

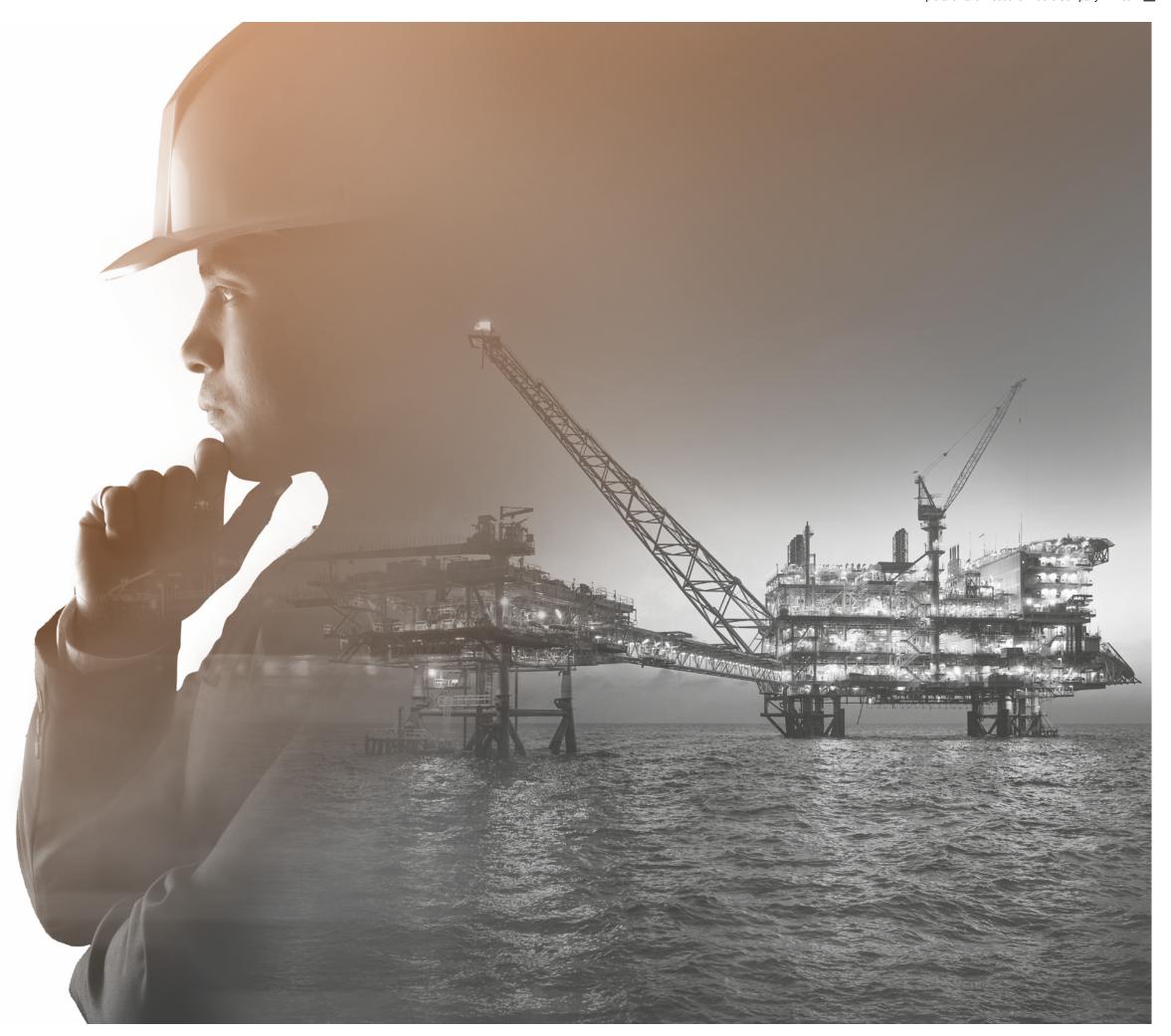
ENERGY PARTNER OF CHOICE

Forging Ahead

What began as our first domestic project has blossomed into some 40 projects in 15 countries. From a handful of office employees to a headcount of some 4,000.

> From apprenticeship to international acceptance.

Our 35 years in the pursuit of energy security and the stewardship of society, communities, and the environment speaks volumes for our determination and commitment.



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(Unofficial Translation)

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. Prajya Phinyawat)

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(Signed) (Mr. Phongsthorn Thavisin)

Chairman

President and Chief Executive Officer

February 18, 2020

Auditor's Report

To The Shareholders of PTT Exploration and Production Public Company Limited

Opinion

The State Audit Office of the Kingdom of Thailand has audited the accompanying consolidated financial statements of PTT Exploration and Production Public Company Limited and its subsidiaries (the Group), and the Company's financial statements of PTT Exploration and Production Public Company Limited (the Company), which comprise the consolidated and the Company's statements of financial position, as at December 31, 2019, the consolidated and the Company's statements of income, the consolidated and the Company's statements of comprehensive income, the consolidated and the Company's statements of changes in equity and the consolidated and the Company's statements of cash flows for the year then ended, which are presented in US Dollar and Thai Baht, and notes to the consolidated and the Company's financial statements, including a summary of significant accounting policies.

In the State Audit Office of the Kingdom of Thailand's opinion, the above mentioned consolidated and the Company's financial statements present fairly, in all material respects, the consolidated financial position of PTT Exploration and Production Public Company Limited and its subsidiaries, and the Company's financial position of PTT Exploration and Production Public Company Limited, as at December 31, 2019, and their consolidated and the Company's financial performance and cash flows for the year then ended, presented in US Dollar and Thai Baht, in accordance with Thai Financial Reporting Standards (TFRSs).

Basis for Opinion

The State Audit Office of the Kingdom of Thailand conducted the audit in accordance with the State Audit Standards and Thai Standards on Auditing (TSAs). The State Audit Office of the Kingdom of Thailand's responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated and the Company's Financial Statements section of the State Audit Office of the Kingdom of Thailand's report. The State Audit Office of the Kingdom of Thailand is independent of the Group and the Company in accordance with the State Audit Standard Rules as determined by the State Audit Commission and the ethical requirements set out in the Thailand Federation of Accounting Professions' Code of Ethics for Professional Accountants that are relevant to the State Audit Office of the Kingdom of Thailand's audit of the consolidated and the Company's financial statements, and has fulfilled other ethical responsibilities in accordance with the State Audit Standard Rules and these ethical requirements. The State Audit Office of the Kingdom of Thailand believes that the audit evidence

(Unofficial Translation)

the State Audit Office of the Kingdom of Thailand has obtained is sufficient and appropriate to provide a basis for the State Audit Office of the Kingdom of Thailand's opinion.

