 6,863.84       | 7,132.36        |
| Impact of adoption of TFRS 9                         | 22.71     | -              | 684.78         | -               |
| Share of net profit after income taxes               | 12.48     | 6.07           | 390.96         | 187.36          |
| Dividends received                                   | (2.87)    | (2.81)         | (89.68)        | (87.13)         |
| Share of other comprehensive income (expenses)       |           |                |                |                 |
| - Remeasurement of employee benefits                 | (0.14)    | (0.03)         | (4.66)         | (0.94)          |
| - Measurement of financial assets                    | (44.00)   | -              | (1,390.33)     | -               |
| <ul> <li>Currency difference arising from</li> </ul> |           |                |                |                 |
| translation of financial statements                  |           |                |                |                 |
| of associates  | 0.70      | 4.41           | 20.60          | 137.37          |
| Reclassification                                     | 0.30      | -              | 9.30           | -               |
| Currency translation differences                     | 0.06      | 0.19           | 29.19          | (505.18)        |
| Closing book value                                   | 216.87    | 227.63         | 6,514.00       | 6,863.84        |

|                                  |           | Se             | parate financi | al statements   |
|----------------------------------|-----------|----------------|----------------|-----------------|
|                                  | Unit: Mil | lion US Dollar | Uni            | t: Million Baht |
| For the year ended 31 December   | 2020      | 2019           | 2020           | 2019            |
|                                  |           |                |                |                 |
| Opening book value               | 25.58     | 25.58          | 771.26         | 829.99          |
| Currency translation differences | -         | -              | (2.99)         | (58.73)         |
| Closing book value               | 25.58     | 25.58          | 768.27         | 771.26          |



| stails of investment in associates of the Group and the Company are as follows: |               |  |
|---|---------------|--|
| f inve  | e as follows: |  |
| f inve  | Company a     |  |
| f inve  | Broup and the |  |
| A)  | f inve        |  |

|  |                              |   | Darticinating interest (%)                              | interect (%)                    | Consolidat              | ed financial sta    | Consolidated financial statements (Equity method) | method)                   |
|--|------------------------------|---|---|---------------------------------|-------------------------|---------------------|---|---------------------------|
| l int of accordants.                                   | Country of                   | Tuno of hucinoco  | (including indirect holding)                            | rect holding)                   | Unit: Million US Dollar | <b>US Dollar</b>    | Uni   | <b>Unit: Million Baht</b> |
|  | incorporation                | i ype ol busiliess                                      | 31 December<br>2020                                     | 31 December<br>2019             | 31 December 3           | 31 December<br>2019 | 31 December<br>2020                               | 31 December<br>2019       |
| Energy Complex Company Limited<br>(Energy Complex)     | Thailand                     | Property rental<br>services                             | 50  | 20                              | 62.52                   | 53.62               | 1,877.62  | 1,616.78                  |
| PTT Digital Solutions Company Limited<br>(PTT Digital) | Thailand                     | Information technology<br>and communication<br>services | 50  | 20                              | 16.40                   | 13.70               | 492.76  | 413.06                    |
| PTTEP AP Group's Associates <sup>3</sup>               | Commonwealth<br>of Australia | Air base services                                       | 50  | 50                              | 4.97                    | 4.97                | 149.32  | 149.90                    |
| PTT Global LNG Company Limited (PTT GL)                | Thailand                     | Petroleum   | 50  | 50                              | 129.28                  | 151.50              | 3,883.17  | 4,568.44                  |
| Leismer Aerodrome Limited (LAL)                        | Canada                       | Air transportation                                      | 32  | 32                              | 3.70                    | 3.84                | 111.13  | 115.66                    |
| MoZ LNG1 Holding Company Ltd. <sup>4</sup>             | United Arab<br>Emirates      | Petroleum   | 8.5   |                                 |                         |                     | •   |                           |
|  |                              |   |   |                                 | Consolida               | tod financial et    | Concolidated financial statements (Cost mothed)   | mothod                    |
| l ict of seconistic 1,2                                | Country of                   | Tyna of husines   | Participating interest (%) (including indirect holding) | interest (%) –<br>rect holding) | Unit: Million US Dollar | US Dollar           | Unit<br>Unit                                      | Unit: Million Baht        |
|  | incorporation                |   | 31 December<br>2020                                     | 31 December<br>2019             | 31 December 3<br>2020   | 31 December<br>2019 | 31 December<br>2020                               | 31 December<br>2019       |
| Energy Complex Company Limited<br>(Energy Complex)     | Thailand                     | Property rental<br>services                             | 50  | 50                              | 24.79                   | 24.79               | 744.60  | 747.50                    |
| PTT Digital Solutions Company Limited<br>(PTT Digital) | Thailand                     | Information technology<br>and communication<br>services | 50  | 20                              | 0.79                    | 0.79                | 23.67   | 23.76                     |

<sup>1</sup> All investments in associates have been assessed as immaterial to the Group. <sup>2</sup> The Group has no contingent liabilities with participating interest in investment in associates. <sup>3</sup> PTTEP AP's Group Associates are Mungalalu Truscott Airbase Pty Ltd and Troughton Island Pty Ltd. <sup>4</sup> During the year 2020, the Group reviewed classification of investment to conform to the current situation. It affected to the investment reclassified as an investment in associate accounted for using the equity method.

120

#### Individually immaterial associates

The Group's immaterial associates accounted for using equity method are as follows:

|   | Unit: M     | illion US Dollar  | Ur          | it: Million Baht |
|---|-------------|-------------------|-------------|------------------|
|   | 31 December | 31 December       | 31 December | 31 December      |
|   | 2020        | 2019              | 2020        | 2019             |
|   |             |                   |             |                  |
| Aggregate carrying amount of share of individually    |             |                   |             |                  |
| immaterial associates                                 | 216.87      | 227.63            | 6,514.00    | 6,863.84         |
|   |             |                   |             |                  |
|   | Unit: N     | Aillion US Dollar | Ur          | it: Million Baht |
| For the year ended 31 December                        | 2020        | 2019              | 2020        | 2019             |
| Aggregate amounts of the Group's share of associates: |             |                   |             |                  |
| Profit from continuing operations                     | 12.48       | 6.07              | 390.96      | 187.36           |
| Other comprehensive income                            | (43.44)     | 4.38              | (1,374.39)  | 136.43           |
| Total comprehensive income for the year               | (30.96)     | 10.45             | (983.43)    | 323.79           |

As at 31 December 2020, the Group has unrecognised share of loss in an associate amounting to US Dollar 0.16 million (Baht 4.68 million).

### 18.3 Investments in Joint Ventures

Changes of investments in Joint Ventures during the year are as follows:

|   |         | Con              | solidated finan | cial statements  |
|---|---------|------------------|-----------------|------------------|
|   | Unit: M | illion US Dollar | Un              | it: Million Baht |
| For the year ended 31 December                  | 2020    | 2019             | 2020            | 2019             |
|   |         |                  |                 |                  |
| Opening book value                              | 225.37  | 17.41            | 6,795.81        | 565.02           |
| Share of net profit after income taxes          | 29.16   | 6.28             | 916.27          | 193.05           |
| Dividends received                              | (23.94) | (11.91)          | (748.72)        | (369.58)         |
| Share of other comprehensive income             |         |                  |                 |                  |
| - Currency differences arising from translation |         |                  |                 |                  |
| of financial statements of joint ventures       | 0.01    | -                | 0.32            | -                |
| Business acquisition                            | -       | 82.96            | -               | 2,502.52         |
| Increase in investments                         | 3.13    | 130.63           | 98.15           | 4,054.04         |
| Decrease in investment                          | (0.39)  | -                | (12.30)         | -                |
| Currency translation differences                | -       | -                | (40.56)         | (149.24)         |
| Closing book value                              | 233.34  | 225.37           | 7,008.97        | 6,795.81         |

On 21 July 2020, AI and Robotics Ventures Company Limited (ARV), a subsidiary of the Group, co-established ATI Technologies Co., Ltd. (ATI) with a registered capital of Baht 20 million. The registered capital comprises 4 million ordinary shares at a par value of Baht 5 each. ARV holds 50% interest in ATI. Its registered shares were paid at 60%. The Group classifies the investment in ATI as an investment in joint venture.

On 27 October 2020, ARV co-established Zeaquest Co.,Ltd (Zeaquest) with a registered capital of Baht 5 million. The registered capital comprises 50,000 ordinary shares at a par value of Baht 100 each. ARV holds 50% interest in Zeaquest. Its registered shares were paid at 43.88%. The Group classifies the investment in Zeaquest as an investment in joint venture.



| are as follows: |
|-----------------|
| Group           |
| of the          |
| /entures        |
| ts in joint v   |
| .⊆              |
| f investments i |
| of              |
| Details         |

|   |                   |                     | Participating interest (%)   | interest (%)  | Consolid           | ated financial sta      | Consolidated financial statements (Equity method) | method)                   |
|---|-------------------|---------------------|------------------------------|---|--------------------|-------------------------|---|---------------------------|
| List of ioint ventures <sup>1, 2</sup>  | Country of        | Type of business    | (including indirect holding) | irect holding)  | Unit: Mi           | Unit: Million US Dollar | Un  | <b>Unit: Million Baht</b> |
|   | incorporation     |                     | 31 December                  | 31 December 31 December 31 December 31 December 31 December 31 December | <b>31 December</b> | <b>31 December</b>      | <b>31 December</b>                                | <b>31 December</b>        |
|   |                   |                     | 2020                         | 2019  | 2020               | 2019                    | 2020  | 2019                      |
| Erawan 2 FSO Bahamas Ltd. (Erawan 2 FSO | Bahamas           | FSO rental services | 13.11                        | 13.11   | 41.14              | 18.10                   | 1,235.76  | 545.78                    |
| APICO LLC (APICO)                       | United States of  | Petroleum           | 72.8215                      | 72.8215   | 128.59             | 127.38                  | 3,862.66  | 3,841.17                  |
|   | America           |                     |                              |   |                    |                         |   |                           |
| Oman LNG LLC (OLNG)                     | Sultanate of Oman | Petroleum           | 2                            | 7   | 63.42              | 79.89                   | 1,904.95  | 2,408.86                  |
| ATI Technologies Company Limited (ATI)  | Thailand          | Technology          | 50                           | ı   | 0.19               | ,                       | 5.60  | ,                         |
| Zeaquest Co., Ltd. (Zeaquest)           | Thailand          | Technology          | 50                           |   | •                  |                         | •   |                           |

<sup>1</sup> All investments in joint ventures have been assessed as immaterial to the Group.

<sup>2</sup> The Group has no contingent liabilities with participating interest in investment in joint ventures. <sup>3</sup> Erawan 2 FSO Bahamas hold 100% of shareholding interest in Asia Pacific Marine Services (EF) B.V.

## Individually immaterial joint ventures

The Group's immaterial joint ventures accounted for using equity method are as follows:

|   | Unit: Mil   | lion US Dollar | Uni         | t: Million Baht |
|---|-------------|----------------|-------------|-----------------|
| As at 31 December   | 31 December | 31 December    | 31 December | 31 December     |
|   | 2020        | 2019           | 2020        | 2019            |
| Aggregate carrying amount of share of                     |             |                |             |                 |
| individually immaterial joint ventures                    | 223.34      | 225.37         | 7,008.97    | 6,795.81        |
|   |             |                |             |                 |
|   | Unit: Mil   | lion US Dollar | Uni         | t: Million Baht |
| For the year ended 31 December                            | 2020        | 2019           | 2020        | 2019            |
| Aggregate amounts of the Group's share of joint ventures: |             |                |             |                 |
| Profit from continuing operations                         | 29.16       | 6.28           | 916.27      | 193.05          |
|   |             |                | 0.32        |                 |
| Other comprehensive income                                | 0.01        | -              | 0.32        | -               |

### 18.4 Investments in Joint Operations

Details of investments in joint operations of the Group are as follows:

| List of joint operations                               | Country of incorporation                                   | Type of                        | Participating<br>(including ind | irect holding)      |
|--|--|--------------------------------|---------------------------------|---------------------|
|  | country of moorportation                                   | business                       | 31 December<br>2020             | 31 December<br>2019 |
| Carigali – PTTEPI Operating Company Sdn<br>Bhd. (CPOC) | Malaysia   | Petroleum                      | 50                              | 50                  |
| Moattama Gas Transportation Company<br>(MGTC)          | Bermuda  | Gas pipeline<br>transportation | 25.5                            | 25.5                |
| Taninthayi Pipeline Company LLC (TPC)                  | Cayman Islands   | Gas pipeline<br>transportation | 19.3178                         | 19.3178             |
| Orange Energy Limited (Orange)                         | Thailand   | Petroleum                      | 53.9496                         | 53.9496             |
| B8/32 Partners Limited (B8/32 Partners)                | Thailand   | Petroleum                      | 25.0009                         | 25.0009             |
| Hoang-Long Joint Operating Company                     | Socialist Republic<br>of Vietnam                           | Petroleum                      | 28.5                            | 28.5                |
| Hoan-Vu Joint Operating Company                        | Socialist Republic<br>of Vietnam                           | Petroleum                      | 25                              | 25                  |
| Groupement Bir Seba (GBRS)                             | People's Democratic<br>Republic of Algeria                 | Petroleum                      | 35                              | 35                  |
| Andaman Transportation Limited (ATL)                   | Cayman Islands   | Gas pipeline<br>transportation | 80                              | 80                  |
| Natuna 2 B.V. (Natuna)                                 | Netherlands  | Petroleum                      | 50                              | 50                  |
| Petroleum Development Oman LLC (PDO)                   | Sultanate of Oman  | Petroleum                      | 2                               | 2                   |
| Abu Dhabi Gas Industries Limited (AGP)                 | United Arab Emirates                                       | Petroleum                      | 2                               | 2                   |
| Private Oil Holdings Oman Limited (POHOL)              | United Kingdom of Great<br>Britain and Northern<br>Ireland | Petroleum                      | 5                               | 5                   |

# Details of exploration and production projects operated by the Group are as follows:

|                                      |  |  |                     | Participating interest (%) |  |  |
|--------------------------------------|--|--|---------------------|----------------------------|--|--|
| Project                              | Country  | Operator   | 31 December<br>2020 | 31 December<br>2019        |  |  |
| PTT Exploration and Pro              | duction Public Comp                              | any Limited  |                     |                            |  |  |
| Bongkot                              | Thailand   | PTT Exploration and Production Public Company Limited      | 66.6667             | 66.6667                    |  |  |
| Arthit                               | Thailand   | PTT Exploration and Production Public Company Limited      | 80                  | 80                         |  |  |
| Contract 4 (B12/27)                  | Thailand   | Chevron Thailand Exploration and Production, Ltd.          | 45                  | 45                         |  |  |
| Sinphuhorm (E5 North)                | Thailand   | PTTEP SP Limited   | 20                  | 20                         |  |  |
| S1                                   | Thailand   | PTTEP Siam Limited   | 25                  | 25                         |  |  |
| Contrct 3 (B10, B11, B12<br>and B13) | Thailand   | Chevron Thailand Exploration and Production, Ltd.          | 5                   | 5                          |  |  |
| E5                                   | Thailand   | ExxonMobil Exploration and Production Khorat Inc.          | 20                  | 20                         |  |  |
| Algeria Hassi Bir Rekaiz             | People's<br>Democratic<br>Republic of<br>Algeria | PTT Exploration and Production Public Company Limited      | 24.5                | 24.5                       |  |  |
| PTTEP International Limi             | ited (PTTEPI)                                    |  |                     |                            |  |  |
| Yadana                               | Republic of the<br>Union of Myanmar              | Total E&P Myanmar  | 25.5                | 25.5                       |  |  |
| Yetagun                              | Republic of the<br>Union of Myanmar              | Petronas Carigali Myanmar (Hong Kong) Ltd.                 | 19.31784            | 19.31784                   |  |  |
| PTTEP 1                              | Thailand   | PTTEP International Limited                                | 100                 | 100                        |  |  |
| G4/43                                | Thailand   | Chevron Offshore (Thailand) Ltd.                           | 21.375              | 21.375                     |  |  |
| G9/43                                | Thailand –<br>Kingdom of<br>Cambodia             | PTTEP International Limited                                | 100                 | 100                        |  |  |
| L22/43                               | Thailand   | PTTEP International Limited                                | 100                 | 100                        |  |  |
| L53/43 & L54/43                      | Thailand   | PTTEP International Limited                                | 100                 | 100                        |  |  |
| G4/48                                | Thailand   | Chevron Pattani, Ltd.                                      | 5                   | 5                          |  |  |
| Bongkot (G12/48)                     | Thailand   | PTTEP International Limited                                | 66.6667             | 66.6667                    |  |  |
| Contract 4 (G7/50)                   | Thailand   | Chevron Pattani, Ltd.                                      | 60                  | 60                         |  |  |
| Arthit (G8/50)<br>Zawtika            | Thailand<br>Bopublic of the                      | PTTEP International Limited<br>PTTEP International Limited | 80                  | 80                         |  |  |
| Zawiika                              | Republic of the<br>Union of Myanmar              | FITEP International Limited                                | 80                  | 80                         |  |  |
| Myanmar M3                           | Republic of the<br>Union of Myanmar              | PTTEP International Limited                                | 80                  | 80                         |  |  |
| Myanmar M11                          | Republic of the<br>Union of Myanmar              | PTTEP International Limited                                | 100                 | 100                        |  |  |
| MTJDA                                | Thailand -<br>Malaysia                           | Carigali-PTTEPI Operating Company Sdn Bhd.                 | 50                  | 50                         |  |  |
| PTTEP Offshore Investm               | ent Company Limited                              | d (PTTEPO)   |                     |                            |  |  |
| B8/32 & 9A <sup>1</sup>              | Thailand   | Chevron Offshore (Thailand) Ltd.                           | 25.001              | 25.001                     |  |  |
| PTTEP Southwest Vietna               | m Company Limited                                | (PTTEP SV)   |                     |                            |  |  |
| Vietnam 52/97                        | Socialist Republic<br>of Vietnam                 | Vietnam Oil and Gas Group                                  | 7                   | 7                          |  |  |
| PTTEP Kim Long Vietnam               | n Company Limited                                | (PTTEP KV)   |                     |                            |  |  |
| Vietnam B & 48/95                    | Socialist Republic<br>of Vietnam                 | Vietnam Oil and Gas Group                                  | 8.5                 | 8.5                        |  |  |

|                           |  |                                    | Participating       | interest (%)        |
|---------------------------|--|------------------------------------|---------------------|---------------------|
| Project                   | Country  | Operator                           | 31 December<br>2020 | 31 December<br>2019 |
| PTTEP Hoang-Long Co       | omnany Limited (PT)                              |                                    |                     |                     |
| Vietnam 16-1              | Socialist<br>Republic of<br>Vietnam              | Hoang-Long Joint Operating Company | 28.5                | 28.5                |
| PTTEP Hoan-Vu Comp        | any Limited (PTTEP                               | HV)                                |                     |                     |
| Vietnam 9-2               | Socialist<br>Republic of<br>Vietnam              | Hoan-Vu Joint Operating Company    | 25                  | 25                  |
| PTTEP Algeria Compa       | ny Limited (PTTEP A                              | G)                                 |                     |                     |
| Algeria 433A & 416B       | People's<br>Democratic<br>Republic of<br>Algeria | Groupement Bir Seba                | 35                  | 35                  |
| PTTEP Siam Limited (F     | PTTEPS)  |                                    |                     |                     |
| Sinphuhorm (EU-1)         | Thailand   | PTTEP SP Limited                   | 20                  | 20                  |
| B6/27                     | Thailand   | PTTEP Siam Limited                 | 100                 | 100                 |
| S1                        | Thailand   | PTTEP Siam Limited                 | 75                  | 75                  |
| PTTEP South Asia Lim      | ited (PTTEP SA)                                  |                                    |                     |                     |
| Myanmar MD-7 <sup>2</sup> | Republic of the<br>Union of<br>Myanmar           | PTTEP South Asia Limited           | 50                  | 50                  |
| Myanmar MOGE <sup>3</sup> | Republic of the<br>Union of<br>Myanmar           | PTTEP South Asia Limited           | 77.5                | 77.5                |
| PTTEP Canada Limited      | I (PTTEP CA)                                     |                                    |                     |                     |
| Mariana Oil Sands         | Canada   | PTTEP Canada Limited               | 100                 | 100                 |
| PTTEP Australia Perth     | Pty Ltd (PTTEP AP)                               |                                    |                     |                     |

PTTEP Australasia\* Commonwealth of Australia

\* Details of operators and participating interests in PTTEP Australasia Project are as follows:

|  |   | Participati | ng interest (%) |
|--|---|-------------|-----------------|
| Block  | Operator                                    | 31 December | 31 December     |
|  |   | 2020        | 2019            |
| AC/RL7, AC/RL12 and AC/P54                             | PTTEP Australasia (Ashmore Cartier) Pty Ltd | 100         | 100             |
| AC/L3  | PTTEP Australasia (Ashmore Cartier) Pty Ltd | 100         | 100             |
| AC/RL10  | PTTEP Australia Timor Sea Pty Ltd           | 90          | 90              |
| AC/RL4 (Tenacious)                                     | PTTEP Australia Timor Sea Pty Ltd           | 100         | 100             |
| AC/RL6 (Audacious), AC/RL6<br>(exclusive of Audacious) | PTTEP Australia Timor Sea Pty Ltd           | 100         | 100             |
| AC/RL4 (exclusive of Tenacious)                        | PTTEP Australia Timor Sea Pty Ltd           | 100         | 100             |
| AC/RL5 <sup>4</sup>                                    | PTTEP Australia Timor Sea Pty Ltd           | -           | 100             |

|  | Project Country Operator            |   |                     |                     |
|--|-------------------------------------|---|---------------------|---------------------|
| Project  | Country                             | Operator                                      | 31 December<br>2020 | 31 December<br>2019 |
|  |                                     |   |                     |                     |
| PTTEP Mozambique Area                          | •                                   |   | 0.5                 | 0.5                 |
| Mozambique Area 1                              | Republic of<br>Mozambique           | Total E&P Mozambique Area 1 Limitada          | 8.5                 | 8.5                 |
| Natuna 2 B.V. (Natuna)                         |                                     |   |                     |                     |
| Natuna Sea A                                   | Republic of<br>Indonesia            | Premier Oil Natuna Sea BV                     | 11.5                | 11.5                |
| PTTEP Brazil Investments                       | s in Oil and Gas E                  | xploration and Production Limitada (PTTEP BL) |                     |                     |
| Barreirinhas AP1                               | Federative                          | Shell Brasil Petroleo Ltda.                   | 25                  | 25                  |
|  | Republic of<br>Brazil               |   |                     |                     |
| Brazil BM-ES-23                                | Federative<br>Republic of<br>Brazil | Petróleo Brasileiro S.A. (Petrobas)           | 20                  | 20                  |
| DTTED SD   imited (DTTE)                       |                                     |   |                     |                     |
| PTTEP SP Limited (PTTE)<br>Contract 4 (B12/27) | Thailand                            | Chevron Thailand Exploration and Production,  | 15                  | 15                  |
|  | Thailanu                            | Ltd.  | 15                  | 15                  |
| Sinphuhorm (E5 North<br>and EU-1)              | Thailand                            | PTTEP SP Limited                              | 35                  | 35                  |
| PTTEP HK Offshore Limit                        | ed (PTTEP HKO)                      |   |                     |                     |
| Sarawak SK 410B                                | Malaysia                            | PTTEP HK Offshore Limited                     | 42.5                | 42.5                |
| Sarawak SK 417                                 | Malaysia                            | PTTEP HK Offshore Limited                     | 80                  | 80                  |
| Sarawak SK 438                                 | Malaysia                            | PTTEP HK Offshore Limited                     | 80                  | 80                  |
| Peninsular PM 407                              | Malaysia                            | PTTEP HK Offshore Limited                     | 55                  | 55                  |
| Peninsular PM 415                              | Malaysia                            | PTTEP HK Offshore Limited                     | 70                  | 70                  |
| PTTEP Mexico E&P Limit                         | ed, S. de R.L. de (                 | C.V. (PTTEP MEP)                              |                     |                     |
| Mexico block 12 (2.4)                          | Mexico                              | PC Carigali Mexico Operations, S.A. de C.V.   | 20                  | 20                  |
| Mexico block 29 (2.4)                          | Mexico                              | Repsol Exploración México, S.A. de C.V.       | 16.67               | 16.67               |
| PTTEP Energy Developm                          | ent Company Lim                     | ited (PTTEP ED)                               |                     |                     |
| G1/61  | Thailand                            | PTTEP Energy Development Company Limited      | 60                  | 60                  |
| G2/61  | Thailand                            | PTTEP Energy Development Company Limited      | 100                 | 100                 |
| PTTEP MENA Limited (PT                         | TEP MENA)                           |   |                     |                     |
| Abu Dhabi Offshore 1                           | United Arab<br>Emirates             | Eni Abu Dhabi B.V.                            | 30                  | 30                  |
| Abu Dhabi Offshore 2                           | United Arab<br>Emirates             | Eni Abu Dhabi B.V.                            | 30                  | 30                  |
| Oman Onshore Block 12 <sup>5</sup>             | Sultanate of<br>Oman                | Total E&P Oman Block 12 B.V.                  | 20                  | -                   |
| Abu Dhabi Offshore 36                          | United Arab                         | Eni Abu Dhabi B.V.                            | 30                  | -                   |