Key Audit Matters

Key audit matters are those matters that, in the State Audit Office of the Kingdom of Thailand's professional judgment, were of most significance in the audit of the consolidated and the Company's financial statements of the current period. These matters were addressed in the context of the State Audit Office of the Kingdom of Thailand's audit of the consolidated and the Company's financial statements as a whole, and in forming the State Audit Office of the Kingdom of Thailand's opinion thereon, and the State Audit Office of the Kingdom of Thailand does not provide a separate opinion on these matters.

The State Audit Office of the Kingdom of Thailand identifies the followings as key audit matters to communicate:

1. Estimation of petroleum reserves (the consolidated and the Company's financial statements)

Petroleum reserves are an indicator of the Group's potential to operate its businesses in the future and one of the factors taken into consideration in petroleum exploration and production that reflect the Group's ability to continue as a going concern. Petroleum reserves, especially proved reserves, have a significant impact on the financial statements in impairment testing and calculations of depreciation, depletion, and amortization expenses as described in Note 4.12, Significant Accounting Policies – Property, Plant and Equipment, Note 8, Major Estimates and Assumptions – Estimation of Petroleum Reserves, and Note 21, Property, Plant and Equipment.

Estimated proved reserves may differ from actual reserves to be recoverable in the future because the estimation is based on available information at the time of the estimation. At the beginning of each project, an estimate may be subject to a large variance, but the variance becomes smaller when the project approaches the end of its production life. This may impact the management's investment decisions to sustain the Group's businesses. The management relies on the Group's internal teams of experts in estimating proved reserves using the estimation methods consistent with those generally employed by the petroleum exploration and production industry. The experts have to exercise significant judgment as well as experience in determining appropriate estimation methods for the available information at the time of the estimation. Therefore, the amount of proved reserves may vary with individual judgment and experience. In addition, changes in the estimated proved reserves will impact the recognition of depreciation, depletion, and amortization expenses in the financial statements. As a result, the State Audit Office of the Kingdom of Thailand considers this as a key audit matter.

The State Audit Office of the Kingdom of Thailand performed the following key audit procedures:

- 1. Obtaining an understanding of the proved reserve estimation processes, assessing the adequacy of the designed key internal controls, and performing tests of key controls of such processes, especially the controls over the reliability of the data used in the preparation of reports related to the Group's proved reserves and the uses of proved reserves data in the calculation of depreciation, depletion, and amortization expenses, as well as the assessment of impairment of assets.
- Assessing the qualifications of the Group's internal experts who are responsible for estimating proved reserves and preparing the Group's proved reserves data.
- 3. Using the results of the reserve estimation audit performed by the energy regulatory agency in Thailand, which has its own processes and experts for verifying the estimation of domestic petroleum reserves for projects the operators of which have submitted the required reports. The State Audit Office of the Kingdom of Thailand compared the Group's proved reserves at the end of 2018 with those verified by the regulatory agency and reconciled with the estimated proved reserves presented in internal reports related to proved reserves during the year to determine the estimated proved reserves of domestic projects of which the Group was the operator at the end of 2019.
- 4. Verifying that the Group recognized significant changes in the estimated proved reserves in the appropriate accounting period and in accordance with the Group's accounting policy, and those changes were applied to the calculation of depreciation, depletion, and amortization expenses appropriately.

2. Provision for decommissioning costs (the consolidated and the Company's financial statements)

Provision for decommissioning costs is disclosed in Note 8, Major Estimates and Assumptions – Provision for Decommissioning Costs and Note 32, Provision for Decommissioning Costs. As at December 31, 2019, the total short-term and long-term provision for decommissioning costs was presented in the consolidated and the Company's financial statements in the amount of US Dollar 3,010.27 million and US Dollar 1,584.35 million, respectively. Decommissioning activities occur at the end of projects. Decommissioning methods vary with locations of petroleum exploration and production, which are classified into onshore and offshore production areas, where the main infrastructure, including Central Processing Platforms, Well Head Platform, Development Well, Pipeline, and other producing properties, is installed. Also, the regulations in each country have varying requirements for decommissioning activities, which can be either total or partial removal. In addition, only a small number of decommissioning activities with certain natures have taken place, resulting in limited decommissioning cost information that can be used as a reference in the Group's estimation of future expenses. Due to these factors, the calculation of the provision for decommissioning costs has to rely significantly on the exercise of judgment in determining assumptions around decommissioning costs, inflation rates, discount rates, and timing of the decommissioning based on the estimated field life of a project. These assumptions are

subject to change over time. The management relies on the Group's teams of experts, comprising those from Engineering and Development Group, Production Asset Group, Operations Support Group, and Finance and Accounting Group in estimating the provision for decommissioning costs. As a result, the State Audit Office of the Kingdom of Thailand considers this as a key audit matter.

The State Audit Office of the Kingdom of Thailand performed the following key audit procedures:

- Obtaining an understanding of the decommissioning cost estimation processes, assessing
 the adequacy of the designed internal controls, and performing tests of controls over the estimation,
 review, and adjustment of the provision for decommissioning costs, as well as related approval.
- Assessing the qualifications of the Group's experts who are responsible for estimating the provision for decommissioning costs and those who are responsible for inspecting and controlling the quality of engineering work.
- Evaluating the reasonableness of the assumptions used in the calculation of provision for decommissioning costs by
- 3.1 Evaluating the reasonableness of the decommissioning costs through inquiry of the experts about the assumptions used, relying on the State Audit Office of the Kingdom of Thailand's knowledge of the businesses, decommissioning information of other comparable projects and related laws;
- 3.2 Evaluating the appropriateness of the expected timing of decommissioning used in the calculation of the provision for decommissioning costs by considering its consistency with investment plans, initial decommissioning plan submitted to the energy regulatory agency in Thailand, or any other related information; and
- 3.3 Evaluating the appropriateness of inflation rates and discount rates through inquiry of the experts and comparison with the information from external sources.
- 4. Agreeing decommissioning costs used in the calculation of the provision for decommissioning costs to the information obtained from the Group's engineers, both for projects of which the Group is the operator and for projects of which the Group is non-operator.
- Validating significant changes in the estimated decommissioning costs incurred during the year and changes that impact the statements of income against supporting evidence.
 - 6. Testing the calculation of the provision for decommissioning costs.
- 7. In case of projects for which the Group had submitted the initial decommissioning plan and the decommissioning cost estimate report, required to be audited and verified by the Group's external experts, to the energy regulatory agency in Thailand, the State Audit Office of the Kingdom of Thailand assessed the reliability of the external experts by ensuring that their qualifications, work experience and independence were

in compliance with the requirements imposed by the regulatory agency for the appointment of third parties in auditing and verifying the decommissioning cost estimates.

8. Comparing actual decommissioning cost incurred with those estimated by the Group to evaluate the appropriateness of the estimation. In case that there were any significant variances, the State Audit Office of the Kingdom of Thailand considered the reasonableness of clarifications made by the Group regarding the causes of such variances, as well as considered whether the Group incorporated the experience gained from the actual decommissioning in the current year into the review of the provision appropriately.

Business combination (the consolidated and the Company's financial statements)

As disclosed in Note 6, Business Acquisition in Murphy Oil Corporation in Malaysia, and Note 7, Business Acquisition in Partex Holding B.V., the Group acquired the 100% shareholding interests of Murphy Oil Corporation (Murphy) in Malaysia through the acquisition of 100% shares interests in Murphy's subsidiaries, which are Murphy Sabah Oil Co., Ltd. (Murphy Sabah) and Murphy Sarawak Oil Co., Ltd. (Murphy Sarawak), as well as, the Group acquired the 100% shareholding interests of Partex Holding B.V. (Partex) which operated in petroleum business, located in Middle East region. According to the acquisition of Murphy and Partex, the Group has to pay the total considerations for the acquisition of US Dollar 2,130.86 million, and US Dollar 716.16 million, respectively, with the fair value of the acquired identifiable net assets of US Dollar 1,519.70 million, and US Dollar 510.70 million, respectively. The Group's management assesses that the participating interests acquired is the business combination according to the definition under Thai Financial Reporting Standard (TFRS) 3, Business Combinations.

According to TFRS 3, Business Combinations, the Group has to recognize and measure the fair value on the acquisition date of the identifiable assets acquired, liabilities assumed, and the considerations transferred (the value of considerations for the acquisition), and recognize the deferred tax assets or liabilities, and goodwill, as well as disclose relevant information in accordance with the TFRS. The Group enlisted an independent valuer to estimate the fair value of the participating interests acquired. The fair value estimation requires the selection of valuation techniques, and various assumptions, which may vary with individual judgement and experience of the valuer. The information which the valuer obtained and used in the fair value calculation also significantly affects the fair value. As a result, the State Audit Office of the Kingdom of Thailand considers this as a key audit matter.

The State Audit Office of the Kingdom of Thailand performed the following key audit procedures:

1. Examining the Sales and Purchase Agreement of the acquisition of 100% shareholding interests in Murphy Sabah and Murphy Sarawak and the 100% shareholding interests in Partex and inquiring the Group's management to obtain an understanding of the nature and objective of the transaction, as well as significant content, terms, and conditions in the agreement, and evaluating whether the management's

exercise of judgement regarding the acquisition to determine the participating interest is appropriate in accordance with the definition in TFRS 3, Business Combinations.

Examining the evidence of payments and related documents used in transaction recording to assess the appropriateness of the identification of the assets acquired and liabilities assumed, as well as the considerations transferred.

3. Communicating with the auditors of the companies within the Group regarding risks, as well as reviewing their significant audit regarding the recognition and measurement of the identifiable assets, liabilities assumed and the considerations transferred (the value of considerations for the acquisition) on the acquisition date as follows;

3.1 Evaluating the knowledge, capabilities, and objectivity of the independent valuer associated with the preparation of Purchase Price Allocation report.

3.2 Validating the fair value estimation of the identifiable assets acquired and liabilities assumed in the Purchase Price Allocation report prepared by the independent valuer by assessing the appropriateness of the information used in the estimation, as well as the significant assumptions which the independent valuer used in the fair value estimation.

3.3 Evaluating independently by the independent expert from the auditors of the companies within the Group regarding the appropriateness of the fair value valuating techniques and discount rates used in the preparation of Purchase Price Allocation report.

4. Reviewing the relevant presentation and disclosures in accordance with TFRS.

Other Information

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and the Company's financial statements and the auditor's report thereon. Management expects to provide the annual report to the State Audit Office of the Kingdom of Thailand after the date of this auditor's report.

The State Audit Office of the Kingdom of Thailand's opinion on the consolidated and the Company's financial statements does not cover the other information and the State Audit Office of the Kingdom of Thailand will not express any form of assurance conclusion thereon.

In connection with the audit of the consolidated and the Company's financial statements, the State Audit Office of the Kingdom of Thailand's responsibility is to read the other information identified above and consider whether the other information is materially inconsistent with the consolidated and the Company's financial statements or the State Audit Office of the Kingdom of Thailand's knowledge obtained in the audit, or otherwise appears to be materially misstated.

When the State Audit Office of the Kingdom of Thailand reads the annual report, if the State Audit Office of the Kingdom of Thailand concludes that there is a material misstatement therein, the State Audit Office of the Kingdom of Thailand is required to communicate the matter to those charged with governance.

Responsibilities of Management and Those Charged with Governance for the Consolidated and the Company's Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated and the Company's financial statements in accordance with TFRSs, and for such internal control as management determines is necessary to enable the preparation of the consolidated and the Company's financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated and the Company's financial statements, management is 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 management either intend to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's and the Company's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated and the Company's Financial Statements

The State Audit Office of the Kingdom of Thailand's objectives are to obtain reasonable assurance about whether the consolidated and the Company's 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 the State Audit Office of the Kingdom of Thailand 's opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with State Audit Standard Rules and 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 the Company's financial statements.

As part of an audit in accordance with the State Audit Standard Rules and TSAs, the State Audit Office of the Kingdom of Thailand exercises professional judgment and maintain professional skepticism throughout the audit. The State Audit Office of the Kingdom of Thailand also:

Identifies and assesses the risks of material misstatement of the consolidated and the Company's
financial statements, whether due to fraud or error, designs and performs audit procedures responsive to those risks,
and obtains audit evidence that is sufficient and appropriate to provide a basis for the State Audit Office

of the Kingdom of Thailand's 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.