# PTTEP Sabah Oil Limited (PTTEP SBO)

Malaysia Block K \*\* Malaysia Malaysia Block H \*\*\* Malaysia \*\* Details of operators and participating interests in Malaysia Block K project are as follows:

|       |       |                                 | Participating | interest (%) |
|-------|-------|---------------------------------|---------------|--------------|
|       | Block | Operator                        | 31 December   | 31 December  |
|       |       |                                 | 2020          | 2019         |
| Kikeh |       | PTTEP Sabah Oil Limited         | 56            | 56           |
| SNP   |       | PTTEP Sabah Oil Limited         | 22.4          | 22.4         |
| GK    |       | Sabah Shell Petroleum Co., Ltd. | 6.366         | 6.366        |

\*\*\* Details of operators and participating interests in Malaysia Block H project are as follows:

|                                   |                |                           | Participating | interest (%) |
|-----------------------------------|----------------|---------------------------|---------------|--------------|
| Block                             |                | Operator                  | 31 December   | 31 December  |
|                                   |                |                           | 2020          | 2019         |
| Rotan                             |                | PTTEP Sabah Oil Limited   | 56            | 56           |
| Others                            |                | PTTEP Sabah Oil Limited   | 42            | 42           |
|                                   |                |                           | Participating | interest (%) |
| Project                           | Country        | Operator                  | 31 December   | 31 December  |
|                                   |                |                           | 2020          | 2019         |
| PTTEP Sarawak Oil Lim             | ited (PTTEP SK | 0)                        |               |              |
| Sarawak SK 314A                   | Malaysia       | PTTEP Sarawak Oil Limited | 59.5          | 59.5         |
| Sarawak SK 405B                   | Malaysia       | PTTEP Sarawak Oil Limited | 59.5          | 59.5         |
| Sarawak SK 309 and<br>SK 311 **** | Malaysia       |                           |               |              |

\*\*\*\* Details of operators and participating interests in Sarawak SK 309 and Sarawak SK 311 projects are as follows:

|                       |                      |                                    | Participating       | interest (%)        |
|-----------------------|----------------------|------------------------------------|---------------------|---------------------|
| Block                 | (                    | Operator                           | 31 December         | 31 December         |
|                       |                      |                                    | 2020                | 2019                |
| East Patricia         |                      | PTTEP Sarawak Oil Limited          | 42                  | 42                  |
| Others                |                      | PTTEP Sarawak Oil Limited          | 59.5                | 59.5                |
|                       |                      |                                    | Participating       | interest (%)        |
| Project               | Country              | Operator                           | 31 December<br>2020 | 31 December<br>2019 |
| PTTEP Holding Group E | 3.V. (PGH)           |                                    |                     |                     |
| Block 17/06           | Angola               | TOTAL E&P Angola Block17.06 (TEPA) | 2.5                 | 2.5                 |
| Potiguar              | Federative           | Partex Brasil Ltda                 | 50                  | 50                  |
| Ū                     | Republic of Brazil   |                                    |                     |                     |
| Dunga                 | Kazakhstan           | Total E&P Dunga GmbH               | 20                  | 20                  |
| PDO (Block 6)         | Sultanate of<br>Oman | Petroleum Development Oman LLC     | 2                   | 2                   |
| Mukhaizna (Block 53)  | Sultanate of<br>Oman | Occidental Mukhaizna,LLC           | 1                   | 1                   |

<sup>1</sup> PTTEP Offshore Investment Company Limited (PTTEPO) has shareholding interest in Orange Energy Limited and B8/32 Partners Limited, which hold the project's concession.

<sup>2</sup>On 14 October 2020, PTTEP South Asia Limited (PTTEPSA), a subsidiary of the Group, submitted a request to terminate and return 50% of the exploration block of Myanmar MD-7 Project after fulfilling the obligations under the Product Sharing Contract earlier than termination exploration period identified per the contract (14 November 2021). The termination will be effective upon receiving official approval from the Government of the Republic of the Union of Myanmar.

<sup>3</sup> On 9 July 2020, PTTEP SA submitted a request to terminate and return 77.5% of the exploration block of Myanmar MOGE 3 Project after fulfilling the obligations under the Product Sharing Contract. The termination will be effective upon receiving official approval from the Government of the Republic of the Union of Myanmar.

<sup>4</sup> On 13 March 2020, PTTEP Australia Timor Sea Pty Ltd (PTTEP AT), a subsidiary of the Group, requested to terminate and return 100% of the exploration blocks of AC/RL5 Project to the Government of the Commonwealth of the Australia after fulfillment of the requirements of the concession. The termination is effective from 15 June 2020.

<sup>5</sup> On 19 February 2020, PTTEP MENA Limited (PTTEP MENA), a subsidiary of the Group, and co-venturer signed Exploration and Production Sharing Agreement (EPSA) with Oman's Ministry of Oil and Gas (MOG) for exploration and production rights of Block12, located onshore central part of the Sultanate of Oman. PTTEP MENA holds 20% participation interests in this Block. The Sultan of Oman approved the EPSA on 25 March 2020.

<sup>6</sup> On 21 December 2020, PTTEP MENA and co-venturer signed Exploration Concession Agreement for exploration and production rights of Block Offshore 3, located offshore north-west of Abu Dhabi, United Arab Emirates. PTTEP MENA holds 30% participation interests in this Block during exploration phase. The exploration rights will be effective from 1 January 2021.

# 19 Property, plant and equipment

|   |  |          | Cons    | olidated financia               | al statements |
|---|--|----------|---------|---------------------------------|---------------|
|   |  |          |         | Unit: Mill                      | ion US Dollar |
|   | Exploration<br>and<br>production<br>assets | Pipeline | Others  | Assets<br>under<br>construction | Total         |
| As at 1 January 2019                            |  |          |         |                                 |               |
| Cost  | 24,153.51                                  | 891.11   | 130.48  | 1,686.96                        | 26,862.06     |
| Less Accumulated depreciation                   | (17,990.69)                                | (248.43) | (84.66) | -                               | (18,323.78)   |
| Less Accumulated impairment                     | (329.88)                                   | (5.25)   | -       | -                               | (335.13)      |
| Net book value                                  | 5,832.94                                   | 637.43   | 45.82   | 1,686.96                        | 8,203.15      |
| For the year ended 31 December 2019             |  |          |         |                                 |               |
| Opening net book value                          | 5,832.94                                   | 637.43   | 45.82   | 1,686.96                        | 8,203.15      |
| Business acquisition                            | 2,081.24                                   | -        | 15.22   | -                               | 2,096.46      |
| Additions                                       | 822.44                                     | 2.44     | 4.73    | 579.85                          | 1,409.46      |
| Disposals and write-off, net                    | (23.34)                                    |          | (0.06)  | (11.52)                         | (34.92)       |
| Reclassification                                | 1,772.73                                   | -        | 1.01    | (777.62)                        | 996.12        |
| Depreciation charged                            | (1,970.42)                                 | (29.81)  | (8.17)  | -                               | (2,008.40)    |
| Currency translation differences                | 0.01                                       | -        | 0.10    | -                               | 0.11          |
| Closing net book value                          | 8,515.60                                   | 610.06   | 58.65   | 1,477.67                        | 10,661.98     |
| As at 31 December 2019                          |  |          |         |                                 |               |
| Cost  | 28,782.50                                  | 893.55   | 145.25  | 1,477.67                        | 31,298.97     |
| Less Accumulated depreciation                   | (19,937.02)                                | (278.24) | (86.60) | -                               | (20,301.86)   |
| Less Accumulated impairment                     | (329.88)                                   | (5.25)   | -       | -                               | (335.13)      |
| Net book value                                  | 8,515.60                                   | 610.06   | 58.65   | 1,477.67                        | 10,661.98     |
| Adjustment from adoption of TFRS 16<br>(Note 6) |  |          |         |                                 |               |
| Cost  | (128.11)                                   | -        | (1.38)  | -                               | (129.49)      |
| Less Accumulated depreciation                   | 6.65                                       | -        | 0.41    | -                               | 7.06          |
| Net book value                                  | (121.46)                                   | -        | (0.97)  | -                               | (122.43)      |



|                                     |  |          | Cons    | olidated financia               | al statements |
|-------------------------------------|--|----------|---------|---------------------------------|---------------|
|                                     |  |          |         | Unit: Mill                      | ion US Dollar |
|                                     | Exploration<br>and<br>production<br>assets | Pipeline | Others  | Assets<br>under<br>construction | Total         |
| As at 1 January 2020                |  |          |         |                                 |               |
| Cost                                | 28,654.39                                  | 893.55   | 143.87  | 1,477.67                        | 31,169.48     |
| Less Accumulated depreciation       | (19,930.37)                                | (278.24) | (86.19) | -                               | (20,294.80)   |
| Less Accumulated impairment         | (329.88)                                   | (5.25)   | -       | -                               | (335.13)      |
| Net book value                      | 8,394.14                                   | 610.06   | 57.68   | 1,477.67                        | 10,539.55     |
|                                     |  |          |         |                                 |               |
| For the year ended 31 December 2020 |  |          |         |                                 |               |
| Opening net book value              | 8,394.14                                   | 610.06   | 57.68   | 1,477.67                        | 10,539.55     |
| Additions                           | 541.07                                     | 2.12     | 12.07   | 850.98                          | 1,406.24      |
| Disposals and write-off, net        | (64.34)                                    | -        | (2.88)  | (31.28)                         | (98.50)       |
| Reclassification                    | 293.69                                     | -        | 0.30    | (277.12)                        | 16.87         |
| Depreciation charged                | (1,934.55)                                 | (29.85)  | (14.29) | -                               | (1,978.69)    |
| Allowance for impairment of assets  | (47.52)                                    | (0.41)   | -       | -                               | (47.93)       |
| Closing net book value              | 7,182.49                                   | 581.92   | 52.88   | 2,020.25                        | 9,837.54      |
|                                     |  |          |         |                                 |               |
| As at 31 December 2020              |  |          |         |                                 |               |
| Cost                                | 28,967.86                                  | 895.67   | 152.63  | 2,020.25                        | 32,036.41     |
| Less Accumulated depreciation       | (21,423.30)                                | (308.09) | (99.75) | -                               | (21,831.14)   |
| Less Accumulated impairment         | (362.07)                                   | (5.66)   | -       | -                               | (367.73)      |
| Net book value                      | 7,182.49                                   | 581.92   | 52.88   | 2,020.25                        | 9,837.54      |



|   |  |            | Cono       | olidated financi                | al atatamanta  |
|---|--|------------|------------|---------------------------------|----------------|
|   |  |            | Cons       |                                 | : Million Baht |
|   | Exploration<br>and<br>production<br>assets | Pipeline   | Others     | Assets<br>under<br>construction | Total          |
| As at 1 January 2019                            | 433613                                     | Tipenne    | Others     | construction                    | Total          |
| Cost  | 783,777.47                                 | 28,916.58  | 4,233.87   | 54,741.44                       | 871,669.36     |
| Less Accumulated depreciation                   | (583,795.16)                               | (8,061.57) | (2,746.81) | -                               | (594,603.54)   |
| Less Accumulated impairment                     | (10,704.52)                                | (170.51)   | -          | -                               | (10,875.03)    |
| Net book value                                  | 189,277.79                                 | 20,684.50  | 1,487.06   | 54,741.44                       | 266,190.79     |
|   |  |            | .,         | <u> </u>                        |                |
| For the year ended 31 December 2019             |  |            |            |                                 |                |
| Opening net book value                          | 189,277.79                                 | 20,684.50  | 1,487.06   | 54,741.44                       | 266,190.79     |
| Business acquisition                            | 63,886.42                                  | -          | 459.09     | -                               | 64,345.51      |
| Additions                                       | 25,524.46                                  | 75.62      | 146.62     | 17,995.71                       | 43,742.41      |
| Disposals and write-off, net                    | (723.78)                                   | -          | (1.66)     | (357.63)                        | (1,083.07)     |
| Reclassification                                | 55,016.62                                  | -          | 31.14      | (24,133.29)                     | 30,914.47      |
| Depreciation charged                            | (61,088.56)                                | (925.29)   | (253.36)   | -                               | (62,267.21)    |
| Currency translation differences                | (15,113.55)                                | (1,439.12) | (100.19)   | (3,688.60)                      | (20,341.46)    |
| Closing net book value                          | 256,779.40                                 | 18,395.71  | 1,768.70   | 44,557.63                       | 321,501.44     |
|   |  |            |            |                                 |                |
| As at 31 December 2019                          |  |            |            |                                 |                |
| Cost  | 867,907.44                                 | 26,944.20  | 4,379.89   | 44,557.63                       | 943,789.16     |
| Less Accumulated depreciation                   | (601,180.87)                               | (8,390.04) | (2,611.19) | -                               | (612,182.10)   |
| Less Accumulated impairment                     | (9,947.17)                                 | (158.45)   | -          | -                               | (10,105.62)    |
| Net book value                                  | 256,779.40                                 | 18,395.71  | 1,768.70   | 44,557.63                       | 321,501.44     |
| Adjustment from adoption of TFRS 16<br>(Note 6) |  |            |            |                                 |                |
| Cost  | (3,863.07)                                 | -          | (41.76)    | -                               | (3,904.83)     |
| Less Accumulated depreciation                   | 200.59                                     | -          | 12.48      | -                               | 213.07         |
| Net book value                                  | (3,662.48)                                 | -          | (29.28)    | -                               | (3,691.76)     |

-

|                                     | Consolidated financial statements          |            |            |                                 |                |
|-------------------------------------|--|------------|------------|---------------------------------|----------------|
|                                     |  |            |            | Unit                            | : Million Baht |
|                                     | Exploration<br>and<br>production<br>assets | Pipeline   | Others     | Assets<br>under<br>construction | Total          |
| As at 1 January 2020                |  |            |            |                                 |                |
| Cost                                | 864,044.37                                 | 26,944.20  | 4,338.13   | 44,557.63                       | 939,884.33     |
| Less Accumulated depreciation       | (600,980.28)                               | (8,390.04) | (2,598.71) | -                               | (611,969.03)   |
| Less Accumulated impairment         | (9,947.17)                                 | (158.45)   | -          | -                               | (10,105.62)    |
| Net book value                      | 253,116.92                                 | 18,395.71  | 1,739.42   | 44,557.63                       | 317,809.68     |
|                                     |  |            |            |                                 |                |
| For the year ended 31 December 2020 |  |            |            |                                 |                |
| Opening net book value              | 253,116.92                                 | 18,395.71  | 1,739.42   | 44,557.63                       | 317,809.68     |
| Additions                           | 16,922.24                                  | 66.12      | 377.61     | 26,615.03                       | 43,981.00      |
| Disposals and write-off, net        | (2,012.23)                                 | -          | (90.22)    | (978.27)                        | (3,080.72)     |
| Reclassification                    | 9,185.31                                   | -          | 9.24       | (8,667.24)                      | 527.31         |
| Depreciation charged                | (60,513.13)                                | (933.89)   | (447.25)   | -                               | (61,894.27)    |
| Allowance for impairment of assets  | (1,434.19)                                 | (12.15)    | -          | -                               | (1,446.34)     |
| Currency translation differences    | 476.06                                     | (36.56)    | (0.56)     | (844.85)                        | (405.91)       |
| Closing net book value              | 215,740.98                                 | 17,479.23  | 1,588.24   | 60,682.30                       | 295,490.75     |
|                                     |  |            |            |                                 |                |
| As at 31 December 2020              |  |            |            |                                 |                |
| Cost                                | 870,109.75                                 | 26,903.22  | 4,584.27   | 60,682.30                       | 962,279.54     |
| Less Accumulated depreciation       | (643,493.20)                               | (9,254.03) | (2,996.03) | -                               | (655,743.26)   |
| Less Accumulated impairment         | (10,875.57)                                | (169.96)   | -          | -                               | (11,045.53)    |
| Net book value                      | 215,740.98                                 | 17,479.23  | 1,588.24   | 60,682.30                       | 295,490.75     |

|  |  |         | Separate finar            | ncial statements  |
|--|--|---------|---------------------------|-------------------|
|  |  |         | Unit: M                   | Aillion US Dollar |
|  | Exploration<br>and<br>production<br>assets | Others  | Assets under construction | Total             |
| As at 1 January 2019                         |  |         |                           |                   |
| Cost   | 12,514.92                                  | 89.26   | 675.61                    | 13,279.79         |
| Less Accumulated depreciation                | (9,436.07)                                 | (61.66) | -                         | (9,497.73)        |
| Net book value                               | 3,078.85                                   | 27.60   | 675.61                    | 3,782.06          |
| For the year ended 31 December 2019          |  |         |                           |                   |
| Opening net book value                       | 3,078.85                                   | 27.60   | 675.61                    | 3,782.06          |
| Additions                                    | 294.72                                     | 1.95    | 115.43                    | 412.10            |
| Disposals and write-off, net                 | -  | (0.05)  | -                         | (0.05)            |
| Reclassification                             | 550.69                                     | 0.29    | (401.09)                  | 149.89            |
| Depreciation charged                         | (1,032.71)                                 | (5.42)  | -                         | (1,038.13)        |
| Closing net book value                       | 2,891.55                                   | 24.37   | 389.95                    | 3,305.87          |
| As at 31 December 2019                       |  |         |                           |                   |
| Cost   | 13,360.27                                  | 85.37   | 389.95                    | 13,835.59         |
| Less Accumulated depreciation                | (10,468.72)                                | (61.00) | -                         | (10,529.72)       |
| Net book value                               | 2,891.55                                   | 24.37   | 389.95                    | 3,305.87          |
| Adjustment from adoption of TFRS 16 (Note 6) |  |         |                           |                   |
| Cost   | -  | (1.38)  | -                         | (1.38)            |
| Less Accumulated depreciation                | -  | 0.41    | -                         | 0.41              |
| Net book value                               | -  | (0.97)  | -                         | (0.97)            |



|                                     |                                  |         | Separate fi  | nancial statements   |
|-------------------------------------|----------------------------------|---------|--------------|----------------------|
|                                     |                                  |         | Uni          | t: Million US Dollar |
|                                     | Exploration<br>and<br>production |         | Assets under |                      |
|                                     | assets                           | Others  | construction | Total                |
|                                     |                                  |         |              |                      |
| As at 1 January 2020                |                                  |         |              |                      |
| Cost                                | 13,360.27                        | 83.99   | 389.95       | 13,834.21            |
| Less Accumulated depreciation       | (10,468.72)                      | (60.59) | -            | (10,529.31)          |
| Net book value                      | 2,891.55                         | 23.40   | 389.95       | 3,304.90             |
|                                     |                                  |         |              |                      |
| For the year ended 31 December 2020 |                                  |         |              |                      |
| Opening net book value              | 2,891.55                         | 23.40   | 389.95       | 3,304.90             |
| Additions                           | 174.05                           | 6.18    | 245.62       | 425.85               |
| Disposals and write-off, net        | (0.90)                           | (0.14)  | (1.20)       | (2.24)               |
| Reclassification                    | 134.12                           | 0.30    | (134.42)     | -                    |
| Depreciation charged                | (970.23)                         | (4.03)  | -            | (974.26)             |
| Closing net book value              | 2,228.59                         | 25.71   | 499.95       | 2,754.25             |
|                                     |                                  |         |              |                      |
| As at 31 December 2020              |                                  |         |              |                      |
| Cost                                | 13,513.75                        | 89.32   | 499.95       | 14,103.02            |
| Less Accumulated depreciation       | (11,285.16)                      | (63.61) | -            | (11,348.77)          |
| Net book value                      | 2,228.59                         | 25.71   | 499.95       | 2,754.25             |



| Ī   |  |            | Separate fir              | nancial statements |
|---|--|------------|---------------------------|--------------------|
|   |  |            |                           | Unit: Million Baht |
|   | Exploration<br>and<br>production<br>assets | Others     | Assets under construction | Total              |
| -   |  |            |                           |                    |
| As at 1 January 2019                            |  |            |                           |                    |
| Cost  | 406,107.04                                 | 2,896.71   | 21,923.49                 | 430,927.24         |
| Less Accumulated depreciation                   | (306,198.97)                               | (2,000.96) | _                         | (308,199.93)       |
| Net book value                                  | 99,908.07                                  | 895.75     | 21,923.49                 | 122,727.31         |
|   |  |            |                           |                    |
| For the year ended 31 December 2019             |  |            |                           |                    |
| Opening net book value                          | 99,908.07                                  | 895.75     | 21,923.49                 | 122,727.31         |
| Additions                                       | 9,146.54                                   | 60.64      | 3,582.27                  | 12,789.45          |
| Disposals and write-off, net                    | (0.02)                                     | (1.62)     | -                         | (1.64)             |
| Reclassification                                | 17,090.72                                  | 8.86       | (12,447.85)               | 4,651.73           |
| Depreciation charged                            | (32,041.22)                                | (168.36)   | -                         | (32,209.58)        |
| Currency translation differences                | (6,912.40)                                 | (60.33)    | (1,299.43)                | (8,272.16)         |
| Closing net book value                          | 87,191.69                                  | 734.94     | 11,758.48                 | 99,685.11          |
|   |  |            |                           |                    |
| As at 31 December 2019                          |  |            |                           |                    |
| Cost  | 402,865.39                                 | 2,574.33   | 11,758.48                 | 417,198.20         |
| Less Accumulated depreciation                   | (315,673.70)                               | (1,839.39) | -                         | (317,513.09)       |
| Net book value                                  | 87,191.69                                  | 734.94     | 11,758.48                 | 99,685.11          |
| Adjustment from adoption of TFRS 16<br>(Note 6) |  |            |                           |                    |
| Cost  | -  | (41.76)    | -                         | (41.76)            |
| Less Accumulated depreciation                   | _  | 12.48      | -                         | 12.48              |
| Net book value                                  | -  | (29.28)    | -                         | (29.28)            |



|                                     |  |            | Separate fi               | nancial statements |
|-------------------------------------|--|------------|---------------------------|--------------------|
|                                     |  |            |                           | Unit: Million Baht |
|                                     | Exploration<br>and<br>production<br>assets | Others     | Assets under construction | Total              |
|                                     |  |            |                           |                    |
| As at 1 January 2020                |  |            |                           |                    |
| Cost                                | 402,865.39                                 | 2,532.57   | 11,758.48                 | 417,156.44         |
| Less Accumulated depreciation       | (315,673.70)                               | (1,826.91) |                           | (317,500.61)       |
| Net book value                      | 87,191.69                                  | 705.66     | 11,758.48                 | 99,655.83          |
|                                     |  |            |                           |                    |
| For the year ended 31 December 2020 |  |            |                           |                    |
| Opening net book value              | 87,191.69                                  | 705.66     | 11,758.48                 | 99,655.83          |
| Additions                           | 5,443.47                                   | 193.33     | 7,682.01                  | 13,318.81          |
| Disposals and write-off, net        | (28.15)                                    | (4.20)     | (37.47)                   | (69.82)            |
| Reclassification                    | 4,194.78                                   | 9.23       | (4,204.01)                | -                  |
| Depreciation charged                | (30,348.21)                                | (126.10)   | -                         | (30,474.31)        |
| Currency translation differences    | 486.75                                     | (5.68)     | (181.86)                  | 299.21             |
| Closing net book value              | 66,940.33                                  | 772.24     | 15,017.15                 | 82,729.72          |
|                                     |  |            |                           |                    |
| As at 31 December 2020              |  |            |                           |                    |
| Cost                                | 405,913.35                                 | 2,682.81   | 15,017.15                 | 423,613.31         |
| Less Accumulated depreciation       | (338,973.02)                               | (1,910.57) | -                         | (340,883.59)       |
| Net book value                      | 66,940.33                                  | 772.24     | 15,017.15                 | 82,729.72          |

Impairment loss on property, plant and equipment is disclosed in Note 24.