- Obtains 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.
- Evaluates the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Concludes on the appropriateness of management's 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 the State Audit Office of the Kingdom of Thailand concludes that a material uncertainty exists, the State Audit Office of the Kingdom of Thailand is required to draw attention in the auditor's report of the State Audit Office of the Kingdom of Thailand to the related disclosures in the consolidated and the Company's financial statements or, if such disclosures are inadequate, to modify the State Audit Office of the Kingdom of Thailand's opinion. The State Audit Office of the Kingdom of Thailand's conclusions are based on the audit evidence obtained up to the date of the auditor's report of the State Audit Office of the Kingdom of Thailand. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluates the overall presentation, structure and content of the consolidated and the Company's financial statements, including the disclosures, and whether the consolidated and the Company's financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtains 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. The State Audit Office of the Kingdom of Thailand is responsible for the direction, supervision and performance of the group audit. The State Audit Office of the Kingdom of Thailand remains solely responsible for the State Audit Office of the Kingdom of Thailand's opinion.

The State Audit Office of the Kingdom of Thailand communicates with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that the State Audit Office of the Kingdom of Thailand identifies during the State Audit Office of the Kingdom of Thailand's audit.

(Unofficial Translation)

Auditor's Report

The State Audit Office of the Kingdom of Thailand also provides those charged with governance with a statement that the State Audit Office of the Kingdom of Thailand has complied with the State Audit Standard Rules and relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on

communicate with them all relationships and other matters that may reasonably be thought to bear on

the State Audit Office of the Kingdom of Thailand's independence, and where applicable, related

safeguards.

From the matters communicated with those charged with governance, the State Audit Office of

the Kingdom of Thailand determines those matters that were of most significance in the audit of

the consolidated and the Company's financial statements of the current period and are therefore the key

audit matters. The State Audit Office of the Kingdom of Thailand describes these matters in

the State Audit Office of the Kingdom of Thailand's report unless law or regulation precludes public

disclosure about the matter or when, in extremely rare circumstances, the State Audit Office of

the Kingdom of Thailand determines that a matter should not be communicated in the State Audit

Office of the Kingdom of Thailand's report because the adverse consequences of doing so would

reasonably be expected to outweigh the public interest benefits of such communication.

(Signed)

Pasutnicha Jumpathes (Pasutnicha Jumpathes)

Deputy Auditor General

(Signed)

Buddhachard Tanjong (Buddhachard Tanjong) Director of Financial and Procurement Audit Office No. 15

State Audit Office of the Kingdom of Thailand February 18, 2020

Financial Statements

Statements of Financial Position

PTT Exploration and Production Public Company Limited and Subsidiaries As at December 31, 2019

Consolidated

			Unit: US Dollar			Unit: Baht	
	<u>Notes</u>	<u>December 31, 2019</u>	December 31, 2018 (Restated)	January 1, 2018 (Brought forward) (Restated)	<u>December 31, 2019</u>	December 31, 2018 (Restated)	January 1, 2018 (Brought forward) (Restated)
Assets				(Nestated)			(Nestateu)
Current Assets							
Cash and cash equivalents	9	2,822,897,310	3,180,095,315	1,512,181,292	85,121,635,618	103,193,560,790	49,419,466,004
Short-term investments	10	200,000,000	820,529,928	2,955,491,269	6,030,799,292	26,626,058,762	96,588,154,097
Investments in trading securities	11	213,702,922	70,550,255	207,592	6,443,997,154	2,289,343,959	6,784,308
Investments in available-for-sale securities	12	-	10,450,000	-	-	339,100,750	-
Account receivable - parent company	13, 18.2	534,837,021	637,129,582	566,568,454	16,127,473,638	20,674,748,268	18,515,974,561
Trade accounts receivable	14	258,925,878	87,250,589	109,434,304	7,807,650,023	2,831,266,994	3,576,412,993
Other accounts receivable		121,500,856	471,385,978	78,595,277	3,663,730,318	15,296,380,912	2,568,562,127
Inventories	15	32,094,999	23,401,706	19,186,294	967,792,479	759,381,456	627,025,615
Materials and supplies	16	298,241,328	258,824,758	298,063,802	8,993,167,938	8,398,820,043	9,740,997,301
Current tax assets		55,338,391	44,251,011	89,006,743	1,668,672,379	1,435,933,751	2,908,820,568
Other current assets							
Working capital from co-venturers		60,704,038	23,136,199	46,919,770	1,830,469,347	750,765,770	1,533,380,944
Accrued interests receivable		7,233,299	18,743,848	19,793,398	218,112,866	608,234,720	646,866,335
Financial derivative assets	27	12,342,074	44,760,255	720,444	372,162,847	1,452,462,783	23,544,769
Others	17	95,472,046	65,558,388	68,666,897	2,878,863,203	2,127,357,369	2,244,095,699
Total Current Assets		4,713,290,162	5,756,067,812	5,764,835,536	142,124,527,102	186,783,416,327	188,400,085,321
Non-current Assets							
Investments in available-for-sale securities	12	524,264	556,840	713,347	15,808,658	18,069,366	23,312,828
Investments in associates	19.3	227,626,116	219,796,559	212,644,091	6,863,837,299	7,132,361,802	6,949,403,099
Investments in joint ventures	19.4	225,370,160	17,412,037	18,721,333	6,795,811,001	565,017,696	611,830,253
Other long-term investments	20	345,337	223,807	11,307	10,413,300	7,262,505	369,529
Long-term loans to related parties	18.4	86,055,526	95,495,279	110,497,369	2,594,918,018	3,098,805,811	3,611,154,952
Property, plant and equipment	21	10,661,984,455	8,203,148,334	8,034,374,696	321,501,441,133	266,190,788,685	262,570,703,080
Goodwill	22	2,060,856,097	1,244,242,269	1,167,584,174	62,143,047,441	40,375,453,276	38,157,717,250
Intangible assets	23	131,976,248	82,092,341	83,988,319	3,979,611,307	2,663,882,715	2,744,814,987
Exploration and evaluation assets	24	2,639,486,065	3,071,909,369	3,066,535,679	79,591,055,959	99,682,947,548	100,217,187,484
Deferred tax assets	25.1	961,729,427	462,550,222	416,116,927	28,999,985,605	15,009,674,962	13,599,080,791
Rights to receive reimbursement from							
decommissioning funds		237,264,583	161,721,008	131,356,153	7,154,475,393	5,247,819,635	4,292,839,069
Other non-current assets							
Prepaid expenses	26	17,871,345	19,870,031	20,829,912	538,892,493	644,779,168	680,740,553
Deferred remuneration under agreement		11,302,332	13,060,045	14,817,758	340,810,484	423,796,265	484,257,844
Financial derivative assets	27	83,677,515	22,098,578	19,460,308	2,523,211,486	717,095,155	635,980,642
Others	28	142,142,400	113,877,349	70,095,848	4,286,161,428	3,695,300,906	2,290,796,318
Total Non-current Assets		17,488,211,870	13,728,054,068	13,367,747,221	527,339,481,005	445,473,055,495	436,870,188,679
Total Assets		22,201,502,032	19,484,121,880	19,132,582,757	669,464,008,107	632,256,471,822	625,270,274,000

Notes to financial statements are an integral part of these financial statements.