As at 31 December 2020 and 2019, the Group has capital expenditure commitments as disclosed in Note 40.1.



## 20 Right-of-use assets

|                                     | Consolidated financial statements |         |                   |  |  |
|-------------------------------------|-----------------------------------|---------|-------------------|--|--|
|                                     |                                   | Unit: M | lillion US Dollar |  |  |
|                                     | Exploration and production assets |         |                   |  |  |
|                                     | production assets                 | Others  | Total             |  |  |
| As at 1 January 2020                |                                   |         |                   |  |  |
| Cost                                | -                                 | -       | -                 |  |  |
| Less Accumulated amortisation       |                                   | -       | -                 |  |  |
| Net book value                      |                                   | -       | -                 |  |  |
|                                     |                                   |         |                   |  |  |
| For the year ended 31 December 2020 |                                   |         |                   |  |  |
| Opening net book value              | -                                 | -       | -                 |  |  |
| Impact of the adoption of TFRS 16   | 466.86                            | 28.72   | 495.58            |  |  |
| Additions                           | 90.82                             | 6.15    | 96.97             |  |  |
| Decreases                           | (0.67)                            | (0.05)  | (0.72)            |  |  |
| Agreement modification              | 1.37                              | 0.02    | 1.39              |  |  |
| Amortisation charged                | (90.41)                           | (20.03) | (110.44)          |  |  |
| Closing net book value              | 467.97                            | 14.81   | 482.78            |  |  |
|                                     |                                   |         |                   |  |  |
| As at 31 December 2020              |                                   |         |                   |  |  |
| Cost                                | 557.84                            | 34.80   | 592.64            |  |  |
| Less Accumulated amortisation       | (89.87)                           | (19.99) | (109.86)          |  |  |
| Net book value                      | 467.97                            | 14.81   | 482.78            |  |  |

-

|                                     | Consolidated financial statements |          |                   |  |  |
|-------------------------------------|-----------------------------------|----------|-------------------|--|--|
|                                     |                                   | Uı       | nit: Million Baht |  |  |
|                                     | Exploration and production assets | Others   | Total             |  |  |
|                                     |                                   |          |                   |  |  |
| As at 1 January 2020                |                                   |          |                   |  |  |
| Cost                                | -                                 | -        | -                 |  |  |
| Less Accumulated amortisation       |                                   | -        | -                 |  |  |
| Net book value                      | -                                 | -        | -                 |  |  |
|                                     |                                   |          |                   |  |  |
| For the year ended 31 December 2020 |                                   |          |                   |  |  |
| Opening net book value              | -                                 | -        | -                 |  |  |
| Impact of the adoption of TFRS 16   | 14,077.53                         | 866.15   | 14,943.68         |  |  |
| Additions                           | 2,840.68                          | 192.13   | 3,032.81          |  |  |
| Decreases                           | (20.85)                           | (1.61)   | (22.46)           |  |  |
| Agreement modification              | 42.81                             | 0.88     | 43.69             |  |  |
| Amortisation charged                | (2,825.64)                        | (626.84) | (3,452.48)        |  |  |
| Currency translation differences    | (58.02)                           | 14.01    | (44.01)           |  |  |
| Closing net book value              | 14,056.51                         | 444.72   | 14,501.23         |  |  |
|                                     |                                   |          |                   |  |  |
| As at 31 December 2020              |                                   |          |                   |  |  |
| Cost                                | 16,755.97                         | 1,045.40 | 17,801.37         |  |  |
| Less Accumulated amortisation       | (2,699.46)                        | (600.68) | (3,300.14)        |  |  |
| Net book value                      | 14,056.51                         | 444.72   | 14,501.23         |  |  |

136

|                                     | Separate financial statements        |         |                  |  |
|-------------------------------------|--------------------------------------|---------|------------------|--|
|                                     |                                      | Unit: M | illion US Dollar |  |
|                                     | Exploration and<br>production assets | Others  | Total            |  |
|                                     | production assets                    | Others  | TOLAT            |  |
| As at 1 January 2020                |                                      |         |                  |  |
| Cost                                | -                                    | -       | -                |  |
| Less Accumulated amortisation       | -                                    | -       | -                |  |
| Net book value                      | -                                    | -       | -                |  |
|                                     |                                      |         |                  |  |
| For the year ended 31 December 2020 |                                      |         |                  |  |
| Opening net book value              | -                                    | -       | -                |  |
| Impact of the adoption of TFRS 16   | 5.94                                 | 25.48   | 31.42            |  |
| Additions                           | 42.25                                | 5.38    | 47.63            |  |
| Agreement modification              | (0.26)                               | -       | (0.26)           |  |
| Amortisation charged                | (7.94)                               | (18.44) | (26.38)          |  |
| Closing net book value              | 39.99                                | 12.42   | 52.41            |  |
|                                     |                                      |         |                  |  |
| As at 31 December 2020              |                                      |         |                  |  |
| Cost                                | 47.93                                | 30.86   | 78.79            |  |
| Less Accumulated amortisation       | (7.94)                               | (18.44) | (26.38)          |  |
| Net book value                      | 39.99                                | 12.42   | 52.41            |  |



|                                     | Separate financial statements        |          |                   |  |  |
|-------------------------------------|--------------------------------------|----------|-------------------|--|--|
|                                     |                                      | Uı       | nit: Million Baht |  |  |
|                                     | Exploration and<br>production assets | Others   | Total             |  |  |
|                                     |                                      |          |                   |  |  |
| As at 1 January 2020                |                                      |          |                   |  |  |
| Cost                                | -                                    | -        | -                 |  |  |
| Less Accumulated amortisation       |                                      | -        | -                 |  |  |
| Net book value                      |                                      | -        | -                 |  |  |
|                                     |                                      |          |                   |  |  |
| For the year ended 31 December 2020 |                                      |          |                   |  |  |
| Opening net book value              | -                                    | -        | -                 |  |  |
| Impact of the adoption of TFRS 16   | 179.13                               | 768.24   | 947.37            |  |  |
| Additions                           | 1,321.52                             | 168.43   | 1,489.95          |  |  |
| Agreement modification              | (8.31)                               | 0.04     | (8.27)            |  |  |
| Amortisation charged                | (246.32)                             | (577.03) | (823.35)          |  |  |
| Currency translation differences    | (44.70)                              | 13.31    | (31.39)           |  |  |
| Closing net book value              | 1,201.32                             | 372.99   | 1,574.31          |  |  |
|                                     |                                      |          |                   |  |  |
| As at 31 December 2020              |                                      |          |                   |  |  |
| Cost                                | 1,439.64                             | 927.06   | 2,366.70          |  |  |
| Less Accumulated amortisation       | (238.32)                             | (554.07) | (792.39)          |  |  |
| Net book value                      | 1,201.32                             | 372.99   | 1,574.31          |  |  |



### 21 Goodwill

|                                     | Consolidated financial statements |                         | Sepa          | arate financial statements |
|-------------------------------------|-----------------------------------|-------------------------|---------------|----------------------------|
|                                     | Unit: Million                     | Unit: Million           | Unit: Million | Unit: Million              |
|                                     | US Dollar                         | Baht                    | US Dollar     | Baht                       |
| As at 1 January 2019                |                                   |                         |               |                            |
| Cost                                | 1 256 62                          | 44 000 56               | 75.16         | 0 400 05                   |
| Less Provision for impairment       | 1,356.63<br>(112.39)              | 44,022.56<br>(3,647.11) | 75.10         | 2,438.85                   |
| Net book value                      | 1,244.24                          | 40,375.45               | 75.16         | 2,438.85                   |
| Net book value                      | 1,244.24                          | 40,375.45               | 75.10         | 2,430.05                   |
| For the year ended 31 December 2019 |                                   |                         |               |                            |
| Opening net book value              | 1,244.24                          | 40,375.45               | 75.16         | 2,438.85                   |
| Business acquisition                | 659.56                            | 20,204.39               | -             | -                          |
| Currency translation differences    | -                                 | (3,172.59)              | -             | (172.55)                   |
| Closing net book value              | 1,903.80                          | 57,407.25               | 75.16         | 2,266.30                   |
|                                     | · · · · ·                         |                         |               |                            |
| As at 31 December 2019              |                                   |                         |               |                            |
| Cost                                | 2,016.19                          | 60,796.32               | 75.16         | 2,266.30                   |
| Less Provision for impairment       | (112.39)                          | (3,389.07)              | -             | -                          |
| Net book value                      | 1,903.80                          | 57,407.25               | 75.16         | 2,266.30                   |
|                                     |                                   |                         |               |                            |
| For the year ended 31 December 2020 |                                   |                         |               |                            |
| Opening net book value              | 1,903.80                          | 57,407.25               | 75.16         | 2,266.30                   |
| Currency translation differences    | -                                 | (222.61)                | -             | (8.79)                     |
| Closing net book value              | 1,903.80                          | 57,184.64               | 75.16         | 2,257.51                   |
|                                     |                                   |                         |               |                            |
| As at 31 December 2020              |                                   |                         |               |                            |
| Cost                                | 2,016.19                          | 60,560.57               | 75.16         | 2,257.51                   |
| Less Provision for impairment       | (112.39)                          | (3,375.93)              | -             | -                          |
| Net book value                      | 1,903.80                          | 57,184.64               | 75.16         | 2,257.51                   |

Goodwill is allocated to the Group's cash-generating units (CGUs) identified according to business segment.

Goodwill allocation presented by the CGUs as follows:

|                            | Consolidated financial statements |          |           |              |  |
|----------------------------|-----------------------------------|----------|-----------|--------------|--|
|                            | Unit: Million US Dollar           |          | Unit:     | Million Baht |  |
|                            | 2020 2019                         |          | 2020      | 2019         |  |
| As at 31 December          |                                   |          |           |              |  |
| Exploration and production |                                   |          |           |              |  |
| Southeast Asia             | 974.56                            | 974.56   | 29,272.94 | 29,386.88    |  |
| Africa                     | 725.96                            | 725.96   | 21,805.91 | 21,890.80    |  |
| Others                     | 185.87                            | 185.87   | 5,582.92  | 5,604.66     |  |
| Others                     | 17.41                             | 17.41    | 522.87    | 524.91       |  |
| Total                      | 1,903.80                          | 1,903.80 | 57,184.64 | 57,407.25    |  |

|                            | Separate financial statements |       |                    |          |
|----------------------------|-------------------------------|-------|--------------------|----------|
|                            | Unit: Million US Dollar       |       | Unit: Million Baht |          |
|                            | 2020                          | 2019  | 2020               | 2019     |
| As at 31 December          |                               |       |                    |          |
| Exploration and production |                               |       |                    |          |
| Southeast Asia             | 75.16                         | 75.16 | 2,257.51           | 2,266.30 |
| Total                      | 75.16                         | 75.16 | 2,257.51           | 2,266.30 |

#### **Goodwill impairment testing**

The Group tested impairment of goodwill from business acquisition annually. The Group compares the carrying amount of the goodwill with the recoverable amount of each cash-generating units which is the higher of the fair value less cost to sell or value-in-use.

An asset or group of assets described as cash-generating unit (CGU) is the smallest identifiable group of assets that generates inflows that are largely independent from the cash flows from other CGUs. The Group considers the CGU at the individual project level assessing the expected future cash flows over the average life of the project with a growth rate along with the industry's information.

The measurements of fair value less cost to sell and value-in-use are based on a proved and probable reserve production profile including other key estimates and assumptions such as the short-term forward oil price curve, long-term oil price based on supply and demand of oil in the global market, exchange rates, discount rates, and project management team estimate of the capital expenditure and operating expenditure as well as past industry performance which were consistent with the external sources of information. The weighted average cost of capital of each project in each region is used for discount rate for financial estimation. For consolidated financial statements, the discount rate for exploration and production segment consists of Southeast Asia at rate of 4% - 6% per annum (2019: 6% - 7% per annum), Africa at rate of 7% - 10% per annum (2019: 8% - 12% per annum) and others at rate of 5% - 8% per annum (2019: 5% - 9% per annum), and for others segment is at rate of 4% per annum. For separate financial statements, the discount rate for exploration and production segment rate for exploration and production segment consists of Southeast Asia at rate of 4% per annum. For separate financial statements, the discount rate for exploration and production segment consists of Southeast Asia at rate of 4% per annum. For separate financial statements, the discount rate for exploration and production segment consists of Southeast Asia at rate of 4% per annum. For separate financial statements, the discount rate for exploration and production segment consists of Southeast Asia at rate of 4% - 5% per annum (2019: 6% - 7% per annum).

If the discounted cash flow in goodwill impairment testing increases approximately 0.50% - 5.50% per annum, there still would be no allowance for goodwill impairment recognised in the consolidated and separate financial statements for the year ended 31 December 2020.

# 22 Intangible assets

|  | Consolidated financial statements |             |          |
|--|-----------------------------------|-------------|----------|
|  | Unit: Million US Dollar           |             |          |
|  | Other intangible                  | Development |          |
|  | assets                            | cost        | Total    |
| As at 1 January 2019                         |                                   |             |          |
| Cost   | 166.80                            | 11.26       | 178.06   |
| Less Accumulated amotisation                 | (95.86)                           | (0.11)      | (95.97)  |
| Net book value                               | 70.94                             | 11.15       | 82.09    |
| For the year ended 31 December 2019          |                                   |             |          |
| Opening net book value                       | 70.94                             | 11.15       | 82.09    |
| Business acquisition                         | 39.20                             | -           | 39.20    |
| Additions                                    | 19.61                             | 6.57        | 26.18    |
| Amortisation charged                         | (15.12)                           | (0.37)      | (15.49)  |
| Closing net book value                       | 114.63                            | 17.35       | 131.98   |
|  |                                   |             |          |
| As at 31 December 2019                       |                                   |             |          |
| Cost   | 225.61                            | 17.83       | 243.44   |
| Less Accumulated amotisation                 | (110.98)                          | (0.48)      | (111.46) |
| Net book value                               | 114.63                            | 17.35       | 131.98   |
| Adjustment from adoption of TFRS 16 (Note 6) |                                   |             |          |
| Cost   | (9.21)                            | -           | (9.21)   |
| Less Accumulated amotisation                 | 4.36                              | -           | 4.36     |
| Net book value                               | (4.85)                            | -           | (4.85)   |
|  |                                   |             |          |
| As at 1 January 2020                         |                                   |             |          |
| Cost   | 216.40                            | 17.83       | 234.23   |
| Less Accumulated amotisation                 | (106.62)                          | (0.48)      | (107.10) |
| Net book value                               | 109.78                            | 17.35       | 127.13   |
| For the year ended 31 December 2020          |                                   |             |          |
| Opening net book value                       | 109.78                            | 17.35       | 127.13   |
| Additions                                    | 24.05                             | 4.41        | 28.46    |
| Disposals and write-off, net                 | (0.12)                            | (3.81)      | (3.93)   |
| Amortisation charged                         | (20.80)                           | (0.41)      | (21.21)  |
| Closing net book value                       | 112.91                            | 17.54       | 130.45   |
|  |                                   |             |          |
| As at 31 December 2020                       |                                   |             |          |
| Cost   | 244.70                            | 18.43       | 263.13   |
| Less Accumulated amotisation                 | (131.79)                          | (0.89)      | (132.68) |
| Net book value                               | 112.91                            | 17.54       | 130.45   |

|  | Consolidated financial statements |             |            |
|--|-----------------------------------|-------------|------------|
|  | Unit: Million Ba                  |             |            |
|  | Other intangible                  | Development |            |
|  | assets                            | cost        | Total      |
| As at 1 January 2019                         |                                   |             |            |
| Cost   | 5,412.51                          | 365.46      | 5,777.97   |
| Less Accumulated amotisation                 | (3,110.57)                        | (3.52)      | (3,114.09) |
| Net book value                               | 2,301.94                          | 361.94      | 2,663.88   |
| For the year ended 31 December 2019          |                                   |             |            |
| Opening net book value                       | 2,301.94                          | 361.94      | 2,663.88   |
| Business acquisition                         | 1,184.21                          | -           | 1,184.21   |
| Additions                                    | 608.75                            | 203.89      | 812.64     |
| Amortisation charged                         | (468.26)                          | (11.66)     | (479.92)   |
| Currency translation differences             | (170.13)                          | (31.07)     | (201.20)   |
| Closing net book value                       | 3,456.51                          | 523.10      | 3,979.61   |
| As at 31 December 2019                       |                                   |             |            |
| Cost   | 6,803.08                          | 537.70      | 7,340.78   |
| Less Accumulated amotisation                 | (3,346.57)                        | (14.60)     | (3,361.17) |
| Net book value                               | 3,456.51                          | 523.10      | 3,979.61   |
|  | · · · ·                           |             | ,          |
| Adjustment from adoption of TFRS 16 (Note 6) |                                   |             |            |
| Cost   | (277.84)                          | -           | (277.84)   |
| Less Accumulated amotisation                 | 131.43                            | -           | 131.43     |
| Net book value                               | (146.41)                          | -           | (146.41)   |
| As at 1 January 2020                         |                                   |             |            |
| Cost   | 6,525.24                          | 537.70      | 7,062.94   |
| Less Accumulated amotisation                 | (3,215.14)                        | (14.60)     | (3,229.74) |
| Net book value                               | 3,310.10                          | 523.10      | 3,833.20   |
|  |                                   |             |            |
| For the year ended 31 December 2020          |                                   |             |            |
| Opening net book value                       | 3,310.10                          | 523.10      | 3,833.20   |
| Additions                                    | 752.41                            | 137.90      | 890.31     |
| Disposals and write-off, net                 | (3.79)                            | (119.08)    | (122.87)   |
| Amortisation charged                         | (650.65)                          | (12.61)     | (663.26)   |
| Currency translation differences             | (16.66)                           | (2.28)      | (18.94)    |
| Closing net book value                       | 3,391.41                          | 527.03      | 3,918.44   |
| As at 31 December 2020                       |                                   |             |            |
| Cost   | 7,349.94                          | 553.69      | 7,903.63   |
| Less Accumulated amotisation                 | (3,958.53)                        | (26.66)     | (3,985.19) |
| Net book value                               | 3,391.41                          | 527.03      | 3,918.44   |
|  |                                   |             |            |

| Other intangible     Development       assets     cost | <b>Total</b><br>158.35<br>(86.75) |
|--|-----------------------------------|
|  | 158.35                            |
| As at 1 January 2019                                   |                                   |
|  |                                   |
| Cost 147.09 11.26                                      | (86.75)                           |
| Less Accumulated amotisation (86.64) (0.11)            |                                   |
| Net book value         60.45         11.15             | 71.60                             |
| For the year ended 31 December 2019                    |                                   |
| Opening net book value 60.45 11.15                     | 71.60                             |
| Additions 15.54 3.93                                   | 19.47                             |
| Amortisation charged (12.52) (0.37)                    | (12.89)                           |
| Closing net book value 63.47 14.71                     | 78.18                             |
| As at 31 December 2019                                 |                                   |
| Cost 162.62 15.19                                      | 177.81                            |
| Less Accumulated amotisation (99.15) (0.48)            | (99.63)                           |
| Net book value         63.47         14.71             | 78.18                             |
| For the year ended 31 December 2020                    |                                   |
| Opening net book value 63.47 14.71                     | 78.18                             |
| Additions 19.46 2.63                                   | 22.09                             |
| Disposals and write-off, net - (3.81)                  | (3.81)                            |
| Amortisation charged (14.10) (0.40)                    | (14.50)                           |
| Closing net book value 68.83 13.13                     | 81.96                             |
| As at 31 December 2020                                 |                                   |
| Cost 182.08 14.01                                      | 196.09                            |
| Less Accumulated amotisation (113.25) (0.88)           | 114.13)                           |
| Net book value         68.83         13.13             | 81.96                             |



|                                     | Separate financial statements |                   |                  |
|-------------------------------------|-------------------------------|-------------------|------------------|
|                                     | Other intangible              | Un<br>Development | it: Million Baht |
|                                     | assets                        | cost              | Total            |
| As at 1 January 2019                |                               |                   |                  |
| Cost                                | 4,773.02                      | 365.46            | 5,138.48         |
| Less Accumulated amotisation        | (2,811.55)                    | (3.52)            | (2,815.07)       |
| Net book value                      | 1,961.47                      | 361.94            | 2,323.41         |
| For the year ended 31 December 2019 |                               |                   |                  |
| Opening net book value              | 1,961.47                      | 361.94            | 2,323.41         |
| Additions                           | 482.15                        | 122.09            | 604.24           |
| Amortisation charged                | (388.34)                      | (11.66)           | (400.00)         |
| Currency translation differences    | (141.51)                      | (28.74)           | (170.25)         |
| Closing net book value              | 1,913.77                      | 443.63            | 2,357.40         |
| As at 31 December 2019              |                               |                   |                  |
| Cost                                | 4,903.52                      | 458.23            | 5,361.75         |
| Less Accumulated amotisation        | (2,989.75)                    | (14.60)           | (3,004.35)       |
| Net book value                      | 1,913.77                      | 443.63            | 2,357.40         |
| For the year ended 31 December 2020 |                               |                   |                  |
| Opening net book value              | 1,913.77                      | 443.63            | 2,357.40         |
| Additions                           | 608.67                        | 82.03             | 690.70           |
| Disposals and write-off, net        | -                             | (119.07)          | (119.07)         |
| Amortisation charged                | (440.80)                      | (12.53)           | (453.33)         |
| Currency translation differences    | (14.11)                       | 0.24              | (13.87)          |
| Closing net book value              | 2,067.53                      | 394.30            | 2,461.83         |
| As at 31 December 2020              |                               |                   |                  |
| Cost                                | 5,469.07                      | 420.88            | 5,889.95         |
| Less Accumulated amotisation        | (3,401.54)                    | (26.58)           | (3,428.12)       |
| Net book value                      | 2,067.53                      | 394.30            | 2,461.83         |

# 23 Exploration and evaluation assets

|   | Consoli            | dated financial        | Separate financial |               |  |
|---|--------------------|------------------------|--------------------|---------------|--|
|   |                    | statements             |                    | statements    |  |
|   | Unit: Million      | Unit: Million          | Unit: Million      | Unit: Million |  |
|   | US Dollar          | Baht                   | US Dollar          | Baht          |  |
| As at 1 January 2019                    |                    |                        |                    |               |  |
| Cost                                    | 4,715.36           | 153,012.76             | 149.89             | 4,863.79      |  |
| Less Accumulated impairment             | (1,643.45)         | (53,329.81)            | -                  | -             |  |
| Net book value                          | 3,071.91           | 99,682.95              | 149.89             | 4,863.79      |  |
| For the year ended 31 December 2019     |                    |                        |                    |               |  |
| Opening net book value                  | 3,071.91           | 99,682.95              | 149.89             | 4,863.79      |  |
| Business acquisition                    | 749.00             | 23,036.18              | -                  | -             |  |
| Additions                               | 119.22             | 3,700.24               | -                  | -             |  |
| Decreases                               | (65.83)            | (2,043.21)             | -                  | -             |  |
| Reclassification                        | (996.12)           | (30,914.47)            | (149.89)           | (4,651.73)    |  |
| Currency translation differences        | 2.14               | (6,608.56)             | -                  | (212.06)      |  |
| Closing net book value                  | 2,880.32           | 86,853.13              | -                  | -             |  |
| As at 31 December 2019                  |                    |                        |                    |               |  |
| Cost                                    | 4,606.52           | 138,905.21             | -                  | -             |  |
| Less Accumulated impairment             | (1,726.20)         | (52,052.08)            | -                  | -             |  |
| Net book value                          | 2,880.32           | 86,853.13              | -                  | -             |  |
|   |                    |                        |                    |               |  |
| For the year ended 31 December 2020     |                    |                        |                    |               |  |
| Opening net book value                  | 2,880.32           | 86,853.13              | -                  | -             |  |
| Additions                               | 103.43             | 3,234.79               | -                  | -             |  |
| Decreases<br>Reclassification           | (35.15)<br>(16.87) | (1,099.37)<br>(527.31) | -                  | -             |  |
| Allowance for impairment loss on assets | (43.65)            | (1,360.30)             | -                  | -             |  |
| Currency translation differences        | (43.05)            | (407.35)               | _                  |               |  |
| Closing net book value                  | 2,886.22           | 86,693.59              | -                  | -             |  |
|   | 2,000.22           | 00,000.00              |                    |               |  |
| As at 31 December 2020                  |                    |                        |                    |               |  |
| Cost                                    | 4,693.59           | 140,981.77             | -                  | -             |  |
| Less Accumulated impairment             | (1,807.37)         | (54,288.18)            | -                  | -             |  |
| Net book value                          | 2,886.22           | 86,693.59              | -                  | -             |  |

Impairment loss on exploration and evaluation assets is disclosed in Note 24.