(Signed) Phongsthorn Thavisin (Phongsthorn Thavisin) President and Chief Executive Officer (Signed) Jaroonsri Wankertphon (Jaroonsri Wankertphon) Senior Vice President, Accounting Division

Statements of Financial Position

PTT Exploration and Production Public Company Limited and Subsidiaries As at December 31, 2019

Consolidated

			Unit: US Dollar		Unit: Baht				
	Notes	December 31, 2019	December 31, 2018	January 1, 2018	December 31, 2019	December 31, 2018	January 1, 2018		
			(Restated)	(Brought forward)		(Restated)	(Brought forward)		
				(Restated)			(Restated)		
Liabilities and Equity									
Current Liabilities									
Trade accounts payable		107,064,556	102,655,689	115,352,784	3,228,424,080	3,331,159,471	3,769,834,227		
Working capital to co-venturers		12,439,988	17,578,681	15,640,555	375,115,360	570,425,258	511,147,634		
Current portion of long-term financial liabilities	29	18,281,361	407,014,532	399,710,434	551,256,111	13,207,553,411	13,062,902,055		
Accrued expenses		749,645,953	596,428,200	490,905,549	22,604,819,279	19,353,988,336	16,043,240,286		
Accrued interests payable		19,774,707	16,274,462	24,150,871	596,286,435	528,103,567	789,272,508		
Income tax payable		862,953,072	678,133,387	406,005,018	26,021,483,863	22,005,314,869	13,268,614,806		
Short-term provisions	30	131,500,284	133,674,387	63,423,986	3,965,259,111	4,337,711,471	2,072,753,782		
Deferred considerations acquired through									
business acquisition		-	465,971,435	-	-	15,120,695,026	-		
Financial derivative liabilities	27	15,213,837	10,685,306	25,521,108	458,757,976	346,736,397	834,053,133		
Other current liabilities		133,969,338	57,364,252	60,545,450	4,039,710,172	1,861,456,007	1,978,679,428		
Total Current Liabilities		2,050,843,096	2,485,780,331	1,601,255,755	61,841,112,387	80,663,143,813	52,330,497,859		
Non-current Liabilities							_		
Debentures	29	2,704,746,265	1,537,766,538	1,938,720,566	81,558,909,291	49,900,266,673	63,359,158,876		
Long-term loans	29	718,674,613	985,476	568,730,791	21,670,911,741	31,978,536	18,586,641,706		
Deferred tax liabilities	25.1	1,358,709,648	781,885,385	890,888,365	40,970,525,919	25,372,049,810	29,115,045,481		
Provision for employee benefits	31	245,248,060	135,263,864	123,772,502	7,395,204,113	4,389,278,210	4,044,996,125		
Provision for decommissioning costs	32	2,967,512,233	2,243,654,819	2,275,432,888	89,482,353,377	72,806,223,203	74,363,225,090		
Provision for remuneration for the renewal of									
petroleum production	33	190,757,774	238,661,335	195,015,188	5,752,109,238	7,744,520,345	6,373,274,452		
Other non-current liabilities									
Deferred income		5,035,540	4,957,352	7,359,738	151,841,653	160,865,239	240,522,954		
Financial derivative liabilities		-	-	7,458,980	-	-	243,766,267		
Others	34	118,801,033	49,767,464	22,401,371	3,582,325,936	1,614,945,891	732,097,260		
Total Non-current Liabilities		8,309,485,166	4,992,942,233	6,029,780,389	250,564,181,268	162,020,127,907	197,058,728,211		
Total Liabilities		10,360,328,262	7,478,722,564	7,631,036,144	312,405,293,655	242,683,271,720	249,389,226,070		
Equity							-		
Share capital									
Authorized share capital									
3,969,985,400 ordinary shares of Baht 1 each	38				3,969,985,400	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	150,683,762	3,969,985,400	3,969,985,400	3,969,985,400		
Share premium		3,439,036,612	3,439,036,612	3,439,036,612	105,417,619,764	105,417,619,764	105,417,619,764		
Subordinated capital debentures	36	187,434,503	1,154,687,532	1,154,811,834	6,018,033,688	38,231,753,921	38,234,354,686		
Retained earnings									
Appropriated									
Legal reserve	39	15,048,319	15,048,319	15,048,319	396,998,540	396,998,540	396,998,540		
Reserve for expansion		431,231,212	431,231,212	431,231,212	16,900,000,000	16,900,000,000	16,900,000,000		
Unappropriated		7,630,675,250	6,847,836,815	6,339,799,664	247,150,263,826	222,900,331,939	206,375,726,076		
Other components of equity		(12,935,888)	(33,124,936)	(29,064,790)	(22,794,186,766)	1,756,510,538	4,586,363,464		
Total Equity		11,841,173,770	12,005,399,316	11,501,546,613	357,058,714,452	389,573,200,102	375,881,047,930		
Total Liabilities and Equity		22,201,502,032	19,484,121,880	19,132,582,757	669,464,008,107	632,256,471,822	625,270,274,000		



Statements of Financial Position

PTT Exploration and Production Public Company Limited and Subsidiaries As at December 31, 2019