#### 24 Impairment loss on assets

Assets that are subject to amortisation are reviewed for impairment whenever events or change in circumstances indicate that the carrying amount of the assets exceeds its recoverable amount. An impairment loss is recognised when the carrying amount of the asset is higher than its recoverable amount which is the higher of the asset's fair value less cost to sell or value-in-use.

An asset or group of assets described as cash-generating unit (CGU) is the smallest identifiable group of assets that generates inflows that are largely independent from the cash flows from other CGUs. The Group considers the CGU at the individual project level assessing the expected future cash flows over the average life of the project with a growth rate along with the industry's information.

During the first half-year of 2020, the oil price decreased, along with the significant reduction of the production plan of the producing projects due to a decline of petroleum reserves estimates in the second half-year of 2020. These events are the key indicators that require the Group to perform impairment assessment for its projects.

The Group measures recoverable amount of assets with measurement of fair value less cost to sell and value-in-use which are based on a proved and probable reserve production profile including other key estimates and assumptions such as the short-term forward oil price curve, long-term oil price based on supply and demand of oil in the world market, exchange rates, discount rates, and project management team estimate of the capital expenditure and operating expenditure as well as past industry performance which were consistent with the external sources of information. The discounted cash flow was used in the calculation by applying discount rates about 4% - 5%.

During the year ended 31 December 2020, the Group recognised impairment loss on assets in the consolidated profit or loss, categorised by classification of asset as follows:

|  | Consolidated financial statement |                       |  |
|--|----------------------------------|-----------------------|--|
|  | Unit: Million US<br>Dollar       | Unit: Million<br>Baht |  |
| Impairment loss on exploration and production assets |                                  |                       |  |
| recognised in property, plant and equipment          | 47.93                            | 1,446.34              |  |
| Impairment loss on exploration and evaluation assets | 43.65                            | 1,360.30              |  |
| Total  | 91.58                            | 2,806.64              |  |

| Consolidated financial statements |  |                                       |                                       |                    |  |
|-----------------------------------|--|---------------------------------------|---------------------------------------|--------------------|--|
|                                   |  |                                       | Unit: M                               | illion US Dollar   |  |
|                                   |  | The carrying<br>amount of<br>group of | The carrying<br>amount of<br>group of |                    |  |
| Group of<br>assets                | Basis using to indentify the<br>recoverable amount | assets before<br>impairment           | assets after<br>impairment            | Impairment<br>loss |  |
| Thailand                          | Value-in-use                                       | 6.95                                  | 3.10                                  | 3.85               |  |
| Overseas                          | Value-in-use                                       | 72.58                                 | 28.50                                 | 44.08              |  |
| Overseas                          | Fair value less cost to sell                       | 43.65                                 |                                       | 43.65              |  |
|                                   |  |                                       | Total                                 | 91.58              |  |



| Consolidated financial statements |  |  |   |                    |  |
|-----------------------------------|--|--|---|--------------------|--|
|                                   |  |  | Ur  | nit: Million Baht  |  |
| Group of                          | Paoia using to indeptify the                       | The carrying<br>amount of<br>group of<br>assets before | The carrying<br>amount of<br>group of<br>assets after | Impoirmont         |  |
| Group of<br>assets                | Basis using to indentify the<br>recoverable amount | impairment   | impairment  | Impairment<br>Ioss |  |
| Thailand                          | Value-in-use                                       | 214.69   | 94.75   | 119.94             |  |
| Overseas                          | Value-in-use                                       | 2,180.09   | 853.70  | 1,326.39           |  |
| Overseas                          | Fair value less cost to sell                       | 1,360.31   |   | 1,360.31           |  |
|                                   |  |  | Total   | 2,806.64           |  |

The amount of impairment loss on assets is disclosed in Note 11 Segment and revenue information.

# 25 Deferred income taxes

The analysis of deferred tax assets and liabilities is as follows:

|  | Consolidated financial statements |                |                    |             |  |
|--|-----------------------------------|----------------|--------------------|-------------|--|
|  | Unit: Mil                         | lion US Dollar | Unit: Million Baht |             |  |
|  | 2020                              | 2019           | 2020               | 2019        |  |
|  |                                   |                |                    |             |  |
| Deferred tax assets:                                   |                                   |                |                    |             |  |
| Deferred tax asset to be recovered                     |                                   |                |                    |             |  |
| within 12 months                                       | 617.58                            | 418.82         | 18,550.21          | 12,629.22   |  |
| Deferred tax asset to be recovered more than 12 months | 481.10                            | 542.91         | 14,450.97          | 16,370.77   |  |
|  | 1,098.68                          | 961.73         | 33,001.18          | 28,999.99   |  |
| Deferred tax liabilities:                              | .,                                |                |                    |             |  |
| Deferred tax liabilities to be settled                 |                                   |                |                    |             |  |
| within 12 months                                       | -                                 | -              | -                  | -           |  |
| Deferred tax liabilities to be settled                 |                                   |                |                    |             |  |
| more than 12 months                                    | (1,445.79)                        | (1,442.49)     | (43,427.36)        | (43,496.81) |  |
|  | (1,445.79)                        | (1,442.49)     | (43,427.36)        | (43,496.81) |  |
| Deferred taxes, net                                    | (347.11)                          | (480.76)       | (10,426.18)        | (14,496.82) |  |

|  | Separate financial statements |                |                    |           |  |
|--|-------------------------------|----------------|--------------------|-----------|--|
|  | Unit: Mil                     | lion US Dollar | Unit: Million Baht |           |  |
|  | 2020                          | 2019           | 2020               | 2019      |  |
| Deferred tax assets:   |                               |                |                    |           |  |
| Deferred tax asset to be recovered<br>within 12 months<br>Deferred tax asset to be recovered   | 545.85                        | 385.34         | 16,395.69          | 11,619.53 |  |
| more than 12 months  | 223.93                        | 254.48         | 6,726.21           | 7,673.52  |  |
|  | 769.78                        | 639.82         | 23,121.90          | 19,293.05 |  |
| Deferred tax liabilities:<br>Deferred tax liabilities to be settled<br>within 12 months<br>Deferred tax liabilities to be settled<br>more than 12 months | -                             | -              | -                  | -         |  |
|  |                               |                | -                  | -         |  |
| Deferred taxes, net  | 769.78                        | 639.82         | 23,121.90          | 19,293.05 |  |



|   |                            |                     |   | Conso                | lidated financia                       | I statements                    |
|---|----------------------------|---------------------|---|----------------------|--|---------------------------------|
|   |                            |                     |   |                      | Unit: Milli                            | on US Dollar                    |
|   | As at<br>1 January<br>2019 | Statement of income | Statement of<br>comprehensive<br>income | Business acquisition | Currency<br>translation<br>differences | As at<br>31<br>December<br>2019 |
| Deferred tax assets                                       |                            |                     |   |                      |  |                                 |
| Decommissioning costs<br>Provision for employee           | 828.34                     | 75.25               | -                                       | 112.56               | -                                      | 1,016.15                        |
| benefits<br>Property, plant and equipment                 | 74.43                      | 16.78               | 12.02                                   | -                    | 0.15                                   | 103.38                          |
| and intangible assets                                     | 7.80                       | (0.02)              | -                                       | -                    | -                                      | 7.78                            |
| Loss carried forward                                      | 264.77                     | 29.55               | 2.94                                    | 0.51                 | -                                      | 297.77                          |
| Financial derivative<br>Allowance for impairment loss     | 0.02                       | 0.52                | -                                       | -                    | -                                      | 0.54                            |
| on assets   | 114.74                     | 10.69               | -                                       | -                    | -                                      | 125.43                          |
| Others  | 142.99                     | (16.54)             | 0.33                                    | 74.30                | -                                      | 201.08                          |
| <b>— — — — — —</b>  | 1,433.09                   | 116.23              | 15.29                                   | 187.37               | 0.15                                   | 1,752.13                        |
| Tax effect of currency translation on tax base            | 77.40                      | 26.19               | -                                       | -                    | -                                      | 103.59                          |
| -   | 1,510.49                   | 142.42              | 15.29                                   | 187.37               | 0.15                                   | 1,855.72                        |
| Deferred tax liabilities<br>Property, plant and equipment |                            |                     |   |                      |  |                                 |
| and intangible assets                                     | 1,820.30                   | (274.20)            | -                                       | 761.58               | -                                      | 2,307.68                        |
| Financial derivative                                      | 3.63                       | 7.70                | 3.04                                    | -                    | -                                      | 14.37                           |
| Others  | 5.02                       | (4.02)              | (0.20)                                  | 12.44                | -                                      | 13.24                           |
| Tax effect of currency translation                        | 1,828.95                   | (270.52)            | 2.84                                    | 774.02               | -                                      | 2,335.29                        |
| on tax base   | 0.88                       | 0.31                | -                                       | -                    | -                                      | 1.19                            |
|   | 1,829.83                   | (270.21)            | 2.84                                    | 774.02               | -                                      | 2,336.48                        |
| Deferred taxes, net                                       | (319.34)                   | 412.63              | 12.45                                   | (586.65)             | 0.15                                   | (480.76)                        |

# The movements in deferred tax assets and liabilities during the year are as follows:



150

|  | Consolidated financial statements |                     |   |                              |  |
|--|-----------------------------------|---------------------|---|------------------------------|--|
|  |                                   |                     | Unit: M                                 | Million US Dollar            |  |
|  | As at<br>1 January<br>2020        | Statement of income | Statement of<br>comprehensive<br>income | As at<br>31 December<br>2020 |  |
| Deferred tax assets  |                                   |                     |   |                              |  |
| Decommissioning costs  | 1,016.15                          | 95.70               | -                                       | 1,111.85                     |  |
| Provision for employee benefits<br>Property, plant and equipment and | 103.38                            | 7.73                | -                                       | 111.11                       |  |
| intangible assets  | 7.78                              | (2.03)              | -                                       | 5.75                         |  |
| Loss carried forward   | 297.77                            | 15.32               | 2.43                                    | 315.52                       |  |
| Financial derivatives<br>Allowance for impairment loss               | 0.54                              | 1.24                | -                                       | 1.78                         |  |
| on assets  | 125.43                            | 9.74                | -                                       | 135.17                       |  |
| Lease liabilities  | -                                 | 4.88                | -                                       | 4.88                         |  |
| Others   | 201.08                            | 1.25                | -                                       | 202.33                       |  |
|  | 1,752.13                          | 133.83              | 2.43                                    | 1,888.39                     |  |
| Tax effect of currency translation on tax base                       | 103.59                            | (95.41)             | -                                       | 8.18                         |  |
|  | 1,855.72                          | 38.42               | 2.43                                    | 1,896.57                     |  |
| Deferred tax liabilities<br>Property, plant and equipment and        |                                   |                     |   |                              |  |
| intangible assets  | 2,307.68                          | (85.50)             | -                                       | 2,222.18                     |  |
| Financial derivatives  | 14.37                             | (1.49)              | (7.74)                                  | 5.14                         |  |
| Others   | 13.24                             | 3.15                | (0.03)                                  | 16.36                        |  |
|  | 2,335.29                          | (83.84)             | (7.77)                                  | 2,243.68                     |  |
| Tax effect of currency translation on tax base                       | 1.19                              | (1.19)              | -                                       | -                            |  |
|  | 2,336.48                          | (85.03)             | (7.77)                                  | 2,243.68                     |  |
| Deferred taxes, net  | (480.76)                          | 123.45              | 10.20                                   | (347.11)                     |  |

|   | Consolidated financial statements |                     |   |                      |  |                                 |  |
|---|-----------------------------------|---------------------|---|----------------------|--|---------------------------------|--|
|   |                                   |                     |   |                      | Unit                                   | Million Baht                    |  |
|   | As at<br>1 January<br>2019        | Statement of income | Statement of<br>comprehensive<br>income | Business acquisition | Currency<br>translation<br>differences | As at<br>31<br>December<br>2019 |  |
| Deferred tax assets                                       |                                   |                     |   |                      |  |                                 |  |
| Decommissioning costs<br>Provision for employee           | 26,879.51                         | 2,307.40            | -                                       | 3,448.69             | (1,992.84)                             | 30,642.76                       |  |
| benefits<br>Property, plant and equipment                 | 2,410.99                          | 524.03              | 363.22                                  | -                    | (182.50)                               | 3,115.74                        |  |
| and intangible assets                                     | 253.03                            | (0.79)              | -                                       | -                    | (17.83)                                | 234.41                          |  |
| Loss carried forward                                      | 8,591.82                          | 861.66              | 91.19                                   | 15.34                | (581.05)                               | 8,978.96                        |  |
| Financial derivative<br>Allowance for impairment loss     | 0.76                              | 16.21               | -                                       | -                    | (0.50)                                 | 16.47                           |  |
| on assets   | 3,723.36                          | 294.51              | -                                       | -                    | (235.57)                               | 3,782.30                        |  |
| Others  | 4,639.98                          | (562.56)            | 10.06                                   | 2,290.63             | (314.81)                               | 6,063.30                        |  |
| Tax effect of currency translation                        | 46,499.45                         | 3,440.46            | 464.47                                  | 5,754.66             | (3,325.10)                             | 52,833.94                       |  |
| on tax base   | 2,511.42                          | 839.33              | -                                       | -                    | (227.24)                               | 3,123.51                        |  |
|   | 49,010.87                         | 4,279.79            | 464.47                                  | 5,754.66             | (3,552.34)                             | 55,957.45                       |  |
| Deferred tax liabilities<br>Property, plant and equipment |                                   |                     |   |                      |  |                                 |  |
| and intangible assets                                     | 59,068.01                         | (8,651.19)          | -                                       | 23,254.35            | (4,085.47)                             | 69,585.70                       |  |
| Financial derivative                                      | 117.89                            | 233.40              | 94.24                                   | -                    | (12.14)                                | 433.39                          |  |
| Others  | 158.89                            | (126.89)            | (6.14)                                  | 375.38               | (1.95)                                 | 399.29                          |  |
| Tax effect of currency translation                        | 59,344.79                         | (8,544.68)          | 88.10                                   | 23,629.73            | (4,099.56)                             | 70,418.38                       |  |
| on tax base   | 28.46                             | 9.77                | -                                       | -                    | (2.34)                                 | 35.89                           |  |
|   | 59,373.25                         | (8,534.91)          | 88.10                                   | 23,629.73            | (4,101.90)                             | 70,454.27                       |  |
| Deferred taxes, net                                       | (10,362.38)                       | 12,814.70           | 376.37                                  | (17,875.07)          | 549.56                                 | (14,496.82)                     |  |



|   | Consolidated financial statements |                     |   |  |                              |  |
|---|-----------------------------------|---------------------|---|--|------------------------------|--|
|   |                                   |                     |   | Un                                     | it: Million Baht             |  |
|   | As at<br>1 January<br>2020        | Statement of income | Statement of<br>comprehensive<br>income | Currency<br>translation<br>differences | As at<br>31 December<br>2020 |  |
| Deferred tax assets   |                                   |                     |   |  |                              |  |
| Decommissioning costs   | 30,642.76                         | 2,985.92            | -                                       | (228.91)                               | 33,399.77                    |  |
| Provision for employee benefits                               | 3,115.74                          | 243.39              | -                                       | (24.13)                                | 3,335.00                     |  |
| Property, plant and equipment<br>and intangible assets        | 234.41                            | (57.80)             | -                                       | (4.10)                                 | 172.51                       |  |
| Loss carried forward  | 8,978.96                          | 373.62              | 67.08                                   | 57.43                                  | 9,477.09                     |  |
| Financial derivatives<br>Allowance for impairment loss        | 16.47                             | 38.21               | -                                       | (1.13)                                 | 53.55                        |  |
| on assets   | 3,782.30                          | 270.76              | -                                       | 7.24                                   | 4,060.30                     |  |
| Lease liabilities   | -                                 | 158.67              | -                                       | (12.18)                                | 146.49                       |  |
| Others  | 6,063.30                          | (12.02)             | -                                       | 25.98                                  | 6,077.26                     |  |
| Tax effect of currency translation                            | 52,833.94                         | 4,000.75            | 67.08                                   | (179.80)                               | 56,721.97                    |  |
| on tax base   | 3,123.51                          | (2,949.85)          | -                                       | 71.78                                  | 245.44                       |  |
|   | 55,957.45                         | 1,050.90            | 67.08                                   | (108.02)                               | 56,967.41                    |  |
| Deferred tax liabilities<br>Property, plant and equipment and |                                   |                     |   |  |                              |  |
| intangible assets   | 69,585.70                         | (2,876.39)          | -                                       | 38.42                                  | 66,747.73                    |  |
| Financial derivatives   | 433.39                            | (47.71)             | (246.77)                                | 15.40                                  | 154.31                       |  |
| Others  | 399.29                            | 97.46               | (0.81)                                  | (4.39)                                 | 491.55                       |  |
|   | 70,418.38                         | (2,826.64)          | (247.58)                                | 49.43                                  | 67,393.59                    |  |
| Tax effect of currency translation                            | 05.00                             |                     |   | 1.40                                   |                              |  |
| on tax base   | 35.89                             | (37.08)             | -                                       | 1.19                                   | -                            |  |
|   | 70,454.27                         | (2,863.72)          | (247.58)                                | 50.62                                  | 67,393.59                    |  |
| Deferred taxes, net   | (14,496.82)                       | 3,914.62            | 314.66                                  | (158.64)                               | (10,426.18)                  |  |

|  | Separate financial statements |                     |   |                              |  |
|--|-------------------------------|---------------------|---|------------------------------|--|
|  |                               |                     | Unit: I                                 | Million US Dollar            |  |
|  | As at<br>1 January<br>2019    | Statement of income | Statement of<br>comprehensive<br>income | As at<br>31 December<br>2019 |  |
| Deferred tax assets  |                               |                     |   |                              |  |
| Decommissioning costs  | 642.63                        | 39.30               | -                                       | 681.93                       |  |
| Provision for employee benefits  | 69.04                         | 17.75               | 12.06                                   | 98.85                        |  |
| Loss carried forward   | 182.47                        | 83.25               | 2.94                                    | 268.66                       |  |
| Others   | 93.77                         | (10.55)             | -                                       | 83.22                        |  |
|  | 987.91                        | 129.75              | 15.00                                   | 1,132.66                     |  |
| Tax effect of currency translation on tax base                                     | 63.32                         | (20.94)             | -                                       | 42.38                        |  |
|  | 1,051.23                      | 108.81              | 15.00                                   | 1,175.04                     |  |
| Deferred tax liabilities<br>Property, plant and equipment and intangible<br>assets | 732.00                        | (207.36)            | _                                       | 524.64                       |  |
| Others   | 3.77                          | 4.20                | 2.61                                    | 10.58                        |  |
|  | 735.77                        | (203.16)            | 2.61                                    | 535.22                       |  |
| Tax effect of currency translation on tax base                                     | -                             | -                   | -                                       | -                            |  |
|  | 735.77                        | (203.16)            | 2.61                                    | 535.22                       |  |
| Deferred taxes, net  | 315.46                        | 311.97              | 12.39                                   | 639.82                       |  |

|  |                            |                     | Separate fina                           | incial statements            |
|--|----------------------------|---------------------|---|------------------------------|
|  |                            |                     | Unit:                                   | Million US Dollar            |
|  | As at<br>1 January<br>2020 | Statement of income | Statement of<br>comprehensive<br>income | As at<br>31 December<br>2020 |
| Deferred tax assets  |                            |                     |   |                              |
| Decommissioning costs  | 681.93                     | 50.23               | -                                       | 732.16                       |
| Provision for employee benefits  | 98.85                      | 5.66                | -                                       | 104.51                       |
| Loss carried forward   | 268.66                     | (59.93)             | 2.02                                    | 210.75                       |
| Others   | 83.22                      | (20.90)             | -                                       | 62.32                        |
|  | 1,132.66                   | (24.94)             | 2.02                                    | 1,109.74                     |
| Tax effect of currency translation on tax base                                     | 42.38                      | (42.38)             | -                                       | -                            |
|  | 1,175.04                   | (67.32)             | 2.02                                    | 1,109.74                     |
| Deferred tax liabilities<br>Property, plant and equipment and intangible<br>assets | 524.64                     | (187.06)            | -                                       | 337.58                       |
| Lease liabilities  | -                          | 0.14                | -                                       | 0.14                         |
| Others   | 10.58                      | (1.93)              | (6.41)                                  | 2.24                         |
|  | 535.22                     | (188.85)            | (6.41)                                  | 339.96                       |
| Tax effect of currency translation on tax base                                     | -                          | -                   | -                                       | -                            |
|  | 535.22                     | (188.85)            | (6.41)                                  | 339.96                       |
| Deferred taxes, net  | 639.82                     | 121.53              | 8.43                                    | 769.78                       |

|  |                            |                     |   | Separate finan                         | cial statements              |
|--|----------------------------|---------------------|---|--|------------------------------|
|  |                            |                     |   | Ur                                     | it: Million Baht             |
|  | As at<br>1 January<br>2019 | Statement of income | Statement of<br>comprehensive<br>income | Currency<br>translation<br>differences | As at<br>31 December<br>2019 |
| Deferred tax assets  |                            |                     |   |  |                              |
| Decommissioning costs  | 20,852.87                  | 1,219.25            | -                                       | (1,509.45)                             | 20,562.67                    |
| Provision for employee benefits  | 2,240.19                   | 550.58              | 374.06                                  | (184.36)                               | 2,980.47                     |
| Loss carried forward   | 5,921.25                   | 2,582.65            | 91.19                                   | (493.71)                               | 8,101.38                     |
| Others   | 3,043.28                   | (327.16)            | 0.03                                    | (206.16)                               | 2,509.99                     |
|  | 32,057.59                  | 4,025.32            | 465.28                                  | (2,393.68)                             | 34,154.51                    |
| Tax effect of currency translation<br>on tax base                                  | 2,054.83                   | (630.24)            | _                                       | (146.66)                               | 1,277.93                     |
|  | 34,112.42                  | 3,395.08            | 465.28                                  | (2,540.34)                             | 35,432.44                    |
| Deferred tax liabilities<br>Property, plant and equipment and<br>intangible assets | 23,753.52                  | (6,432.65)          |   | (1,500.67)                             | 15,820.20                    |
| Others   | 122.15                     | (0,432.03)          | 80.99                                   | (1,500.07)                             | 319.19                       |
| Others   |                            |                     | 80.99                                   | ( )                                    |                              |
| Tax effect of currency translation<br>on tax base                                  | 23,875.67                  | (6,302.04)<br>-     | - 80.99                                 | (1,515.23)<br>-                        | 16,139.39<br>-               |
|  | 23,875.67                  | (6,302.04)          | 80.99                                   | (1,515.23)                             | 16,139.39                    |
| Deferred taxes, net  | 10,236.75                  | 9,697.12            | 384.29                                  | (1,025.11)                             | 19,293.05                    |

|   |                   |                        |                         | Separate finan             | cial statements     |
|---|-------------------|------------------------|-------------------------|----------------------------|---------------------|
|   |                   |                        |                         | Ur                         | it: Million Baht    |
|   | As at             |                        | Statement of            | Currency                   | As at               |
|   | 1 January<br>2020 | Statement of<br>income | comprehensive<br>income | translation<br>differences | 31 December<br>2020 |
| Deferred tax assets                               | 2020              | income                 | income                  | unerences                  | 2020                |
|   | 00 500 07         | 4 507 00               |                         | (450.00)                   |                     |
| Decommissioning costs                             | 20,562.67         | 1,587.98               | -                       | (159.02)                   | 21,991.63           |
| Provision for employee benefits                   | 2,980.47          | 179.05                 | -                       | (20.49)                    | 3,139.03            |
| Loss carried forward                              | 8,101.38          | (1,894.62)             | 62.60                   | 61.40                      | 6,330.76            |
| Others  | 2,509.99          | (660.79)               | -                       | 23.26                      | 1,872.46            |
|   | 34,154.51         | (788.38)               | 62.60                   | (94.85)                    | 33,333.88           |
| Tax effect of currency translation                |                   |                        |                         |                            |                     |
| on tax base                                       | 1,277.93          | (1,315.46)             | -                       | 37.53                      | -                   |
|   | 35,432.44         | (2,103.84)             | 62.60                   | (57.32)                    | 33,333.88           |
| Deferred tax liabilities                          |                   |                        |                         |                            |                     |
| Property, plant and equipment and                 |                   |                        |                         |                            |                     |
| intangible assets                                 | 15,820.20         | (5,914.05)             | -                       | 233.92                     | 10,140.07           |
| Lease liabilities                                 | -                 | 4.28                   | -                       | (0.21)                     | 4.07                |
| Others  | 319.19            | (60.59)                | (204.15)                | 13.39                      | 67.84               |
|   | 16,139.39         | (5,970.36)             | (204.15)                | 247.10                     | 10,211.98           |
| Tax effect of currency translation<br>on tax base | -                 | -                      | -                       | -                          | -                   |
|   | 16,139.39         | (5,970.36)             | (204.15)                | 247.10                     | 10,211.98           |
| Deferred taxes, net                               | 19,293.05         | 3,866.52               | 266.75                  | (304.42)                   | 23,121.90           |

Deferred income tax assets are recognised for tax loss and carried forwards only to the extent that realisation of the related tax benefit through the future taxable profits is probable. The Group does not recognise deferred tax asset from tax losses of US Dollar 2,929 million (2019: US Dollar 2,882 million) to carry forward against future taxable income. Some portions of tax losses could be carried forward against future taxable income without expiration invalid and some portions will be expired during 2021 to 2038.