The Company

		Unit: U	S Dollar	Unit: Baht				
	Notes	<u>December 31, 2019</u>	<u>December 31, 2018</u>	<u>December 31, 2019</u>	<u>December 31, 2018</u>			
Assets Assets								
Current Assets								
Cash and cash equivalents	9	715,768,020	462,093,407	21,583,266,339	14,994,853,673			
Short-term investments	10	200,000,000	462,699,928	6,030,799,292	15,014,535,178			
Investments in trading securities	11	210,414	70,541,991	6,344,815	2,289,075,812			
Investments in available-for-sale securities	12	-	10,450,000	-	339,100,750			
Account receivable - parent company	13,18.2	353,316,880	399,091,972	10,653,915,949	12,950,467,667			
Trade accounts receivable	14	1,185,691	987,080	35,753,312	32,030,591			
Other accounts receivable		72,758,047	434,624,804	2,193,945,891	14,103,502,101			
Short-term loans to related party	18.3	362,000,567	1,175,450,898	10,915,763,811	38,143,184,822			
Inventories	15	5,329,916	4,271,210	160,718,274	138,600,061			
Materials and supplies	16	98,727,775	101,402,073	2,977,036,991	3,290,480,304			
Current tax assets		15,036,646	24,436,122	453,414,956	792,948,075			
Other current assets								
Working capital from co-venturers		7,845,461	2,883,927	236,572,005	93,582,934			
Accrued interests receivable		280,983,685	48,917,142	8,472,781,050	1,587,353,078			
Financial derivative assets	27	253,020	5,638,411	7,629,569	182,965,483			
Others	17	63,541,724	30,755,680	1,916,036,937	998,016,666			
Total Current Assets		2,176,957,846	3,234,244,645	65,643,979,191	104,950,697,195			
Non-current Assets								
Investments in associates	19.3	25,577,427	25,577,427	771,261,656	829,983,238			
Investments in subsidiaries	19.2	924,403,328	795,711,719	27,874,454,685	25,820,712,047			
Other long-term investment	20	47,837	11,307	1,442,486	366,916			
Long-term loans to related parties	18.4	6,410,306,980	5,418,528,669	193,296,373,984	175,830,348,003			
Property, plant and equipment	21	3,305,867,193	3,782,063,076	99,685,107,639	122,727,313,550			
Goodwill	22	75,157,587	75,157,587	2,266,301,616	2,438,851,117			
Intangible assets	23	78,178,825	71,600,170	2,357,404,014	2,323,413,531			
Exploration and evaluation assets	24	-	149,886,527	-	4,863,792,694			
Deferred tax assets	25.1	639,817,402	315,463,776	19,293,051,670	10,236,746,710			
Other non-current assets								
Deferred remuneration under agreement		11,302,332	13,060,045	340,810,484	423,796,265			
Financial derivative assets	27	64,096,092	22,098,578	1,932,753,308	717,095,155			
Others	28	11,674,428	11,923,493	352,030,635	386,915,351			
Total Non-current Assets		11,546,429,431	10,681,082,374	348,170,992,177	346,599,334,577			
Total Assets		13,723,387,277	13,915,327,019	413,814,971,368	451,550,031,772			



Statements of Financial Position

PTT Exploration and Production Public Company Limited and Subsidiaries As at December 31, 2019

The Company

		Unit: U	S Dollar	Unit: Baht			
	<u>Notes</u>	<u>December 31, 2019</u>	<u>December 31, 2018</u>	<u>December 31, 2019</u>	<u>December 31, 2018</u>		
Liabilities and Equity							
Current Liabilities							
Trade accounts payable		23,474,448	30,527,462	707,848,423	990,611,039		
Working capital to co-venturers		1,145,615	1,110,819	34,544,868	36,045,896		
Current portion of long-term financial liabilities	29	298,557	407,014,532	9,002,691	13,207,553,411		
Accrued expenses		285,824,345	288,067,227	8,618,746,275	9,347,733,288		
Accrued interests payable		3,064,423	5,145,915	92,404,594	166,984,084		
Income tax payable		679,934,364	522,663,759	20,502,738,410	16,960,351,476		
Short-term provisions	30	97,890,430	93,671,595	2,951,787,688	3,039,627,557		
Deferred considerations acquired through business acquisition		_	465,971,435	_	15,120,695,026		
Financial derivative liabilities	27	12,026,567	9,615,920	362,649,045	312,034,992		
Other current liabilities		53,898,088	29,716,745	1,625,242,763	964,303,412		
Total Current Liabilities		1,157,556,837	1,853,505,409	34,904,964,757	60,145,940,181		
Non-current Liabilities							
Debentures	29	377,762,214	351,006,573	11,391,040,460	11,390,104,509		
Long-term loans	29	761,949	985,476	22,975,809	31,978,536		
Provision for employee benefits	31	179,375,616	121,503,357	5,408,891,691	3,942,763,602		
Provision for decommissioning costs	32	1,571,621,696	1,370,656,206	47,390,675,072	44,477,564,365		
Provision for remuneration for the renewal of petroleum production	33	174,922,380	238,401,631	5,274,608,833	7,736,093,019		
Other non-current liabilities		,0==,000	200, 10 1,00 1	0,=: :,000,000	.,,,		
Deferred income		3,044,711	3,503,193	91,810,205	113,678,016		
Others	34	25,281,990	23,048,355	762,353,022	747,915,257		
Total Non-current Liabilities		2,332,770,556	2,109,104,791	70,342,355,092	68,440,097,304		
Total Liabilities		3,490,327,393	3,962,610,200	105,247,319,849	128,586,037,485		
Equity							
Share capital							
Authorized share capital							
3,969,985,400 ordinary shares of Baht 1 each	38			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	36	156,570,483	301,226,483	4,981,992,349	9,661,771,205		
Retained earnings							
Appropriated							
Legal reserve	39	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		6,012,419,398	5,597,858,914	200,224,792,852	187,500,874,929		
Other components of equity		28,070,098	17,631,517	(23,323,737,386)	(883,255,551)		
Total Equity		10,233,059,884	9,952,716,819	308,567,651,519	322,963,994,287		
Total Liabilities and Equity		13,723,387,277	13,915,327,019	413,814,971,368	451,550,031,772		