# 26 Other non-current assets

|                                       |                     | Con                 | solidated financ    | ial statements      |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|
|                                       | Unit: Mi            | llion US Dollar     | Uni                 | it: Million Baht    |
|                                       | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |
|                                       |                     |                     |                     |                     |
| Land usage fee                        | 21.36               | 22.86               | 641.66              | 689.39              |
| Advance payment and accrued interest  | 68.44               | 36.10               | 2,055.69            | 1,088.49            |
| Pension scheme investments from joint |                     |                     |                     |                     |
| operation                             | 54.88               | 44.88               | 1,648.43            | 1,353.50            |
| Prepaid expenses                      | 10.71               | 17.87               | 321.84              | 538.89              |
| Deferred remuneration under agreement | 9.54                | 11.31               | 286.55              | 340.81              |
| Others                                | 64.04               | 38.30               | 1,923.51            | 1,154.78            |
|                                       | 228.97              | 171.32              | 6,877.68            | 5,165.86            |

|                                       |                     |                     | Separate financ     | ial statements      |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|
|                                       | Unit: Mi            | llion US Dollar     | Uni                 | it: Million Baht    |
|                                       | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |
|                                       |                     |                     |                     |                     |
| Deposits                              | 4.81                | 4.86                | 144.58              | 146.63              |
| Land usage fee                        | 5.34                | 5.71                | 160.41              | 172.35              |
| Prepaid expenses                      | 0.16                | -                   | 4.78                | -                   |
| Deferred remuneration under agreement | 9.54                | 11.31               | 286.55              | 340.81              |
| Others                                | 0.88                | 1.10                | 26.23               | 33.05               |
|                                       | 20.73               | 22.98               | 622.55              | 692.84              |

# 27 Trade and other payable

|                                   |                     | Cor                 | solidated financ    | cial statements     |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
|                                   | Unit: Mil           | lion US Dollar      | Un                  | it: Million Baht    |
|                                   | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |
|                                   |                     |                     |                     |                     |
| Trade payable                     | 121.04              | 101.53              | 3,635.60            | 3,061.53            |
| Working capital to co-ventures    | 21.78               | 12.44               | 654.09              | 375.12              |
| Account payable - related parties | 10.39               | 7.77                | 312.24              | 234.36              |
| Accrued expenses                  | 726.70              | 747.41              | 21,827.99           | 22,537.35           |
| Accrued interest expense          | 13.78               | 19.78               | 414.02              | 596.29              |
|                                   | 893.69              | 888.93              | 26,843.94           | 26,804.65           |



|                                   |                     |                     | Separate finan      | cial statements     |  |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|--|
|                                   | Unit: N             | lillion US Dollar   | Ur                  | Unit: Million Baht  |  |
|                                   | 31 December<br>2020 | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |  |
|                                   |                     |                     |                     |                     |  |
| Trade payable                     | 25.97               | 18.68               | 780.19              | 563.42              |  |
| Working capital to co-ventures    | -                   | 1.15                | -                   | 34.54               |  |
| Account payable - related parties | 6.50                | 4.79                | 195.13              | 144.43              |  |
| Accrued expenses                  | 266.02              | 285.82              | 7,990.61            | 8,618.75            |  |
| Accrued interest expense          | 2.66                | 3.07                | 79.87               | 92.40               |  |
|                                   | 301.15              | 313.51              | 9,045.80            | 9,453.54            |  |

# 28 Loans, debentures and lease liabilities

Loans, debentures and lease liabilities comprised:

|   | Consolidated financial statements |                     |                     |                     |  |
|---|-----------------------------------|---------------------|---------------------|---------------------|--|
|   | Unit: M                           | illion US Dollar    | Unit: Million I     |                     |  |
|   | 31 December<br>2020               | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |  |
| Current portion<br>Current portion of lease liabilities due |                                   |                     |                     |                     |  |
| within one year   | 135.48                            | 18.28               | 4,069.28            | 551.26              |  |
|   | 135.48                            | 18.28               | 4,069.28            | 551.26              |  |
| Non-current portion   |                                   |                     |                     |                     |  |
| Debentures  | 2,830.37                          | 2,704.75            | 85,016.15           | 81,558.91           |  |
| Long-term loans   | 594.66                            | 593.26              | 17,861.83           | 17,889.20           |  |
| Lease liabilities   | 371.55                            | 125.41              | 11,160.34           | 3,781.71            |  |
|   | 3,796.58                          | 3,423.42            | 114,038.32          | 103,229.82          |  |
| Total loans, debentures and lease liaibilities              | 3,932.06                          | 3,441.70            | 118,107.60          | 103,781.08          |  |

|   | Separate financial statements |                     |                     |                     |  |
|---|-------------------------------|---------------------|---------------------|---------------------|--|
|   | Unit: M                       | illion US Dollar    | Ur                  | nit: Million Baht   |  |
|   | 31 December<br>2020           | 31 December<br>2019 | 31 December<br>2020 | 31 December<br>2019 |  |
| Current portion<br>Current portion of lease liabilities due |                               |                     |                     |                     |  |
| within one year   | 25.62                         | 0.30                | 769.46              | 9.00                |  |
|   | 25.62                         | 0.30                | 769.46              | 9.00                |  |
| Non-current portion   |                               |                     |                     |                     |  |
| Debentures  | 379.26                        | 377.76              | 11,391.98           | 11,391.04           |  |
| Lease liabilities   | 31.23                         | 0.76                | 937.92              | 22.98               |  |
|   | 410.49                        | 378.52              | 12,329.90           | 11,414.02           |  |
| Total loans, debentures and lease liaibilities              | 436.11                        | 378.82              | 13,099.36           | 11,423.02           |  |

| S        |
|----------|
| Ð        |
| 5        |
|          |
| 7        |
| 2        |
| ×        |
| 3        |
| č.       |
|          |
|          |
| _        |
| <u>م</u> |
|          |

The carrying value of unsecured and unsubordinated debentures comprised:

|  |                                 |  |                 |                     |                         | Consolidated fi     | <b>Consolidated financial statements</b> |
|--|---------------------------------|--|-----------------|---------------------|-------------------------|---------------------|--|
|  |                                 |  |                 | Unit: N             | Unit: Million US Dollar |                     | <b>Unit: Million Baht</b>                |
|  | Interest rates<br>(% per annum) | Effective<br>interest rates<br>(% per annum) | Maturity date   | 31 December<br>2020 | 31 December<br>2019     | 31 December<br>2020 | 31 December<br>2019                      |
| Maturity date within 1 year<br>- Debentures US Dollar 700 million                          | 5.692                           | 5.815  | 5 April 2021    |                     | 699.73                  | ı                   | 21,099.71                                |
| Maturity date over 1 year<br>but not exceeding 3 years<br>- Debentures Baht 15,000 million | 2.26                            | 2.314  | 19 June 2022    | 499.09              | 496.95                  | 14,991.05           | 14,984.94                                |
| Maturity date over 5 years   |                                 |  |                 |                     |                         |                     |  |
| - Debentures Baht 11,400 million   | 4.82                            | 4.89   | 6 June 2029     | 379.26              | 377.76                  | 11,391.98           | 11,391.04                                |
| - Debentures US Dollar 500 million   | 2.587                           | 2.637  | 10 June 2027    | 498.32              |                         | 14,968.11           |  |
| - Debentures US Dollar 350 million   | 2.993                           | 3.063  | 15 January 2030 | 318.77              |                         | 9,574.85            |  |
| - Debentures US Dollar 490 million   | 6.35                            | 6.507  | 12 June 2042    | 487.47              | 487.36                  | 14,642.22           | 14,695.76                                |
| - Debentures US Dollar 650 million   | 3.903                           | 3.958  | 6 December 2059 | 647.46              | 642.95                  | 19,447.94           | 19,387.46                                |
| Total carrying value   |                                 |  |                 | 2,830.37            | 2,704.75                | 85,016.15           | 81,558.91                                |

|                                  |                                |   |               | Unit: N             | Unit: Million US Dollar | Separate fina       | Separate financial statements<br>Unit: Million Baht |
|----------------------------------|--------------------------------|---|---------------|---------------------|-------------------------|---------------------|---|
|                                  | Interest rate<br>(% per annum) | Effective<br>interest rate<br>(% per annum) | Maturity date | 31 December<br>2020 | 31 December<br>2019     | 31 December<br>2020 | 31 December<br>2019                                 |
| Maturity date over 5 years       |                                |   |               |                     |                         |                     |   |
| - Debentures Baht 11,400 million | 4.82                           | 4.89  | 6 June 2029   | 379.26              | 377.76                  | 11,391.98           | 11,391.04   |
| Total carrving value             |                                |   |               | 379.26              | 377.76                  | 11,391.98           | 11,391.04   |

The fair values of debentures as at 31 December 2020 and 2019 are disclosed in Note 12.2.3.

|                                       |            | Conso                        | olidated financia | I statements    |  |
|---------------------------------------|------------|------------------------------|-------------------|-----------------|--|
|                                       | Unit: Mill | Unit: Million US Dollar Unit |                   | t: Million Baht |  |
|                                       | 2020       | 2019                         | 2020              | 2019            |  |
|                                       |            |                              |                   |                 |  |
| Opening net book value                | 2,704.75   | 1,944.52                     | 81,558.91         | 63,099.15       |  |
| Cash flows:                           |            |                              |                   |                 |  |
| Increase                              | 850.00     | 1,130.05                     | 26,584.35         | 35,070.94       |  |
| Repayment of debentures               | (700.00)   | (418.20)                     | (21,892.99)       | (12,978.80)     |  |
| Deferred finance cost                 | (31.08)    | (7.32)                       | (972.15)          | (212.68)        |  |
| Non-cash movement:                    |            |                              |                   |                 |  |
| Amortisation of deferred finance cost | 3.30       | 0.09                         | 103.47            | 2.76            |  |
| Foreign exchange differences          | 3.40       | 55.61                        | 106.44            | 1,725.96        |  |
| Currency translation differences      | -          | -                            | (471.88)          | (5,148.42)      |  |
| Closing net book value                | 2,830.37   | 2,704.75                     | 85,016.15         | 81,558.91       |  |

#### The movements of debentures for the year ended 31 December are as follows:

|                                       | Separate financial statements |          |           |                |
|---------------------------------------|-------------------------------|----------|-----------|----------------|
|                                       | Unit: Million US Dollar       |          | Unit      | : Million Baht |
|                                       | 2020                          | 2019     | 2020      | 2019           |
|                                       |                               |          |           |                |
| Opening net book value                | 377.76                        | 757.76   | 11,391.04 | 24,588.98      |
| Cash flows:                           |                               |          |           |                |
| Repayment of debentures               | -                             | (418.20) | -         | (12,978.80)    |
| Non-cash movement:                    |                               |          |           |                |
| Amortisation of deferred finance cost | 0.03                          | 0.002    | 1.01      | 0.76           |
| Foreign exchange differences          | 1.47                          | 38.20    | 45.96     | 1,185.68       |
| Currency translation differences      | -                             | -        | (46.03)   | (1,405.58)     |
| Closing net book value                | 379.26                        | 377.76   | 11,391.98 | 11,391.04      |

#### Repurchase and issuance of debentures

The details of movements of debentures during the year ended 31 December 2020 are as follows:

On 15 January 2020, the Group refinanced its debentures by which the existing debentures with the nominal value of US Dollar 220 million were exchanged for the new debentures with the nominal value of US Dollar 153.18 million (The present value discounted using effective interest rate of existing debentures is in the amount of US Dollar 120.69 million.) and the cash amount of US Dollar 66.90 million paid to the existing debenture holders. The Group recognised modification gain net of refinancing costs in the amount of US Dollar 22.31 million (Baht 679.96 million). On accounting basis, this refinancing of debentures is considered as an exchange between an existing debenture holders and the Group, since the newly issue debentures are issued to existing debenture holders, for which the term were not substantially different as the discounted cash flow value of new debentures varies from discounted cash flow value of previously issued debentures is less than 10%.



- PTTEP Canada International Finance Limited (PTTEP CIF) has repurchased the unsecured and unsubordinated capital debentures before its original redemption date in the amount of US Dollar 700 million in accordance with the terms and conditions of the debentures. These debentures will be redeemable in April 2021. The details are as follows:
  - On 15 January 2020, PTTEP CIF has repurchased the debentures in the amount of US Dollar 220 million, which were considered as refinancing of the Group's debentures as disclosed above.
  - On 25 February 2020, PTTEP CIF has repurchased the remaining debentures in the amount of US Dollar 480 million. The Group recognised the loss from this repurchase in the amount of US Dollar 20.34 million (Baht 637.35 million).
- On 15 January 2020, PTTEP Treasury Center Company Limited (PTTEP TC) has issued and offered the 10-year unsecured and unsubordinated debentures in the amount of US Dollar 350 million with a fixed interest rate of 2.99% per annum, guaranteed by the Company. Some of the debentures was from refinancing of the Group's debentures as disclosed above.
- On 10 June 2020, PTTEP TC has issued and offered the 7-year unsecured and unsubordinated debentures in the amount of US Dollar 500 million with a fixed interest rate of 2.59% per annum, guaranteed by the Company.

#### b) Long-term loans

The movements of long-term loans for the year ended 31 December are as follows:

|                                       | Consolidated financial statements |              |                   |           |
|---------------------------------------|-----------------------------------|--------------|-------------------|-----------|
|                                       | Unit: Millio                      | on US Dollar | Unit: Million Bah |           |
|                                       | 2020                              | 2019         | 2020              | 2019      |
|                                       |                                   |              |                   |           |
| Opening net book value                | 593.26                            | -            | 17,889.20         | -         |
| Cash flows:                           |                                   |              |                   |           |
| Increase                              | -                                 | 600.00       | -                 | 18,620.99 |
| Non-cash movement:                    |                                   |              |                   |           |
| Amortisation of deferred finance cost | 1.40                              | (6.74)       | 43.73             | (203.20)  |
| Currency translation differences      | -                                 | -            | (71.10)           | (528.59)  |
| Closing net book value                | 594.66                            | 593.26       | 17,861.83         | 17,889.20 |



| Long-term loans from financial institutions comprised:         | ons comprised:                     |  |                                    |                     |                         |                       |                                   |
|--|------------------------------------|--|------------------------------------|---------------------|-------------------------|-----------------------|-----------------------------------|
|  |                                    |  |                                    |                     |                         | Consolidated fi       | Consolidated financial statements |
|  |                                    |  |                                    | Unit:               | Unit: Million US Dollar |                       | Unit: Million Baht                |
|  | Interest rates<br>(% per annum)    | Effective interest<br>rates (% per<br>annum) | Maturity date                      | 31 December<br>2020 | 31 December<br>2019     | 31 December<br>2020   | 31 December<br>2019               |
| Maturity date over 3 years but not<br>exceeding 5 years        |                                    |  |                                    |                     |                         |                       |                                   |
| - Loans US Dollar 480 million<br>- Loans US Dollar 120 million | 6M LIBOR + 0.85<br>6M LIBOR + 0.95 | 1.641<br>1.638                               | 20 October 2024<br>20 October 2024 | 475.36<br>119.30    | 474.15<br>119.11        | 14,278.47<br>3,583.36 | 14,297.44<br>3,591.76             |
| Total carrying value   |                                    |  |                                    | 594.66              | 593.26                  | 17,861.83             | 17,889.20                         |

2

(zero cost collar) in the amount of US Dollar 300 million, which represents 50% of total loans. The interest rate collar comprise of put option with interest rate cap at 2.42% per annum and call option with interest rate cap at 2.42% per annum. On 23 March 2020, the Group entered into an agreement for a reference rate hedging (6M LIBOR) for long-term loans from financial institutions by entering into interest rate collar

The fair values of long-term loans are close to their carrying amounts, as disclosed in Note 12.2.3.

# c) Lease liabilities

The movements of lease liabilities for the year ended 31 December are as follows:

|                                  | Consolidated financial statements |                         |            |                 |
|----------------------------------|-----------------------------------|-------------------------|------------|-----------------|
|                                  | Unit: Mil                         | Unit: Million US Dollar |            | t: Million Baht |
|                                  | 2020                              | 2019                    | 2020       | 2019            |
|                                  |                                   |                         |            |                 |
| Opening net book value           | 143.69                            | 1.25                    | 4,332.97   | 40.65           |
| Cash flows:                      |                                   |                         |            |                 |
| Repayment of lease liabilities   | (115.49)                          | (12.93)                 | (3,611.90) | (401.48)        |
| Non-cash movements:              |                                   |                         |            |                 |
| Impact of adoption of TFRS 16    | 361.77                            | -                       | 10,908.76  | -               |
| Deferred finance cost            | 18.98                             | 5.15                    | 593.46     | 160.03          |
| Business acquisition             | -                                 | 150.14                  | -          | 4,631.07        |
| Additions of lease liabilities   | 97.46                             | -                       | 3,048.25   | -               |
| Decrease of lease liabilities    | (0.76)                            | -                       | (23.75)    | -               |
| Agreement modification           | 1.40                              | -                       | 43.69      | -               |
| Foreign exchange differences     | (0.02)                            | 0.08                    | (0.83)     | 2.59            |
| Currency translation differences | -                                 | -                       | (61.03)    | (99.89)         |
| Closing net book value           | 507.03                            | 143.69                  | 15,229.62  | 4,332.97        |

|                                  | Separate financial statements |                |          |                 |  |
|----------------------------------|-------------------------------|----------------|----------|-----------------|--|
|                                  | Unit: Mil                     | lion US Dollar | Unit     | t: Million Baht |  |
|                                  | 2020                          | 2019           | 2020     | 2019            |  |
|                                  |                               |                |          |                 |  |
| Opening net book value           | 1.06                          | 1.25           | 31.98    | 40.65           |  |
| Cash flows:                      |                               |                |          |                 |  |
| Repayment of lease liabilities   | (23.61)                       | (0.31)         | (738.50) | (9.63)          |  |
| Non-cash movements:              |                               |                |          |                 |  |
| Impact of adoption of TFRS 16    | 30.02                         | -              | 905.08   | -               |  |
| Deferred finance cost            | 1.28                          | 0.04           | 40.02    | 1.49            |  |
| Additions of lease liabilities   | 48.26                         | -              | 1,509.29 | -               |  |
| Agreement modification           | (0.26)                        | -              | (8.26)   | -               |  |
| Foreign exchange differences     | 0.10                          | 0.08           | 3.32     | 2.37            |  |
| Currency translation differences | -                             | -              | (35.55)  | (2.90)          |  |
| Closing net book value           | 56.85                         | 1.06           | 1,707.38 | 31.98           |  |



Related leases transaction recognised in the statement of income for the year ended 31 December 2020 are as follows:

|   |                            | Consolidated<br>al statements | Separate<br>financial statements |                       |  |
|---|----------------------------|-------------------------------|----------------------------------|-----------------------|--|
|   | Unit: Million<br>US Dollar | Unit: Million<br>Baht         | Unit: Million<br>US Dollar       | Unit: Million<br>Baht |  |
| Expenses related to short-term lease<br>Expenses related to low-value assets lease<br>Expenses related to variable lease<br>payment, which does not include | 11.40<br>3.88              | 357.04<br>121.37              | 2.90<br>3.39                     | 87.00<br>78.89        |  |
| in lease liabilities  | 0.12                       | 3.63                          | 0.09                             | 1.95                  |  |

#### 29 Provision for Decommissioning Costs

Provision for decommissioning costs are as follows:

|                                      | Consolidated financial statements |                 |                    |                  |
|--------------------------------------|-----------------------------------|-----------------|--------------------|------------------|
|                                      | Unit: Mi                          | llion US Dollar | Unit: Million Baht |                  |
|                                      | 31 December                       | 31 December     | 31 December        | 31 December      |
|                                      | 2020                              | 2019            | 2020               | 2019             |
|                                      |                                   |                 |                    |                  |
| Provision for decommissioning costs  | 3,203.01                          | 3,010.27        | 96,208.90          | 90,771.73        |
| Less Current portion                 | (62.63)                           | (42.76)         | (1,880.96)         | (1,289.38)       |
| Non-current portion of provision for |                                   |                 |                    |                  |
| decommissioning costs                | 3,140.38                          | 2,967.51        | 94,327.94          | 89,482.35        |
|                                      |                                   |                 |                    |                  |
|                                      |                                   |                 | Separate finance   | cial statements  |
|                                      | Unit: Mi                          | Ilion US Dollar | Un                 | it: Million Baht |
|                                      | 31 December                       | 31 December     | 31 December        | 31 December      |
|                                      | 2020                              | 2019            | 2020               | 2019             |
|                                      |                                   |                 |                    |                  |
| Provision for decommissioning costs  | 1,713.48                          | 1,584.35        | 51,467.85          | 47,774.55        |
| Less Current portion                 | (49.67)                           | (12.73)         | (1,491.88)         | (383.87)         |
| Non-current portion of provision for |                                   |                 |                    |                  |
| decommissioning costs                | 1,663.81                          | 1,571.62        | 49,975.97          | 47,390.68        |

The movement of provision for decommissioning costs during the year are as follows:

|                                  | Consolidated financial statements |                         |            |                     |  |
|----------------------------------|-----------------------------------|-------------------------|------------|---------------------|--|
|                                  | Unit: Mi                          | Unit: Million US Dollar |            | <b>Million Baht</b> |  |
|                                  | 2020                              | 2019                    | 2020       | 2019                |  |
|                                  |                                   |                         |            |                     |  |
| Balance as at 1 January          | 3,010.27                          | 2,277.25                | 90,771.73  | 73,896.52           |  |
| Business acquisition             | -                                 | 331.25                  | -          | 10,174.83           |  |
| Additional provision             | 191.53                            | 327.44                  | 5,990.15   | 10,162.12           |  |
| Provision used during the year   | (24.10)                           | (14.63)                 | (753.62)   | (454.27)            |  |
| Finance costs                    | 95.01                             | 102.82                  | 2,972.51   | 3,192.27            |  |
| Reversal of provision            | (69.36)                           | (13.86)                 | (2,169.22) | (430.25)            |  |
| Currency translation differences | (0.34)                            | -                       | (602.65)   | (5,769.49)          |  |
| Balance as at 31 December        | 3,203.01                          | 3,010.27                | 96,208.90  | 90,771.73           |  |

petroleum production

2,630.29

5,274.61

174.92

|                                  | Separate financial statements |               |                    |            |  |
|----------------------------------|-------------------------------|---------------|--------------------|------------|--|
|                                  | Unit: Mill                    | ion US Dollar | Unit: Million Baht |            |  |
|                                  | 2020                          | 2019          | 2020               | 2019       |  |
|                                  |                               |               |                    |            |  |
| Balance as at 1 January          | 1,584.35                      | 1,375.34      | 47,774.55          | 44,629.50  |  |
| Additional provision             | 92.14                         | 152.43        | 2,881.80           | 4,730.74   |  |
| Provision used during the year   | (10.97)                       | (1.24)        | (343.01)           | (38.54)    |  |
| Finance costs                    | 48.86                         | 57.82         | 1,529.03           | 1,795.23   |  |
| Reversal of provision            | (0.90)                        | -             | (28.36)            | -          |  |
| Currency translation differences | -                             | -             | (346.16)           | (3,342.38) |  |
| Balance as at 31 December        | 1,713.48                      | 1,584.35      | 51,467.85          | 47,774.55  |  |

The Group records a provision for decommissioning costs whenever it is probable that there would be an obligation as a result of a past event and the amount of that obligation is reliably estimated by the Group's engineers and management's judgment. The Group recognises provision for decommissioning costs as part of oil and gas properties, using the discounted present value before tax based on the estimated eventual costs that relate to the removal of the production facilities and amortised based on the unit of production of the proved reserve or the proved developed reserve. The Group recognises an increase that reflects the passage of time from the unwinding discount in each period, as a finance cost in the statements of income.

The provisions are based on the current situation such as regulations, technologies and prices. The actual results could differ from these estimates as future confirming events occur.

#### 30 Provision for Remuneration for the Renewal of Petroleum Production

Provision for remuneration for the renewal of petroleum production are as follows:

|   | Consolidated financial statements |                                       |                     |                     |
|---|-----------------------------------|---------------------------------------|---------------------|---------------------|
|   | Unit: Mi                          | illion US Dollar                      | Unit: Million Baht  |                     |
|   | 31 December<br>2020               | 31 December<br>2019                   | 31 December<br>2020 | 31 December<br>2019 |
| Provision for remuneration for the renewal<br>of petroleum production   | 190.84                            | 268.63                                | 5,732.26            | 8,100.25            |
| Less Current portion  | (87.60)                           | (77.87)                               | (2,631.13)          | (2,348.14)          |
| Non-current portion of provision for<br>remuneration for the renewal of |                                   |                                       |                     |                     |
| petroleum production  | 103.24                            | 190.76                                | 3,101.13            | 5,752.11            |
|   |                                   |                                       | Separate finance    | cial statements     |
|   | Unit: M                           | illion US Dollar                      | Un                  | it: Million Baht    |
|   | 31 December<br>2020               | 31 December<br>2019                   | 31 December<br>2020 | 31 December<br>2019 |
| Provision for remuneration for the renewal<br>of petroleum production   | 173.33                            | 250.32                                | 5,206.43            | 7,548.12            |
| Less Current portion  | (85.76)                           | (75.40)                               | (2,576.14)          | (2,273.51)          |
| Non-current portion of provision for<br>remuneration for the renewal of |                                   | , , , , , , , , , , , , , , , , , , , |                     |                     |

87.57

|                                   |          | Consolidated financial statements |            |                |  |  |
|-----------------------------------|----------|-----------------------------------|------------|----------------|--|--|
|                                   | Unit: Mi | Unit: Million US Dollar           |            | : Million Baht |  |  |
|                                   | 2020     | 2019                              | 2020       | 2019           |  |  |
|                                   |          |                                   |            |                |  |  |
| Balance as at 1 January           | 268.63   | 327.73                            | 8,100.25   | 10,634.84      |  |  |
| Additional provision              | 1.14     | 19.35                             | 35.59      | 600.65         |  |  |
| Remuneration paid during the year | (90.10)  | (90.75)                           | (2,817.87) | (2,816.69)     |  |  |
| Finance costs                     | 16.93    | 12.33                             | 521.35     | 382.74         |  |  |
| Reversal of provision             | (5.76)   | (0.03)                            | (180.24)   | (0.98)         |  |  |
| Currency translation differences  | -        | -                                 | 73.18      | (700.31)       |  |  |
| Balance as at 31 December         | 190.84   | 268.63                            | 5,732.26   | 8,100.25       |  |  |
| Currency translation differences  | -        | -                                 | 73.18      |                |  |  |

#### Movements of provision for remuneration for the renewal of petroleum production during the year are as follows:

|                                   | Separate financial statements |         |            |                |
|-----------------------------------|-------------------------------|---------|------------|----------------|
|                                   | Unit: Million US Dollar       |         | Unit       | : Million Baht |
|                                   | 2020                          | 2019    | 2020       | 2019           |
|                                   |                               |         |            |                |
| As at 1 January                   | 250.32                        | 327.39  | 7,548.12   | 10,623.78      |
| Additional provision              | 0.52                          | -       | 16.29      | -              |
| Remuneration paid during the year | (87.96)                       | (88.99) | (2,750.96) | (2,761.78)     |
| Finance costs                     | 14.57                         | 11.92   | 449.34     | 370.00         |
| Reversal of provision             | (4.12)                        | -       | (128.86)   | -              |
| Currency translation differences  | -                             | -       | 72.50      | (683.88)       |
| Balance as at 31 December         | 173.33                        | 250.32  | 5,206.43   | 7,548.12       |

The Group has entered into the Supplemental Petroleum Concession Agreement with the Ministry of Energy to extend the petroleum production period for another 10 years. As a result of this extension, the Group has to pay remuneration fee to the Ministry of Energy. The management has estimated the provision for remuneration using the discounted cash flows based on the duration of the new agreement and significant assumptions, such as sales volume data and oil price, etc.



# 31 Provision for employee benefits

Provision for employee benefits are as follows:

|   |                      | Consolidated financial statements |                 |                 |  |
|---|----------------------|-----------------------------------|-----------------|-----------------|--|
|   | Unit: Mi             | Ilion US Dollar                   | Uni             | t: Million Baht |  |
|   | 2020                 | 2019                              | 2020            | 2019            |  |
| Statements of financial position                    |                      |                                   |                 |                 |  |
| Retirement benefits                                 | 252.07               | 232.91                            | 7,571.36        | 7,022.96        |  |
| Other long-term benefits                            | 13.44                | 12.34                             | 403.78          | 372.24          |  |
| Liabilities in the statements of financial position | 265.51               | 245.25                            | 7,975.14        | 7,395.20        |  |
|   |                      |                                   |                 |                 |  |
| Statement of income                                 |                      |                                   |                 |                 |  |
| Retirement benefits                                 | 22.02                | 32.31                             | 688.73          | 1,016.30        |  |
| Other long-term benefits                            | 1.32                 | 2.94                              | 41.24           | 90.03           |  |
|   | 23.34                | 35.25                             | 729.97          | 1,106.33        |  |
|   |                      | S                                 | eparate financi | al statements   |  |
|   | Unit <sup>.</sup> Mi | Illion US Dollar                  |                 | t: Million Baht |  |
|   | 2020                 | 2019                              | 2020            | 2019            |  |
| Statements of financial position                    |                      |                                   |                 |                 |  |
| Retirement benefits                                 | 174.90               | 167.05                            | 5,253.44        | 5,037.13        |  |
| Other long-term benefits                            | 13.42                | 12.33                             | 403.27          | 371.76          |  |
| Liabilities in the statements of financial position | 188.32               | 179.38                            | 5,656.71        | 5,408.89        |  |
|   |                      |                                   |                 |                 |  |
| Statement of income                                 |                      |                                   |                 |                 |  |
| Retirement benefits                                 | 13.79                | 28.31                             | 431.33          | 890.38          |  |
| Other long-term benefits                            | 1.32                 | 2.94                              | 41.22           | 89.98           |  |
|   | 15.11                | 31.25                             | 472.55          | 980.36          |  |

The movements of provision for retirement benefits during the year are as follows:

|         | Conse  | olidated financi  | al statements   |
|---------|--|---|---|
| Unit: M | illion US Dollar   | Unit  | : Million Baht  |
| 2020    | 2019   | 2020  | 2019  |
|         |  |   |   |
| 232.91  | 126.34   | 7,022.96  | 4,099.80  |
| -       | 44.89  | -   | 1,354.08  |
| 15.31   | 9.36   | 478.81  | 290.71  |
| -       | 18.71  | -   | 593.83  |
| 6.71    | 4.24   | 209.92  | 131.76  |
| 254.93  | 203.54   | 7,711.69  | 6,470.18  |
|         |  |   |   |
| (1.43)  | 26.65  | (44.61)   | 805.49  |
| (7.67)  | (8.23)   | (239.85)  | (255.73)  |
| 6.24    | 10.95  | 195.29  | 340.13  |
| -       | -  | (51.16)   | (337.11)  |
| (2.86)  | 29.37  | (140.33)  | 552.78  |
| 252.07  | 232.91   | 7,571.36  | 7,022.96  |
|         | 2020<br>232.91<br>-<br>15.31<br>-<br>6.71<br>254.93<br>(1.43)<br>(7.67)<br>6.24<br>-<br>(2.86) | Unit: Million US Dollar           2020         2019           232.91         126.34           -         44.89           15.31         9.36           -         18.71           6.71         4.24           254.93         203.54           (1.43)         26.65           (7.67)         (8.23)           6.24         10.95           -         -           (2.86)         29.37 | 2020         2019         2020           232.91         126.34         7,022.96           -         44.89         -           15.31         9.36         478.81           -         18.71         -           6.71         4.24         209.92           254.93         203.54         7,711.69           (1.43)         26.65         (44.61)           (7.67)         (8.23)         (239.85)           6.24         10.95         195.29           -         -         (51.16)           (2.86)         29.37         (140.33) |

|                                  |         | S                | Separate financi | al statements  |
|----------------------------------|---------|------------------|------------------|----------------|
|                                  | Unit: M | illion US Dollar | Unit             | : Million Baht |
|                                  | 2020    | 2019             | 2020             | 2019           |
|                                  |         |                  |                  |                |
| As at 1 January                  | 167.05  | 112.59           | 5,037.13         | 3,653.72       |
| Current service cost             | 10.75   | 8.19             | 336.11           | 254.34         |
| Past service cost                | -       | 16.24            | -                | 515.57         |
| Interest expense                 | 3.04    | 3.88             | 95.22            | 120.47         |
|                                  | 180.84  | 140.90           | 5,468.46         | 4,544.10       |
|                                  |         |                  |                  |                |
|                                  |         |                  |                  |                |
| Loss from actuarial assumptions  | -       | 24.12            | -                | 728.86         |
| Benefits paid                    | (6.94)  | (7.71)           | (216.99)         | (239.47)       |
| Foreign exchange differences     | 1.00    | 9.74             | 31.23            | 302.49         |
| Currency translation differences | -       | -                | (29.26)          | (298.85)       |
|                                  | (5.94)  | 26.15            | (215.02)         | 493.03         |

# Expenses recognised in the statements of income for the years are as follows:

|                          |          | Conso           | lidated financ | ial statements  |
|--------------------------|----------|-----------------|----------------|-----------------|
|                          | Unit: Mi | Ilion US Dollar | Uni            | t: Million Baht |
|                          | 2020     | 2019            | 2020           | 2019            |
|                          |          |                 |                |                 |
| Current service cost     | 15.31    | 9.36            | 478.81         | 290.71          |
| Past service cost        | -        | 18.71           | -              | 593.83          |
| Interest expense         | 6.71     | 4.24            | 209.92         | 131.76          |
| Total                    | 22.02    | 32.31           | 688.73         | 1,016.30        |
| Other long-term benefits | 1.32     | 2.94            | 41.24          | 90.03           |
| Expenses recognised in   |          |                 |                |                 |
| statement of income      | 23.34    | 35.25           | 729.97         | 1,106.33        |

|                          |          | 9               | eparate financ | ial statements  |
|--------------------------|----------|-----------------|----------------|-----------------|
|                          | Unit: Mi | Ilion US Dollar | Uni            | t: Million Baht |
|                          | 2020     | 2019            | 2020           | 2019            |
|                          |          |                 |                |                 |
| Current service cost     | 10.75    | 8.19            | 336.11         | 254.34          |
| Past service cost        | -        | 16.24           | -              | 515.57          |
| Interest expense         | 3.04     | 3.88            | 95.22          | 120.47          |
| Total                    | 13.79    | 28.31           | 431.33         | 890.38          |
| Other long-term benefits | 1.32     | 2.94            | 41.22          | 89.98           |
| Expenses recognised in   |          |                 |                |                 |
| statement of income      | 15.11    | 31.25           | 472.55         | 980.36          |

(Gain) loss from actuarial assumptions recognised in the statements of comprehensive income are as follows:

|                                 |              | Conso        | lidated financial | statements   |
|---------------------------------|--------------|--------------|-------------------|--------------|
|                                 | Unit: Millio | on US Dollar | Unit:             | Million Baht |
|                                 | 2020         | 2019         | 2020              | 2019         |
|                                 |              |              |                   |              |
| Change in financial assumptions | -            | 26.65        | -                 | 805.49       |
| Experience adjustment           | (1.43)       | -            | (44.61)           | -            |
| Total                           | (1.43)       | 26.65        | (44.61)           | 805.49       |
|                                 | i            |              |                   |              |
|                                 |              | S            | eparate financial | statements   |
|                                 | Unit: Milli  | on US Dollar | Unit:             | Million Baht |

|                                 |      |       | 0    |        |
|---------------------------------|------|-------|------|--------|
|                                 | 2020 | 2019  | 2020 | 2019   |
|                                 |      |       |      |        |
| Change in financial assumptions | -    | 24.12 | -    | 728.86 |
| Total                           | -    | 24.12 | -    | 728.86 |

The significant actuarial assumptions used were as follows:

| % per annum |            |  |  |  |
|-------------|------------|--|--|--|
| 2020        | 2019       |  |  |  |
| 1.9 - 7.15  | 1.9 - 7.15 |  |  |  |
| 2.0 - 2.5   | 2.0 - 2.5  |  |  |  |
| 0.0 - 14.0  | 0.0 - 14.0 |  |  |  |

Discount rate Inflation rate Turnover rate



|               | Increase (Decre | ease) in impact on defi | ned retirement bene | fit obligation     |
|---------------|-----------------|-------------------------|---------------------|--------------------|
|               |                 | Unit: Million US Dollar |                     | Unit: Million Baht |
|               | 2020            | 2019                    | 2020                | 2019               |
| Discount rate |                 |                         |                     |                    |
| Increase 1%   | (22.55)         | (21.12)                 | (677.31)            | (636.87)           |
| Decrease 1%   | 27.25           | 25.51                   | 818.64              | 769.08             |

#### Sensitivity analysis for each significant assumption used is as follows:

The above sensitivity analysis is based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions, the same method has been applied as when calculating the retirement benefits recognised in the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the previous year.

As at 31 December 2020, the weighted average duration of the defined retirement benefit obligation is 20 years (2019: 20 years).

Maturity analysis of undiscounted retirement benefits are as follows:

|                        | Consolidated fin | ancial statements  | Separate fin     | ancial statements  |
|------------------------|------------------|--------------------|------------------|--------------------|
|                        | Unit: Million US |                    | Unit: Million US |                    |
|                        | Dollar           | Unit: Million Baht | Dollar           | Unit: Million Baht |
| As at 31 December 2020 |                  |                    |                  |                    |
| Not later than 1 year  | 6.61             | 198.41             | 6.22             | 186.80             |
| Over 1 to 5 years      | 49.16            | 1,476.53           | 46.09            | 1,384.28           |
| Over 5 to 10 years     | 79.71            | 2,394.14           | 73.47            | 2,206.70           |
| Over than 10 years     | 304.49           | 9,146.08           | 273.95           | 8,228.52           |
|                        | 439.97           | 13,215.16          | 399.73           | 12,006.30          |

#### 32 Share capital

The total number of authorised ordinary shares is 3,969.98 million shares (2019: 3,969.98 million shares) with a par value of Baht 1 each (2019: a par value of Baht 1 each). All authorised ordinary shares are fully paid.

#### 33 Legal reserve

Under the Public Companies Act., B.E. 2535, the Company is required to set aside as a legal reserve at least 5% of its net profit for the year until the reserve is not less than 10% of the authorised ordinary shares capital. The legal reserve is not available for dividend distribution. The Company has already set aside full legal reserve at 10% of the authorised ordinary shares capital.



#### 34 Subordinated capital debentures

On 10 January 2020, PTTEP Treasury Center Company Limited (PTTEP TC) which is a subsidiary of the Group, repurchased the remaining US Dollar denominated subordinated capital debentures as follows:

|  |                   |               |                  | Con               | solidated financia | al statements    |
|--|-------------------|---------------|------------------|-------------------|--------------------|------------------|
|  |                   | Unit: Milli   | on US Dollar     |                   | Unit:              | Million Baht     |
|  | Before repurchase | (Repurchased) | After repurchase | Before repurchase | (Repurchased)      | After repurchase |
|  |                   |               |                  |                   |                    |                  |
| Issuance and<br>offering value<br>Net value from | 30.85             | (30.85)       | -                |                   |                    |                  |
| finance cost                                     | 30.86             | (30.86)       | -                | 1,036.04          | (1,036.04)         | -                |

#### 35 Dividends

On 17 June 2020, the Annual General Meeting of the Shareholders approved payment of a dividend for the year 2019 at the rate of Baht 6 per share. The Company made an interim dividend payment for the first half-year operations of 2019 at the rate of Baht 2.25 per share on 23 August 2019, and for the second half-year operations of 2019 at the rate of Baht 3.75 per share on 10 April 2020.

On 28 January 2021, the Company's Board of Directors endorsed the proposal of dividend payment for the year 2020 at the rate of Baht 4.25 per share. The Company had made an interim dividend payment for the first half-year operations of 2020 at the rate of Baht 1.50 per share on 28 August 2020. The remaining is for the second half-year operations of 2020 at the rate of Baht 2.75 per share which will be paid after receiving approval from the Annual General Meeting of the Shareholders.

#### 36 Expense by nature

Significant expenses by nature of the Group which comprise the expenses based on its participating interest in each project for the years are as follows:

|   | Consolidated financial statements            |  |  |  |
|---|--|--|--|--|
|   | Unit: Mil                                    | lion US Dollar                               | Unit:  | Million Baht   |
|   | 2020   | 2019   | 2020   | 2019   |
| Salary, wages and employees'<br>benefits<br>Repair and maintenance<br>Exploration well and projects write-off<br>Geological and geophysical expenses<br>Logistics | 270.31<br>159.34<br>62.14<br>46.03<br>120.29 | 281.55<br>152.24<br>76.76<br>50.57<br>120.51 | 8,459.36<br>4,983.33<br>1,943.21<br>1,439.47<br>3,762.03 | 8,756.21<br>4,724.80<br>2,368.68<br>1,569.38<br>3,740.07 |
|   | Separate financial statements                |  |  |  |
|   |  |  |  |  |
|   | Unit: Mil                                    | lion US Dollar                               | Unit:  | Million Baht   |
|   | Unit: Mil<br>2020                            | lion US Dollar<br>2019                       | Unit:  <br>2020  | Million Baht<br>2019                                     |

# 37 Income tax expense

Income tax rates for the year ended 31 December 2020 are as follows:

|   | Tax Rate (%) |
|---|--------------|
| Income tax in Thailand  |              |
| - Corporate income tax under Revenue Code                         | 3, 20        |
| - Petroleum income tax on petroleum businesses in Thailand        |              |
| pursuant to Petroleum Income Tax Act, B.E. 2514 and 2532          | 50           |
| - Petroleum income tax on petroleum business in Thailand          |              |
| pursuant to Petroleum Income Tax Act, B.E. 2560                   | 20           |
| Income tax from the Petroleum business in the Malaysia – Thailand |              |
| Joint Development Area under the Petroleum Income Tax Act (No.5), |              |
| B.E. 2541 and Petroleum Income tax in Malaysia                    |              |
| - From the first to the eighth accounting period                  | Exempt       |
| - From the ninth to the fifteenth accounting period               | 10           |
| - From the sixteenth accounting period onwards                    | 20           |
| Income tax in Malaysia  |              |
| - Corporate income tax  | 24           |
| - The petroleum income tax  | 25, 38       |
| Corporate income tax in the Republic of the Union of Myanmar      | 25           |
| Corporate income tax in the Socialist Republic of Vietnam         | 20, 50       |
| Corporate income tax in Indonesia                                 | ,            |
| - Corporate income tax  | 30           |
| - Income tax from the profit distribution                         | 20           |
| Corporate income tax in Hong Kong Special Administrative Region   |              |
| of the People's Republic of China                                 | 16.5         |
| Corporate income tax in Portugal                                  | 21           |
| Corporate income tax in United Kingdom                            | 19           |
| Corporate income tax in the Netherlands                           | 16.5, 25     |
| Corporate income tax the Republic of Cyprus                       | 12.5         |
| Corporate income tax in Commonwealth of Australia                 | 12.0         |
| - Corporate income tax  | 30           |
| - Petroleum resource rent tax in Commonwealth of Australia        | 40           |
| Corporate income tax in the Federative Republic of Brazil         | 24, 34       |
| Corporate income tax in Canada                                    | 24           |
| Corporate income tax in Mexico                                    | 30           |
| Corporate income tax the Republic of Panama                       | 25           |
| Corporate income tax in People's Democratic Republic of Algeria   | 20           |
| - Corporate income tax  | 38           |
| - The petroleum income tax  | 20-70        |
| Income tax in Sultanate of Oman                                   | 20-70        |
|   | 15           |
| - Corporate income tax  |              |
| - The petroleum income tax  | 55, 80<br>55 |
| Corporate income tax in United Arab Emirates                      | 55           |
| Corporate income tax in Kazakhstan                                | 20           |
| - Corporate income tax  | 30           |
| - Income tax from the profit distribution                         | 15           |
| Income tax in the Republic of Mozambique                          | 32           |
| Corporate income tax in Angola                                    | 25           |
| Corporate income tax in the Republic of Kenya                     | 25           |

#### Income tax expenses for the year ended 31 December comprised:

|                           | Consolidated financial statements     |          |            |                 |
|---------------------------|---------------------------------------|----------|------------|-----------------|
|                           | Unit: Million US Dollar Unit: Million |          |            | t: Million Baht |
|                           | 2020                                  | 2019     | 2020       | 2019            |
|                           |                                       |          |            |                 |
| Current income tax        | 726.33                                | 1,089.63 | 22,678.90  | 33,766.40       |
| Deferred income tax       | (123.45)                              | (412.63) | (3,914.62) | (12,814.70)     |
| Total income tax expenses | 602.88                                | 677.00   | 18,764.28  | 20,951.70       |

|                           |                                      |          | Separate financ | ial statements  |
|---------------------------|--------------------------------------|----------|-----------------|-----------------|
|                           | Unit: Million US Dollar Unit: Millio |          |                 | t: Million Baht |
|                           | 2020                                 | 2019     | 2020            | 2019            |
|                           |                                      |          |                 |                 |
| Current income tax        | 456.86                               | 676.26   | 14,276.31       | 20,962.99       |
| Deferred income tax       | (121.53)                             | (311.97) | (3,866.52)      | (9,697.12)      |
| Total income tax expenses | 335.33                               | 364.29   | 10,409.79       | 11,265.87       |