Statements of Income

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

		Unit: US	S Dollar	Unit: Baht				
	<u>Notes</u>	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>			
Revenues								
Sales		6,046,416,158	5,202,809,857	187,434,256,385	168,327,503,985			
Revenue from pipeline transportation	n	116,396,137	107,563,734	3,618,478,463	3,481,649,960			
Other income								
Gain on foreign exchange		108,597,530	-	3,364,162,379	-			
Gain on financial derivatives		-	13,966,633	-	539,300,427			
Interest income		86,234,821	83,352,666	2,691,774,670	2,691,351,050			
Other income		55,390,651	50,784,060	1,713,008,987	1,647,110,915			
Total Revenues		6,413,035,297	5,458,476,950	198,821,680,884	176,686,916,337			
Expenses								
Operating expenses		750,682,327	645,084,154	23,174,701,610	20,855,434,660			
Exploration expenses		128,097,990	45,685,474	3,950,741,535	1,481,056,817			
Administrative expenses	18.1	383,776,512	290,233,637	11,870,413,978	9,404,564,362			
Petroleum royalties		546,334,209	469,663,029	16,944,730,977	15,204,940,727			
Depreciation, depletion and amortiza	ation	2,026,055,587	1,848,510,539	62,810,841,149	59,809,002,872			
Other expenses								
Loss on foreign exchange		-	18,632,091	-	624,229,740			
Loss on financial derivatives		109,399,724	-	3,405,789,423	-			
Other expenses		-	57,768,001	-	1,886,227,194			
Finance costs		234,978,741	238,564,895	7,290,639,862	7,707,126,230			
Total Expenses		4,179,325,090	3,614,141,820	129,447,858,534	116,972,582,602			
Share of profit of associates and joint ve	entures	12,351,839	7,932,268	380,419,707	256,247,378			
Profit before income taxes		2,246,062,046	1,852,267,398	69,754,242,057	59,970,581,113			
Income taxes	25.2	(676,998,045)	(732,658,187)	(20,951,704,151)	(23,764,290,782)			
Profit for the year		1,569,064,001	1,119,609,211	48,802,537,906	36,206,290,331			
Earnings per share								
Basic earnings per share	41	0.38	0.27	11.72	8.69			

Statements of Comprehensive Income

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

		Unit: U	S Dollar	Unit: Baht			
<u>No</u>	<u>tes</u>	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>		
Profit for the year		1,569,064,001	1,119,609,211	48,802,537,906	36,206,290,331		
Other comprehensive income (loss)		.,,	.,,,	,,,	,,		
Items that will be reclassified subsequently to profit or loss							
Exchange differences on translating financial statements	5	3,666,799	(4,808,840)	(2,296,043,900)	(498,522,049)		
Loss on remeasuring available-for-sale securities		(38,246)	(150,837)	(1,306,085)	(5,158,138)		
Income taxes relating to remeasuring of available-for-sale securities		1,134	(1,134)	37,087	(37,087)		
Gain on cash flow hedges		15,188,878	705,714	455,066,446	15,136,434		
Income taxes relating to cash flow hedges		(3,037,776)	(141,143)	(92,552,256)	(3,027,287)		
Share of other comprehensive income of associates and joint ventures		4,408,259	336,094	137,371,586	10,828,716		
Total Items that will be reclassified subsequently to profit or loss		20,189,048	(4,060,146)	(1,797,427,122)	(480,779,411)		
Items that will not be reclassified subsequently to profit or loss							
Exchange differences on translating financial statements		-	-	(22,753,270,182)	(2,349,073,515)		
Loss from changes in actuarial assumptions of							
provision for employee benefits 3	1	(26,651,682)	(3,702,983)	(805,495,659)	(121,107,966)		
Income taxes from changes in actuarial assumptions of							
provision for employee benefits		12,021,516	774,275	363,224,671	25,323,046		
Share of other comprehensive loss of associates and joint ventures		(30,753)	-	(940,226)	-		
Total Items that will not be reclassified subsequently to profit or loss	s	(14,660,919)	(2,928,708)	(23,196,481,396)	(2,444,858,435)		
Other comprehensive income (loss) for the year - net of tax		5,528,129	(6,988,854)	(24,993,908,518)	(2,925,637,846)		
Total comprehensive income for the year		1,574,592,130	1,112,620,357	23,808,629,388	33,280,652,485		





Statements of Income

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

	Unit: U	S Dollar	Unit: Baht				
Notes	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>			
Revenues							
Sales	3,239,250,217	2,832,497,051	100,507,848,760	91,712,945,783			
Other income							
Gain on foreign exchange	48,348,320	-	1,503,434,335	-			
Gain on financial derivatives	-	4,659,465	-	166,844,469			
Interest income	315,066,394	92,885,998	9,775,532,625	3,019,858,698			
Other income	144,354,658	115,177,833	4,463,376,042	3,723,159,334			
Dividends received from related parties	46,175,204	66,297,020	1,412,601,869	2,167,208,482			
Total Revenues	3,793,194,793	3,111,517,367	117,662,793,631	100,790,016,766			
Expenses							
Operating expenses	279,559,667	235,458,276	8,647,466,649	7,628,665,176			
Exploration expenses	259,142	11,874,628	7,929,998	371,826,640			
Administrative expenses 18.1	376,337,875	283,838,494	11,644,182,377	9,192,753,402			
Petroleum royalties	404,906,293	354,062,131	12,563,481,576	11,464,123,929			
Depreciation, depletion and amortization	1,050,260,840	916,664,049	32,585,816,321	29,724,240,162			
Other expenses							
Loss on foreign exchange	-	11,539,391	-	395,104,181			
Loss on financial derivatives	73,572,180	-	2,302,963,481	-			
Finance costs	108,285,400	131,782,407	3,369,991,182	4,266,270,221			
Total Expenses	2,293,181,397	1,945,219,376	71,121,831,584	63,042,983,711			
Profit before income taxes	1,500,013,396	1,166,297,991	46,540,962,047	37,747,033,055			
Income taxes 25.2	(364,292,665)	(354,782,123)	(11,265,866,207)	(11,471,397,351)			
Profit for the year	1,135,720,731	811,515,868	35,275,095,840	26,275,635,704			
Earnings per share							
Basic earnings per share 41	0.28	0.20	8.80	6.50			

Statements of Comprehensive Income

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

	Unit: U	S Dollar	Unit:	Baht
<u>Note</u>	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Profit for the year	1,135,720,731	811,515,868	35,275,095,840	26,275,635,704
Other comprehensive income (loss)				
Items that will be reclassified subsequently to profit or loss				
(Loss) gain on remeasuring available-for-sale securities	(5,670)	5,670	(185,437)	185,437
Income taxes relating to remeasuring of available-for-sale securities	1,134	(1,134)	37,087	(37,087)
Gain on cash flow hedges	13,053,896	705,714	392,389,523	15,136,434
Income taxes relating to cash flow hedges	(2,610,779)	(141,143)	(79,452,826)	(3,027,287)
Total Items that will be reclassified subsequently to profit or loss	10,438,581	569,107	312,788,347	12,257,497
Item that will not be reclassified subsequently to profit or loss				
Exchange differences on translating financial statements	-	-	(22,753,270,182)	(2,349,073,515)
Loss from changes in actuarial assumptions of				
provision for employee benefits 31	(24,116,038)	(184,084)	(728,863,049)	(6,020,448)
Income taxes from changes in actuarial assumptions of				
provision for employee benefits	12,058,019	92,042	364,431,524	3,010,224
Total Items that will not be reclassified subsequently to profit or loss	(12,058,019)	(92,042)	(23,117,701,707)	(2,352,083,739)
Other comprehensive income (loss) for the year - net of tax	(1,619,438)	477,065	(22,804,913,360)	(2,339,826,242)
Total comprehensive income for the year	1,134,101,293	811,992,933	12,470,182,480	23,935,809,462