The income tax on the Group's profit before income tax differs from the theoretical amount that would arise using the basic tax rate of the home country of the Company are as follows:

|  | Consolidated financial statements |                |             |                |
|--|-----------------------------------|----------------|-------------|----------------|
|  | Unit: Mil                         | lion US Dollar | Unit        | : Million Baht |
|  | 2020                              | 2019           | 2020        | 2019           |
|  |                                   |                |             |                |
| Profit before income tax                       | 1,322.42                          | 2,246.06       | 41,428.29   | 69,754.24      |
| Tax calculated at a tax rate of 50%            | 661.21                            | 1,123.03       | 20,714.15   | 34,877.12      |
| Tax effect of:                                 |                                   |                |             |                |
| (Gain) loss of the entities not subject to tax | (21.85)                           | 29.06          | (684.39)    | 902.54         |
| Expenses not deductible for tax purpose        | 311.47                            | 26.61          | 9,757.48    | 826.35         |
| Adjustment in respect of prior year            | 5.46                              | (8.73)         | 164.70      | (272.04)       |
| Results of operations of associates and joint  |                                   |                |             |                |
| ventures, net of tax                           | (20.82)                           | (6.17)         | (653.61)    | (190.21)       |
| Tax credit on petroleum royalty                | (391.74)                          | (505.32)       | (12,272.41) | (15,693.36)    |
| Deferred tax on functional currency            | 94.22                             | (25.88)        | 2,912.77    | (829.56)       |
| Difference in tax rate of the Group's          |                                   |                |             |                |
| operating countries                            | (32.44)                           | 29.37          | (1,016.36)  | 911.98         |
| Others   | (2.63)                            | 15.03          | (158.05)    | 418.88         |
| Tax charge                                     | 602.88                            | 677.00         | 18,764.28   | 20,951.70      |

|   | Separate financial statements |                 |                 |             |
|---|-------------------------------|-----------------|-----------------|-------------|
|   | Unit: Mi                      | llion US Dollar | Unit: Million E |             |
|   | 2020                          | 2019            | 2020            | 2019        |
|   |                               |                 |                 |             |
| Profit before income tax                  | 1,069.31                      | 1,500.01        | 33,409.66       | 46,540.96   |
| Tax calculated at a tax rate of 50%       | 534.66                        | 750.01          | 16,704.83       | 23,270.48   |
| Tax effect of:                            |                               |                 |                 |             |
| Gain from the entities not subject to tax | (5.79)                        | (23.09)         | (180.78)        | (716.34)    |
| Expenses not deductible for tax purpose   | 153.06                        | (53.60)         | 4,782.11        | (1,662.95)  |
| Adjustment in respect of prior year       | 12.75                         | (3.41)          | 393.82          | (106.26)    |
| Tax credit on petroleum royalty           | (324.65)                      | (404.91)        | (10,139.61)     | (12,563.48) |
| Deferred tax on functional currency       | 42.38                         | 20.94           | 1,315.46        | 630.24      |
| Difference in tax rate of the Group's     |                               |                 |                 |             |
| operating countries                       | (77.76)                       | 94.92           | (2,429.42)      | 2,945.23    |
| Others                                    | 0.68                          | (16.57)         | (36.62)         | (531.05)    |
| Tax charge                                | 335.33                        | 364.29          | 10,409.79       | 11,265.87   |

#### 38 Business acquisitions

#### 38.1 Business acquisition of Murphy Oil Corporation in Malaysia

On 21 March 2019, PTTEP HK Offshore Limited (PTTEP HKO), a subsidiary of the Group, signed the Share Sale and Purchase Agreement (SSPA) to acquire the 100% shareholding interests of Murphy Oil Corporation (Murphy) in Malaysia through acquisition of shares in Murphy's subsidiaries, which are Murphy Sabah Oil Co., Ltd. (Murphy Sabah) and Murphy Sarawak Oil Co., Ltd. (Murphy Sarawak), with total acquisition value of approximately US Dollar 2,130.86 million (Baht 65,724.27 million). Moreover, according to the SSPA, there may be contingent consideration of not exceeding US Dollar 100 million if there is significant petroleum found from exploration of the SK405B project. The acquisition was completed on 10 July 2019.

During the second quarter of 2020, the Group measured the fair value of the net identifiable assets acquired, which reflected additional information obtained about facts and circumstances that existed as of the acquisition date. The measurement period did not exceed one year from the acquisition date. Such information affected the fair value of the net identifiable assets at the acquisition date and goodwill as follows:

|   |                   | Consolidate | d financial statements  |
|---|-------------------|-------------|-------------------------|
|   |                   |             | Unit: Million US Dollar |
|   | Fair value as     | Increase    |                         |
|   | previously stated | (Decrease)  | Fair value              |
| Cash and cash equivalents                     | 58.90             | -           | 58.90                   |
| Trade and other receivables                   | 197.13            | -           | 197.13                  |
| Inventories                                   | 27.38             | -           | 27.38                   |
| Current tax assets                            | 16.50             | -           | 16.50                   |
| Other current assets                          | 11.26             | -           | 11.26                   |
| Property, plant and equipment                 | 1,627.38          | -           | 1,627.38                |
| Intangible assets                             | 2.49              | -           | 2.49                    |
| Exploration and evaluation assets             | 410.46            | 240.83      | 651.29                  |
| Deferred tax assets                           | 98.13             | -           | 98.13                   |
| Rights to receive reimbursement from          |                   |             |                         |
| decommissioning funds                         | 48.64             | -           | 48.64                   |
| Other non-current assets                      | 4.39              | -           | 4.39                    |
| Trade and other payables                      | (165.74)          | -           | (165.74)                |
| Other current liabilities                     | (35.80)           | -           | (35.80)                 |
| Long-term loans                               | (150.14)          | -           | (150.14)                |
| Deferred tax liabilities                      | (17.92)           | -           | (17.92)                 |
| Provision for decommissioning costs           | (268.65)          | -           | (268.65)                |
| Total   | 1,864.41          | 240.83      | 2,105.24                |
| Less Deferred tax liabilities from the effect |                   |             |                         |
| of accounting                                 | (344.71)          | (83.78)     | (428.49)                |
| Net identifiable assets                       | 1,519.70          | 157.05      | 1,676.75                |
| Goodwill                                      | 611.16            | (157.05)    | 454.11                  |
| Total consideration                           | 2,130.86          | -           | 2,130.86                |

|   | Consolidated financial statements |            |                    |  |  |
|---|-----------------------------------|------------|--------------------|--|--|
|   |                                   |            | Unit: Million Baht |  |  |
|   | Fair value as                     | Increase   |                    |  |  |
|   | previously stated                 | (Decrease) | Fair value         |  |  |
| Cash and cash equivalents                     | 1,816.86                          | -          | 1,816.86           |  |  |
| Trade and other receivables                   | 6,080.33                          | -          | 6,080.33           |  |  |
| Inventories                                   | 844.51                            | -          | 844.51             |  |  |
| Current tax assets                            | 508.89                            | -          | 508.89             |  |  |
| Other current assets                          | 347.26                            | -          | 347.26             |  |  |
| Property, plant and equipment                 | 50,194.82                         | -          | 50,194.82          |  |  |
| Intangible assets                             | 76.71                             | -          | 76.71              |  |  |
| Exploration and evaluation assets             | 12,660.24                         | 7,428.26   | 20,088.50          |  |  |
| Deferred tax assets                           | 3,026.87                          | -          | 3,026.87           |  |  |
| Rights to receive reimbursement from          |                                   |            |                    |  |  |
| decommissioning funds                         | 1,500.26                          | -          | 1,500.26           |  |  |
| Other non-current assets                      | 135.49                            | -          | 135.49             |  |  |
| Trade and other payables                      | (5,111.91)                        | -          | (5,111.91)         |  |  |
| Other current liabilities                     | (1,104.31)                        | -          | (1,104.31)         |  |  |
| Long-term loans                               | (4,631.07)                        | -          | (4,631.07)         |  |  |
| Deferred tax liabilities                      | (552.65)                          | -          | (552.65)           |  |  |
| Provision for decommissioning costs           | (8,286.43)                        | -          | (8,286.43)         |  |  |
| Total   | 57,505.87                         | 7,428.26   | 64,934.13          |  |  |
| Less Deferred tax liabilities from the effect |                                   |            |                    |  |  |
| of accounting                                 | (10,632.18)                       | (2,584.10) | (13,216.28)        |  |  |
| Net identifiable assets                       | 46,873.69                         | 4,844.16   | 51,717.85          |  |  |
| Goodwill                                      | 18,850.58                         | (4,844.16) | 14,006.42          |  |  |
| Total consideration                           | 65,724.27                         | -          | 65,724.27          |  |  |

Goodwill of US Dollar 454.11 million (Baht 14,006.42 million) arises primarily from the recognition of deferred tax liabilities arising from the difference between the fair value of net identifiable assets acquired from the acquisition and the book value which is the tax base of these net assets.

The fair value of total considerations transferred on the acquisition date of US Dollar 2,130.86 million (Baht 65,724.27 million) consists of cash payment on acquisition date of US Dollar 2,123.76 million (Baht 65,505.43 million) and deferred consideration of US Dollar 7.10 million (Baht 218.84 million), which is the fair value discounted from deferred consideration of US Dollar 7.48 million (Baht 230.70 million). The fair value is measured by using income approach based on discount rate at 2.8% and other probability assumptions which is classified as fair value level 3.

#### 38.2 Business acquisition of Partex Holding B.V.

On 17 June 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, signed the Share Sale and Purchase Agreement (SSPA) to acquire the 100% shareholding interests of Partex Holding B.V. (Partex) from the Calouste Gulbenkian Foundation with total acquisition value of approximately US Dollar 716.16 million (Baht 21,604.53 million). The acquisition was completed on 4 November 2019.

During 2020, the Group did not obtain additional facts and circumstances that existed as of the acquisition date. As a result, the fair value of the net identifiable assets and goodwill did not change from the financial statements for the year ended 31 December 2019. Details of net identifiable assets acquired on acquisition date and goodwill are as follows:



|   | Consolidated financial statements |                    |  |
|---|-----------------------------------|--------------------|--|
|   | Unit: Million US Dollar           | Unit: Million Baht |  |
|   | Fair value                        | Fair value         |  |
| Cash and cash equivalents                     | 139.12                            | 4,196.90           |  |
| Trade receivables                             | 45.52                             | 1,373.26           |  |
| Other receivables                             | 0.80                              | 24.16              |  |
| Inventories                                   | 13.88                             | 418.87             |  |
| Other current assets                          | 0.57                              | 17.24              |  |
| Investment in joint venture                   | 82.96                             | 2,502.52           |  |
| Property, plant and equipment                 | 469.08                            | 14,150.69          |  |
| Intangible assets                             | 36.71                             | 1,107.50           |  |
| Exploration and evaluation assets             | 97.71                             | 2,947.68           |  |
| Other non-current assets                      | 58.89                             | 1,776.48           |  |
| Trade payables                                | (59.70)                           | (1,800.82)         |  |
| Accrued expenses                              | (11.88)                           | (358.44)           |  |
| Current income tax payable                    | (12.95)                           | (390.66)           |  |
| Other current liabilities                     | (0.14)                            | (4.52)             |  |
| Deferred tax liabilities                      | (152.54)                          | (4,601.64)         |  |
| Employee benefit obligations                  | (44.89)                           | (1,354.08)         |  |
| Provision for decommissioning costs           | (62.60)                           | (1,888.40)         |  |
| Other non-current liabilities                 | (4.01)                            | (120.99)           |  |
| Total   | 596.53                            | 17,995.75          |  |
| Less Deferred tax liabilities from the effect |                                   |                    |  |
| of accounting                                 | (85.83)                           | (2,589.19)         |  |
| Net identifiable assets                       | 510.70                            | 15,406.56          |  |
| Goodwill                                      | 205.46                            | 6,197.97           |  |
| Total consideration                           | 716.16                            | 21,604.53          |  |

Goodwill of US Dollar 205.46 million (Baht 6,197.97 million) arises primarily from the recognition of deferred tax liabilities arising from the difference between the fair value of net identifiable assets acquired from the acquisition and the book value which is the tax base of these net assets.

The fair value of total considerations transferred on the acquisition date of US Dollar 716.16 million (Baht 21,604.53 million) was fully paid in cash by PTTEP HK on the acquisition date.

#### 39 Earnings per share

Basic earnings per share for the year ended 31 December are calculated as follows:

| nit: US Dollar<br>2019<br>1,569.06<br>(53.61) | <b>2020</b><br>22,664.01<br>(314.98) | Unit: Baht<br>2019<br>48,802.54                                |
|---|--------------------------------------|--|
| 1,569.06                                      | 22,664.01                            | 48,802.54  |
| ,   | ,                                    | ,  |
| ,   | ,                                    | ,  |
| ,   | ,                                    | ,  |
| (53.61)                                       | (314.98)                             | (1 660 07)   |
| (53.61)                                       | (314.98)                             | (1 660 07)   |
|   |                                      | (1,662.97)   |
|   |                                      |  |
| (23.59)                                       | 0.46                                 | (716.29)   |
|   |                                      |  |
| 3.07  | 77.76                                | 94.44  |
|   |                                      |  |
| 1,494.93                                      | 22,427.25                            | 46,517.72  |
|   |                                      |  |
| 3,969.98                                      | 3,969.98                             | 3,969.98   |
|   | 5.65                                 | 11.72  |
|   | 1,494.93                             | 1,494.93         22,427.25           3,969.98         3,969.98 |

|   | Separate financial statements |                 |           |           |
|---|-------------------------------|-----------------|-----------|-----------|
|   | U                             | Unit: US Dollar |           |           |
|   | 2020                          | 2019            | 2020      | 2019      |
|   |                               |                 |           |           |
| Profit attributable to equity holders of parent |                               |                 |           |           |
| (unit: million)                                 | 733.98                        | 1,135.72        | 22,999.87 | 35,275.10 |
| Less Interest expenses for subordinated         |                               |                 |           |           |
| capital debentures (unit: million)              | (9.44)                        | (13.63)         | (294.23)  | (422.13)  |
| Redemption of subordinated capital              |                               |                 |           |           |
| debentures (unit: million)                      | -                             | (0.65)          | -         | (20.99)   |
| Income tax for subordinated capital             |                               |                 |           |           |
| debentures (unit: million)                      | 2.02                          | 2.94            | 62.60     | 90.91     |
| Profit used to determine basic earnings         |                               |                 |           |           |
| per share (unit: million)                       | 726.56                        | 1,124.38        | 22,768.24 | 34,922.89 |
| Weighted average number of ordinary shares      |                               |                 |           |           |
| outstanding during the year (million shares)    | 3,969.98                      | 3,969.98        | 3,969.98  | 3,969.98  |
| Basic earnings per share                        | 0.18                          | 0.28            | 5.74      | 8.80      |

# 40 Commitments and contingent liabilities

# 40.1 Contractual commitments

As at 31 December 2020 and 31 December 2019, contractual commitments contracted but not recognised as liabilities are as follows:

|                     | Consolidated financial statements |             |             |                  |
|---------------------|-----------------------------------|-------------|-------------|------------------|
|                     | Unit: Million US Dollar           |             | Un          | it: Million Baht |
|                     | 31 December                       | 31 December | 31 December | 31 December      |
|                     | 2020                              | 2019        | 2020        | 2019             |
|                     |                                   |             |             |                  |
| Capital commitments | 1,035.36                          | 1,028.64    | 31,099.18   | 31,017.65        |
| Other commitments   | 53.99                             | 47.31       | 1,621.70    | 1,426.49         |
| Total               | 1,089.35                          | 1,075.95    | 32,720.88   | 32,444.14        |

|                     | Separate financial statements |             |             |                  |
|---------------------|-------------------------------|-------------|-------------|------------------|
|                     | Unit: Million US Dollar       |             | Un          | it: Million Baht |
|                     | 31 December                   | 31 December | 31 December | 31 December      |
|                     | 2020                          | 2019        | 2020        | 2019             |
|                     |                               |             |             |                  |
| Capital commitments | 232.79                        | 345.61      | 6,992.33    | 10,421.72        |
| Other commitments   | 29.09                         | 28.92       | 873.78      | 871.99           |
| Total               | 261.88                        | 374.53      | 7,866.11    | 11,293.71        |



#### 40.2 Contingent liabilities

- On 11 March 2016, the group of PTTEP Australasia (PTTEP AA) received a letter from a lawyer firm in Australia representing a group of West Timorese seaweed farmers, notifying the group of PTTEP AA of their intention to commence a legal action for compensation relating to the Montara oil spill incident in the Timor Sea in 2009. Subsequently, on 9 August 2016, the group of PTTEP AA was notified of a claim made in the Sydney Registry of the Federal Court of Australia seeking damages on behalf of a group of seaweed farmers (Class Action). The Statement of Claim as filed does not quantify the claim, and no supporting evidence has yet been presented to the court. The group of PTTEP AA has appointed lawyers to defend against the claim. Currently, the case is under the court determination. The Company considers that the claim from the representative of West Timorese seaweed farmers relating to Montara oil spill incident remains unproven due to insufficient evidence to support the claim.
- The Indonesia Tax Office (ITO) issued a letter to Natuna 2 B.V., a joint operation of the Group, to assess for Transfer Tax (TT) and Branch Profit Tax (BPT) on Share Purchase Agreement of Natuna 2 B.V. in 2013 between PTTEP Netherlands Holding Cooperatie U.A. and Pertamina Hulu Energi Oil and Gas, as buyers, and HESS (Luxembourg) Exploration and Production Holding S.A.R.L., as a seller. The total amount of assessed TT, BPT and applicable penalty was approximately US Dollar 119.80 million of which US Dollar 59.90 million was the Group's proportionate share.

In February 2016, Natuna 2 B.V. made an advance payment for all to assessed tax and penalty to prevent additional penalty that may arise during the appeal, together with a submission of the objection of ITO's tax assessment. In 2017, ITO rejected the objection and Natuna 2 B.V. brought the case to the tax court of Indonesia to object ITO's order and tax assessment.

Subsequently, the tax court judged that Natuna 2 B.V. won the case which resulted in recovering the full amount of advance payment in the first quarter of 2019. However, the ITO has appealed against the tax court's judgment to the Supreme Court of Indonesia while Natuna 2 B.V. has submitted the argument letter. Currently, the case is under the court determination and will be finalised when it is judged by the Supreme Court.

Later in July 2020, the Supreme Court judged that Natuna 2 B.V. won the case in accordance with the tax court's judgement which caused the finalisation of the case.

 As at 31 December 2020, the Company had contingent liabilities in the form of letters of guarantee amounting to US Dollar 343.70 million (Baht 10,323.72 million) for the separate financial statements and US Dollar 665.77 million (Baht 19,997.91 million) for the consolidated financial statements.

#### 40.3 Commitments

#### Commitment from loan agreements

The Company has a subordinated loan agreement with Energy Complex Company Limited (Energy Complex), an associate of the Company, with the loan limit of Baht 1,250 million. The agreement is effective from 2 April 2009 to 30 June 2022. The Company had provided the loan to Energy Complex, totaling to US Dollar 18.32 million (Baht 580 million).

As at 31 December 2020, the total remaining value of loan is US Dollar 15.56 million (Baht 467.50 million).

#### Commitment from the guarantee of debentures and loans of subsidiaries

The Company has commitment for the guarantee of unsecured and unsubordinated capital debenture of US Dollar 490 million for PTTEP Canada International Finance Limited (PTTEP CIF), a subsidiary of the Group.

The Company has commitment for the guarantee of unsecured and unsubordinated capital debentures of Baht 15,000 million and US Dollar 1,500 million for PTTEP Treasury Center Company Limited (PTTEP TC), a subsidiary of the Group.

The Company has commitment for the guarantee of unsecured and unsubordinated loans of US Dollar 600 million for PTTEP TC.

The Company has commitment for the guarantee of a cross currency swap transaction for PTTEP TC to swap Baht debenture for US Dollar with guaranteed amount of US Dollar 360 million.

The Company has commitment for the guarantee of the interest rate collar (zero cost collar) for PTTEP TC.

The Company has commitment for the guarantee of senior debt financing agreements of a subsidiary of Moz LNG1 Holding Company Ltd with the facility in the amount of US Dollar 14,900 million. The Company is a guarantor under this agreement with the value based on the Group's participating interest in Moz LNG1 Holding Company Ltd of 8.5%. As at 31 December 2020, the Group had not yet drawdown the loan from financial institution.

The Company has commitment for the guarantee of PTTEP TC's US Dollar loan agreement which is a committed revolving credit facilities with a financial institution. The total loan facility is in amount of US Dollar 400 million. As at 31 December 2020, the Group had not yet drawdown the loan from financial institution.

#### 41 Events occurring after the reporting date

On 11 January 2021, Zeaquest Co., Ltd. (Zeaquest), a joint venture of the Group, increased its authorised share capital amounting to Baht 150 million by issuing of 1.5 million new ordinary shares at a par value of Baht 100 each.

On 22 January 2021, PTTEP Energy Holding (Thailand) Company Limited (PTTEP EH), a subsidiary of the Company, increased its authorised share capital amounting to Baht 2,017 million by issuing 20.17 million new ordinary shares at a par value of Baht 100 each.

On 1 February 2021, PTTEP MENA Limited (PTTEP MENA), a subsidiary of the Group, signed Sale and Purchase Agreement (SPA) to acquire 20% interest in Block 61 Sultanate of Oman (Oman Block 61) from BP Exploration (Epsilon) Limited (BP). The transaction value of this acquisition is around US Dollar 2,450 million, subject to final net working capital and other closing adjustment per SPA, and the contingent payment at maximum amount of US Dollar 140 million, if the pre-agreed conditions under SPA are accomplished. The completion date is expected to be within 2021, including necessary regulatory approvals.



# Supplemental Information on Petroleum Exploration and Production Activities (Unaudited)

# (A) PTTEP and Our Subsidiaries' Petroleum Reserves Report as of December 31, 2020

The total Proved Reserves of PTTEP and our subsidiaries as of December 31, 2020 are shown in the attached table. The Proved Reserves are reviewed annually by Company's earth scientists and reservoir engineers to ensure rigorous professional standards. The Proved Reserves are reported on a gross basis, which includes the Company's net working interest and related host country's interest.

Furthermore, in order to improve efficiency, check and balance of the reserves estimation, reporting and disclosure, the company maintains a Reserves Committee which has the following roles and responsibilities:

- Review and endorse the Company's Annual Reserves
- Review and approve Major Changes of Reserves, and Reserves for Newly-Acquired Project
- Ensure that all activities that related to reserves estimation and disclosure of reserves information conform to regulatory and legal requirements as well as to corporate and international standards
- Approve Annual Reserves Audit Plan, appoint Reserves Auditor, as well as approve Reserves Audit Report to ensure compliance with Company's framework and continual process improvement

As of December 31, 2020, the total amount of Proved Reserves of PTTEP Group's projects<sup>1</sup> was 295 million stock-tank barrels (MMSTB) of crude oil and condensate<sup>2</sup>, and 4,760 billion standard cubic feet (BSCF) of natural gas or 779 million barrels of oil equivalent (MMBOE). The total amount of Proved Reserves in term of oil equivalent in consolidation was therefore 1,074 MMBOE. Proved Reserves of crude and condensate are approximately 27% while, for gas, are 73% of the total Proved Reserves in term of oil equivalent.

In 2020, the total production of PTTEP Group<sup>1</sup> was 155 MMBOE, consisting of 47 MMSTB of crude oil and condensate<sup>2</sup> and 675 BSCF or 108 MMBOE of natural gas. This was equivalent to the production rate of 422,278 barrels of oil equivalent per day (BOED), which was 8,638 BOED or approximately 2% increase from the previous year. However, the total production of PTTEP Group is lower than target production at 5% CAGR (Compound Annual Growth Rate) due to global pandemic of COVID-19 and lower oil prices situations which impact to many aspects including exploration and production operations, petroleum transportation, energy demands and market.

- <sup>1</sup> Include APICO Joint Venture project
- <sup>2</sup> Include Natural Gas Liquids (NGL)

| PTT Exploration and Production Public Company Limited |   |          |                       |          |            |       |          |              |        |  |
|---|---|----------|-----------------------|----------|------------|-------|----------|--------------|--------|--|
| Crude   | Crude Oil and Condensate and Natural Gas Proved Reserves <sup>(1)</sup> |          |                       |          |            |       |          |              |        |  |
|   | Crude Oil   | and Cond | ensate <sup>(2)</sup> | N        | atural Gas |       | Barrel   | of Oil Equiv | valent |  |
|   |   | (MMSTB)  |                       |          | (BSCF)     |       | (        | (MMBOE)      |        |  |
|   | Domestic  | Foreign  | Total                 | Domestic | Foreign    | Total | Domestic | Foreign      | Total  |  |
| Company's share of proved reserves of                 |   |          |                       |          |            |       |          |              |        |  |
| consolidated companies                                |   |          |                       |          |            |       |          |              |        |  |
| As of December 31, 2018                               | 116   | 48       | 164                   | 2,181    | 1,105      | 3,286 | 470      | 207          | 677    |  |
| 1) Revision of previous estimates                     | 13  | (1)      | 12                    | 160      | (53)       | 107   | 41       | (4)          | 37     |  |
| 2) Improved recovery                                  | 1   | 0        | 1                     | 1        | 1          | 2     | 2        | 1            | 3      |  |
| 3) Extensions and discoveries                         | 2   | 45       | 47                    | 21       | 954        | 975   | 5        | 207          | 212    |  |
| 4) Purchases/Sales of Petroleum in place              | 21  | 106      | 127                   | 816      | 582        | 1,398 | 153      | 206          | 359    |  |
| 5) Production   | (30)  | (11)     | (41)                  | (475)    | (212)      | (687) | (107)    | (43)         | (150)  |  |
| As of December 31, 2019                               | 123   | 187      | 310                   | 2,704    | 2,377      | 5,081 | 564      | 574          | 1,138  |  |
| Company's share of proved reserves of                 |   |          |                       |          |            |       |          |              |        |  |
| consolidated companies                                |   |          |                       |          |            |       |          |              |        |  |
| As of December 31, 2019                               | 123   | 187      | 310                   | 2,704    | 2,377      | 5,081 | 564      | 574          | 1,138  |  |
| 1) Revision of previous estimates                     | 9   | 4        | 13                    | 145      | 23         | 168   | 33       | 9            | 42     |  |
| 2) Improved recovery                                  | 1   | 6        | 7                     | 1        | 0          | 1     | 1        | 6            | 7      |  |
| 3) Extensions and discoveries                         | 6   | 6        | 12                    | 165      | 2          | 167   | 33       | 6            | 39     |  |
| 4) Purchases/Sales of Petroleum in place              | -   | -        | -                     | -        | -          | -     | -        | -            | -      |  |
| 5) Production   | (27)  | (20)     | (47)                  | (435)    | (231)      | (666) | (98)     | (55)         | (153)  |  |
| As of December 31, 2020                               | 112   | 183      | 295                   | 2,580    | 2,171      | 4,751 | 533      | 540          | 1,073  |  |

The Proved Reserves are reported on a gross basis which includes the Company's net working interest and the related host country's interest.
 Include Natural Gas Liquids (NGL)



| PTT Exploration and Production Public Company Limited |   |         |         |            |         |                          |                        |         |       |
|---|---|---------|---------|------------|---------|--------------------------|------------------------|---------|-------|
| Cruc  | de Oil an                               | d Conde | nsate a | nd Natural | Gas Pr  | oved Re                  | eserves <sup>(1)</sup> |         |       |
|   | Crude Oil and Condensate <sup>(2)</sup> |         | N       | atural Gas | ;       | Barrel of Oil Equivalent |                        |         |       |
|   |   | (MMSTB) |         |            | (BSCF)  |                          | (                      | (MMBOE) |       |
|   | Domestic                                | Foreign | Total   | Domestic   | Foreign | Total                    | Domestic               | Foreign | Total |
| Company's share of proved reserves of                 |   |         |         |            |         |                          |                        |         |       |
| equity companies <sup>(3)</sup>                       |   |         |         |            |         |                          |                        |         |       |
| As of December 31, 2018                               | -                                       | -       | -       | -          | -       | -                        | -                      | -       | -     |
| 1) Revision of previous estimates                     | 0                                       | -       | 0       | 2          | -       | 2                        | 0                      | -       | 0     |
| 2) Improved recovery                                  | -                                       | -       | -       | -          | -       | -                        | -                      | -       | -     |
| 3) Extensions and discoveries                         | -                                       | -       | -       | -          | -       | -                        | -                      | -       | -     |
| 4) Purchases/Sales of Petroleum in place              | 0                                       | -       | 0       | 17         | -       | 17                       | 3                      | -       | 3     |
| 5) Production   | (0)                                     | -       | (0)     | (3)        | -       | (3)                      | (1)                    | -       | (1)   |
| As of December 31, 2019                               | 0                                       | -       | 0       | 16         | -       | 16                       | 2                      | -       | 2     |
| Company's share of proved reserves of                 |   |         |         |            |         |                          |                        |         |       |
| equity companies <sup>(3)</sup>                       |   |         |         |            |         |                          |                        |         |       |
| As of December 31, 2019                               | 0                                       | -       | 0       | 16         | -       | 16                       | 2                      | -       | 2     |
| 1) Revision of previous estimates                     | -                                       | -       | -       | -          | -       | -                        | 0                      | -       | 0     |
| 2) Improved recovery                                  | -                                       | -       | -       | -          | -       | -                        | -                      | -       | -     |
| 3) Extensions and discoveries                         | 0                                       | -       | 0       | 2          | -       | 2                        | 1                      | -       | 1     |
| 4) Purchases/Sales of Petroleum in place              | -                                       | -       | -       | -          | -       | -                        | -                      | -       | -     |
| 5) Production   | (0)                                     | -       | (0)     | (9)        | -       | (9)                      | (2)                    | -       | (2)   |
| As of December 31, 2020                               | 0                                       | -       | 0       | 9          | -       | 9                        | 1                      | -       | 1     |
| Total Proved Reserves                                 | 112                                     | 102     | 205     | 2 500      | 2 4 7 4 | 4 760                    | E2.4                   | 540     | 1 074 |
| As of December 31, 2020                               | 112                                     | 183     | 295     | 2,589      | 2,171   | 4,760                    | 534                    | 540     | 1,074 |

<sup>(1)</sup> The Proved Reserves are reported on a gross basis which includes the Company's net working interest and the related host country's interest.

(2) Include Natural Gas Liquids (NGL)

(3) Reserves from APICO Joint Venture project



#### (B) Capitalized Costs Relating to Oil and Gas Producing Activities

Capitalized costs represent cumulative expenditures for proved and unproved properties together with related accumulated depreciation, depletion, amortization and allowance for impairment.

Proved properties include exploration wells, development wells, transportation pipeline, producing facilities, right-of-use assets and decommissioning costs. Unproved properties represent amounts associated with capitalized cost of projects which have not yet found proved reserves.

| (Unit: Million US Dollar)   | 2020                             | 2019                             |
|---|----------------------------------|----------------------------------|
| Proved properties   | 32,435                           | 31,152                           |
| Unproved properties   | <u>4,694</u>                     | <u>4,366</u>                     |
| Gross capitalized costs   | 37,129                           | 35,518                           |
| Accumulated depreciation, depletion, amortization and allowance for impairment <b>Net capitalized costs</b> | <u>(23,996)</u><br><u>13.133</u> | <u>(22,277)</u><br><u>13,241</u> |

#### (C) Costs Incurred in Oil and Gas Property Acquisition, Exploration, and Development Activities

Costs incurred in oil and gas property acquisition, exploration and development activities represent amounts both capitalized and charged to expense during the year.

Property acquisition costs include costs to purchase proved and unproved properties.

Exploration costs include geological and geophysical expenses, exploratory drilling cost as well as reservation fee for exploration blocks.

Development costs include costs associated with drilling and equipping development wells, improved recovery systems, facilities for extraction, treating, gathering and storage, producing facilities for existing developed reserves, and costs associated with transportation pipeline.

|                           |      |            | 2020       |              | 2019       |              |            |  |
|---------------------------|------|------------|------------|--------------|------------|--------------|------------|--|
| (Unit: Million US Dollar) |      | Domestic   | Foreign    | Total        | Domestic   | Foreign      | Total      |  |
| Acquisition of properties |      |            |            |              |            |              |            |  |
| - Proved                  |      | 8          | -          | 8            | 60         | 2,580        | 2,640      |  |
| - Unproved                |      | -          | 1          | 1            | -          | 22           | 22         |  |
| Exploration costs         |      | 21         | 133        | 154          | 5          | 210          | 215        |  |
| Development costs         |      | <u>669</u> | <u>510</u> | <u>1,179</u> | <u>594</u> | 354          | <u>948</u> |  |
| т                         | otal | <u>698</u> | 644        | 1.342        | <u>659</u> | <u>3.166</u> | 3.825      |  |

#### (D) Results of operations for producing activities

Results of operations from oil and gas producing activities for the year 2020 and 2019 are shown in the following table.

Operating expenses include lifting costs incurred to operate and maintain productive wells and related equipment.

Exploration expenses consist of geological and geophysical costs, and exploratory well write off expenses.

Administrative expenses are expenses directly related to oil and gas producing activities.

Depreciation, depletion and amortization expenses relates to capitalized costs incurred in acquisition, exploration and development activities, transportation pipeline, including amortized decommissioning costs.

Other expenses (income) mainly include impairment loss on assets, foreign exchange gains and losses directly related to oil and gas producing activities and other income.

Income tax expenses are based on the results of operations from petroleum producing activities.

General corporate overhead and finance costs are excluded from the results of operations for petroleum producing activities.

|  |             | 2020      |            | 2019         |             |              |  |
|--|-------------|-----------|------------|--------------|-------------|--------------|--|
| (Unit: Million US Dollar)                | Domestic    | Foreign   | Total      | Domestic     | Foreign     | Total        |  |
| Revenues                                 |             |           |            |              |             |              |  |
| Revenues - Related parties               | 3,290       | 864       | 4,154      | 4,281        | 1,024       | 5,305        |  |
| Revenues - Third parties                 | 251         | 961       | 1,212      | 276          | 891         | 1,167        |  |
| Total revenues from sales                | 3,541       | 1,825     | 5,366      | 4,557        | 1,915       | 6,472        |  |
| Expenses                                 |             |           |            |              |             |              |  |
| Operating expenses                       | 461         | 583       | 1,044      | 486          | 582         | 1,068        |  |
| Exploration expenses                     | 5           | 99        | 104        | 2            | 127         | 129          |  |
| Administrative expenses                  | 32          | 99        | 131        | 43           | 94          | 137          |  |
| Petroleum royalties                      | 408         | 2         | 410        | 528          | 19          | 547          |  |
| Depreciation, depletion and amortization | 1,392       | 659       | 2,051      | 1,511        | 497         | 2,008        |  |
| Other (income) / expenses                | <u>(33)</u> | <u>89</u> | <u>56</u>  | <u>(59)</u>  | <u>(37)</u> | <u>(96)</u>  |  |
| Total expenses                           | 2,265       | 1,531     | 3,796      | 2,511        | 1,282       | 3,793        |  |
| Results before income taxes              | 1,276       | 294       | 1,570      | 2,046        | 633         | 2,679        |  |
| Income tax expenses                      | 385         | 198       | 583        | 706          | 210         | 916          |  |
| Net results of operations                | <u>891</u>  | <u>96</u> | <u>987</u> | <u>1,340</u> | <u>423</u>  | <u>1,763</u> |  |

#### (E) Standardized Measure of Discounted Future Net Cash Flows (SMDCF) Relating to the Proved Oil and Gas Reserves

The standardized measure of discounted future net cash flows related to the above proved oil and gas reserves, is computed by applying 12-month average prices\* (with consideration of price changes only to the extent provided by contractual arrangements), to the estimated future production of year-end remaining proved oil and gas reserves less estimated future expenditures (based on year-end costs) to be incurred in developing and producing the proved reserves.

Future income taxes are calculated by applying the appropriate year-end statutory tax rates to the future pre-tax net cash flows and deducted by applicable tax deductions or tax credits.

Net Cash flows are discounted using a rate of 10% per year to reflect the estimated timing of the future cash flows.

The estimation of discounted future net cash flow shown below is not intended to represent the fair value of oil and gas properties. The fair value should take into account of several factors, such as probable and possible reserves which may turn into proved reserves in the future, anticipated future oil and gas prices, interest rates, changes in development and production costs and risks associated with future production. Therefore the fair value will subject to the view and perception of analyst.

\* Twelve-month average prices are calculated as the unweighted arithmetic average of the first-day-of-the-month price for each month.

| (Unit: Million US Dollar)                | Domestic       |                | Foreign        |                | Total          |                |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
|  | 2020           | 2019           | 2020           | 2019           | 2020           | 2019           |
| Future cash inflows                      | 14,293         | 17,902         | 13,375         | 20,025         | 27,668         | 37,927         |
| Future production costs                  | (2,578)        | (2,784)        | (3,932)        | (4,946)        | (6,510)        | (7,730)        |
| Future development costs                 | (7,124)        | (7,548)        | (3,343)        | (3,682)        | (10,467)       | (11,230)       |
| Future income tax expenses               | <u>(1,307)</u> | <u>(2,174)</u> | <u>(1,410)</u> | <u>(3,186)</u> | <u>(2,717)</u> | <u>(5,360)</u> |
| Future net cash flows                    | 3,284          | 5,396          | 4,690          | 8,211          | 7,974          | 13,607         |
| 10% annual discount                      | <u>(569)</u>   | <u>(1,091)</u> | <u>(2,247)</u> | <u>(4,039)</u> | <u>(2,816)</u> | <u>(5,130)</u> |
| Standardized measure of discounted       | 2,715          | 4,305          | 2,443          | 4,172          | 5,158          | 8,477          |
| future net cash flows (SMDCF) of         |                |                |                |                |                |                |
| consolidated companies                   |                |                |                |                |                |                |
| SMDCF of equity companies <sup>(1)</sup> | <u>14</u>      | <u>37</u>      | -              | -              | <u>14</u>      | <u>37</u>      |
| Total SMDCF                              | <u>2,729</u>   | <u>4,342</u>   | <u>2,443</u>   | <u>4,172</u>   | <u>5,172</u>   | <u>8,514</u>   |

# Standardized Measure of Discounted Future Net Cash Flows Relating to Prove Oil and Gas Reserves

# Changes in Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

| (Unit: Million US Dollar)  | 2020         | 2019           |
|--|--------------|----------------|
| Present value at beginning of year of consolidated companies                       | 8,477        | 6,811          |
| Sales and transfers of oil and gas produced, net of production costs during period | (3,624)      | (4,652)        |
| Development costs incurred during the period                                       | 1,437        | 960            |
| Net changes in prices and production costs   | (7,387)      | 2,197          |
| Net changes in development costs   | 340          | (112)          |
| Extensions, discoveries and improved recovery                                      | 399          | 4,414          |
| Revisions of previous quantity estimates   | 559          | 415            |
| Purchases / sales of petroleum in place  | -            | 3,714          |
| Accretions of discount   | 2,314        | (3,143)        |
| Net changes in income taxes  | <u>2,643</u> | <u>(2,127)</u> |
| Present value at the year end of consolidated companies                            | 5,158        | 8,477          |
| Present value at the year end of equity company <sup>(1)</sup>                     | <u>14</u>    | <u>37</u>      |
| Total Present value at the year end  | <u>5,172</u> | <u>8,514</u>   |

<sup>(1)</sup> Included investment in APICO Joint Venture project

#### (F) Other Information

#### **Producing Oil and Gas Wells**

The numbers of producing wells\* as of December 31, 2020 were as follows:

|                | Oil    | Gas   |
|----------------|--------|-------|
| Thailand       | 1,455  | 1,549 |
| Foreign        |        |       |
| Southeast Asia | 121    | 411   |
| Others         | 10,542 | -     |
| Total          | 12,118 | 1,960 |

Definition of producing wells:

- Producing wells: wells which are either currently producing or temporary closed, but exclude water disposal wells or wells which have been plugged & abandoned.
- Producing Oil wells: Wells which primarily produce oil, with or without associated gas.
- Producing Gas wells: Wells which primarily produce natural gas, with or without associated liquids.

# Drilling in Progress of Oil and Gas Wells

The numbers of wells in progress at December 31, 2020 were as follows:

|                | Number of<br>Well* |
|----------------|--------------------|
| Exploratory    |                    |
| Thailand       | -                  |
| Foreign        |                    |
| Southeast Asia | 2                  |
| Others         | -                  |
| Total          | 2                  |
| Development    |                    |
| Thailand       | 19                 |
| Foreign        |                    |
| Southeast Asia | 3                  |
| Others         | 5                  |
| Total          | 27                 |

\* Total number of wells reported at 100% (Gross), not only PTTEP's participating interest.

# Oil and Gas Wells\* Drilled Annually in 2020

|                | <b>Technical Success</b> | Dry Well |
|----------------|--------------------------|----------|
| Exploratory    |                          |          |
| Thailand       | 1                        | 2        |
| Foreign        |                          |          |
| Southeast Asia | 3                        | 3        |
| Others         | 2                        | -        |
| Total          | 6                        | 5        |

|                | Productive Well | Dry Well |
|----------------|-----------------|----------|
| Development    |                 |          |
| Thailand       | 252             | 10       |
| Foreign        |                 |          |
| Southeast Asia | 10              | -        |
| Others         | 48              | _        |
| Total          | 310             | 10       |

\* Total number of wells reported at 100% (Gross), not only PTTEP's participating interest.

# Quarterly Information in 2020 and 2019 for the consolidated financial statement are as follows:

|   |               |               |               | Unit: US Dollar |
|---|---------------|---------------|---------------|-----------------|
| <u>Year 2020</u>  | 4thQ          | <u>3rdQ</u>   | 2ndQ          | <u>1stQ</u>     |
| Revenues  |               |               |               |                 |
| Revenue from sales                                      | 1,292,489,924 | 1,228,269,834 | 1,040,554,236 | 1,481,856,163   |
| Revenue from pipeline transportation                    | 18,581,904    | 25,150,163    | 24,964,177    | 23,653,436      |
| Other income  |               |               |               |                 |
| Gain on foreign exchange rates                          | 19,279,853    | 9,531,822     | 9,255,093     | -               |
| Gain on remeasuring of financial instruments            | -             | 27,424,137    | -             | 221,686,451     |
| Gain on debt modification                               | -             | -             | -             | 22,307,226      |
| Interest income   | 7,451,259     | 7,638,461     | 8,398,532     | 13,240,675      |
| Other income  | 9,697,133     | 7,222,020     | 11,439,479    | 8,652,743       |
| Total Revenues  | 1,347,500,073 | 1,305,236,437 | 1,094,611,517 | 1,771,396,694   |
| Expenses  |               |               |               |                 |
| Operating expenses                                      | 234,095,390   | 181,109,196   | 183,427,037   | 196,480,299     |
| Exploration expenses                                    | 26,820,827    | 8,310,962     | 30,557,602    | 38,624,384      |
| Administrative expenses                                 | 117,060,553   | 68,934,224    | 62,362,082    | 65,759,881      |
| Petroleum royalties                                     | 103,708,965   | 105,315,995   | 78,220,818    | 122,908,098     |
| Depreciation, depletion and amortisation                | 547,871,169   | 514,704,467   | 487,111,110   | 536,396,047     |
| Other expenses  |               |               |               |                 |
| Loss on foreign exchange rates                          | -             | -             | -             | 12,004,502      |
| Loss on remeasuring of financial instruments            | 72,158,448    | -             | 77,621,241    | -               |
| Impairment loss on assets                               | 44,071,992    | -             | 47,504,332    | -               |
| Other expenses  | -             | -             | -             | 20,341,034      |
| Finance costs   | 66,930,316    | 61,815,981    | 60,872,548    | 64,857,604      |
| Total Expenses  | 1,212,717,660 | 940,190,825   | 1,027,676,770 | 1,057,371,849   |
| Share of profit (loss) of associates and joint ventures | 25,083,097    | 4,592,758     | (1,810,940)   | 13,771,200      |
| Profit before income taxes                              | 159,865,510   | 369,638,370   | 65,123,807    | 727,796,045     |
| Income taxes  | (79,320,917)  | (139,744,990) | 68,660,413    | (452,474,724)   |
| Profit for the year                                     | 80,544,593    | 229,893,380   | 133,784,220   | 275,321,321     |
| Earnings per share                                      |               |               |               |                 |
| Basic earnings per share                                | 0.02          | 0.06          | 0.03          | 0.07            |

12-4

| Year 2019  | 4thQ          | _3rdQ_        | _2ndQ_        | Unit: US Dollar<br>_ <b>1stQ</b> |
|--|---------------|---------------|---------------|----------------------------------|
| Revenues   |               |               |               |                                  |
| Revenue from sales                               | 1,754,900,631 | 1,494,389,633 | 1,469,499,654 | 1,327,626,240                    |
| Revenue from pipeline transportation             | 25,211,924    | 29,453,709    | 33,441,021    | 28,289,483                       |
| Other income                                     |               |               |               |                                  |
| Gain on foreign exchange rates                   | 29,442,854    | 19,975,173    | 26,449,713    | 32,729,790                       |
| Gain on remeasuring of financial instruments     | -             | 21,347,992    | -             | -                                |
| Interest income                                  | 13,597,516    | 12,741,830    | 32,807,784    | 27,087,691                       |
| Other income                                     | 16,929,538    | 15,382,313    | 10,407,629    | 12,671,171                       |
| Total Revenues                                   | 1,840,082,463 | 1,593,290,650 | 1,572,605,801 | 1,428,404,375                    |
| Expenses   |               |               |               |                                  |
| Operating expenses                               | 280,742,698   | 181,382,444   | 153,473,481   | 135,083,704                      |
| Exploration expenses                             | 27,496,976    | 59,091,981    | 33,006,988    | 8,502,045                        |
| Administrative expenses                          | 132,383,175   | 93,950,863    | 92,580,760    | 64,861,714                       |
| Petroleum royalties                              | 151,527,598   | 135,608,689   | 137,138,703   | 122,059,219                      |
| Depreciation, depletion and amortisation         | 577,988,263   | 511,721,459   | 476,953,188   | 459,392,677                      |
| Other expenses                                   |               |               |               |                                  |
| Loss on remeasuring of financial instruments     | 41,020,245    | -             | 7,709,075     | 82,018,396                       |
| Finance costs                                    | 62,434,355    | 59,800,813    | 55,684,491    | 57,059,082                       |
| Total Expenses                                   | 1,273,593,310 | 1,041,556,249 | 956,546,686   | 928,976,837                      |
| Share of profit of associates and joint ventures | 6,303,945     | 802,183       | 2,518,049     | 2,727,662                        |
| Profit before income taxes                       | 572,793,098   | 552,536,584   | 618,577,164   | 502,155,200                      |
| Income taxes                                     | (189,146,369) | (193,931,190) | (185,994,360) | (107,926,126)                    |
| Profit for the year                              | 383,646,729   | 358,605,394   | 432,582,804   | 394,229,074                      |
| Earnings per share                               |               |               |               |                                  |
| Basic earnings per share                         | 0.09          | 0.09          | 0.10          | 0.10                             |

# Petroleum Sales Volume and Average Unit Prices

|  | 2020    | 2019    |
|--|---------|---------|
| Net sales of petroleum (BOED)<br>Average petroleum unit prices | 354,052 | 350,651 |
| Average unit prices of crude oil and condensate (USD/BBL)      | 41.55   | 61.18   |
| Average unit prices of natural gas<br>(USD/MMBTU)              | 6.27    | 6.92    |
| Average unit prices of petroleum<br>(USD/BOE)                  | 38.92   | 47.24   |
| Lifting cost (USD/BOE)   | 4.47    | 4.31    |





# PTT Exploration and Production Public Company Limited

555/1 Energy Complex Building A, Floors 6<sup>th</sup>, 19<sup>th</sup>-36<sup>th</sup> Vibhavadi Rangsit Rd., Chatuchak, Chatuchak, Bangkok 10900 Tel: 66 (0) 2537-4000 Fax: 66 (0) 2537-4444 www.pttep.com www.facebook.com/pttepplc

Cover Photo:

ALBATROSS-1, fixed-wing vertical takeoff and landing (VTOL) unmanned aerial vehicle (UAV), is deployed for the inspection of pipeline structures using smart data processing system. The UAV helps to reduce costs as well as enhances operational efficiency and safety.

This report's cover is made from 100% eco fiber green card paper. The paper inside is made from an environmentally-friendly production process. The report is printed with Soy ink.



Scan to visit PTTEP website