(Unofficial Translation)

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

															Unit: US Dollar
										Other con	nponents of e	quity			
						Retained earni	ngs		0	ther comprehensive	income (loss	5)			
				-				Exchange		Income taxes			Share of other		
								differences		relating to		Income taxes	comprehensive		
		Issued and		Subordinated				on translating		remeasuring of		relating to	income	Total other	
		paid-up	Share	capital	Legal	Reserve for		financial	Available-for-sale	available-for-sale	Cash flow	cash flow	of associates	components	Total
<u> </u>	Note	share capital	premium	debentures	reserve	expansion	Unappropriated	statements	securities	securities	hedges	hedges	and joint ventures	of equity	equity
Balance - as at January 1, 2018		150,683,762	3,439,036,612	1,154,811,834	15,048,319	431,231,212	6,354,905,664	(49,172,853)	(567,987)	-	21,328,012	(4,265,602)	3,613,640	(29,064,790)	11,516,652,613
Reclassification and adjustment	5	-	-		-	-	(15,106,000)	-	-	-	-	-	-	-	(15,106,000)
Reclassified and adjusted balance - as at January 1, 2018		150,683,762	3,439,036,612	1,154,811,834	15.048.319	431,231,212	6,339,799,664	(49,172,853)	(567,987)		21,328,012	(4,265,602)	3,613,640	(29,064,790)	11,501,546,613
Changes in equity for the year		100,000,102	0,400,000,012	1,104,011,004	10,040,010	401,201,212	0,000,100,004	(40,112,000)	(001,001)		21,020,012	(4,200,002)	0,010,040	(20,004,100)	11,001,040,010
Interest expenses for															
subordinated capital debentures		_	_	_	_	_	(57,696,014)	_	_		_	_	_		(57,696,014)
Income tax for subordinated							(01,000,011)								(01,000,011)
capital debentures		_	_	_	_	-	4,754,733	_	_	_	_	_	-		4,754,733
Finance cost from issuance of							.,,								1,1 0 1,1 00
subordinated capital debentures		-		(124,302)			-		-	-	_	_	-		(124,302)
Dividends paid				-			(555,702,071)		-	-	-	-	_		(555,702,071)
Profit for the year				_			1,119,609,211		-	-	-	-	_		1,119,609,211
Other comprehensive income (loss)							, , , , , , , ,								, , , , , , ,
for the year		-	-	-	-	-	(2,928,708)	(4,808,840)	(150,837)	(1,134)	705,714	(141,143)	336,094	(4,060,146)	(6,988,854)
Balance - as at December 31, 2018	-	150,683,762	3,439,036,612	1,154,687,532	15,048,319	431,231,212	6,847,836,815	(53,981,693)	(718,824)	(1,134)	22,033,726	(4,406,745)	3,949,734	(33,124,936)	12,005,399,316



PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

														Unit: US Dollar
									Other com	ponents of eq	uity			
					Retained earnir	ngs		Ot	her comprehensive	income (loss)				
	Issued and	Share	Subordinated capital	Legal	Reserve for		Exchange differences on translating financial	Available-for-sale	Income taxes relating to remeasuring of available-for-sale	Cash flow	Income taxes relating to cash flow	Share of other comprehensive income of associates and	Total other	Total
Notes	share capital	premium	debentures	reserve	expansion	Unappropriated	statements	securities	securities	hedges	hedges	joint ventures	of equity	equity
Balance - as at January 1, 2019 Reclassification and adjustment 5	150,683,762	3,439,036,612	1,154,687,532	15,048,319 -	431,231,212	6,862,942,815 (15,106,000)	(53,981,693) -	(718,824) -	(1,134)	22,033,726	(4,406,745)	3,949,734	(33,124,936)	12,020,505,316 (15,106,000)
Reclassified and adjusted balance - as at January 1, 2019 Changes in equity for the year	150,683,762	3,439,036,612	1,154,687,532	15,048,319	431,231,212	6,847,836,815	(53,981,693)	(718,824)	(1,134)	22,033,726	(4,406,745)	3,949,734	(33,124,936)	12,005,399,316
Deferred income tax of 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 36	-		(967,253,029)	-	-	(23,593,066)	-	-	-	-	-	-	-	(990,846,095)
Income tax for subordinated														
capital debentures	-		-		-	3,073,806	-	-	-	-	-	-	-	3,073,806
Dividends paid 44	-		-		-	(697,760,493)	•	-	-		•	-	-	(697,760,493)
Profit for the year	•		•		•	1,569,064,001	•	•	-	-	•	-	-	1,569,064,001
Other comprehensive income (loss)														
for the year	-			•		(14,660,919)	3,666,799	(38,246)	1,134	15,188,878	(3,037,776)	4,408,259	20,189,048	5,528,129
Balance - as at December 31, 2019	150,683,762	3,439,036,612	187,434,503	15,048,319	431,231,212	7,630,675,250	(50,314,894)	(757,070)	-	37,222,604	(7,444,521)	8,357,993	(12,935,888)	11,841,173,770

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

															Unit: Baht
										Other co	mponents of e	quity			
						Retained earnin	gs		0	ther comprehensive	e income (loss)			
								Exchange		Income taxes			Share of other		
								differences		relating to		Income taxes	comprehensive		
	Issued	l and		Subordinated				on translating		remeasuring of		relating to	income	Total other	
	paid-	-up	Share	capital	Legal	Reserve for		financial	Available-for-sale	available-for-sale	Cash flow	cash flow	of associates	components	Total
Not	te share c	apital	premium	debentures	reserve	expansion	Unappropriated	statements	securities	securities	hedges	hedges	and joint ventures	of equity	equity
Balance - as at January 1, 2018	3,969,9	85,400	105,417,619,764	38,234,354,686	396,998,540	16,900,000,000	206,909,233,643	3,736,347,304	(19,592,357)	•	804,505,545	(97,007,861)	122,281,144	4,546,533,775	376,374,725,808
Reclassification and adjustment 5		-	-	-	-	-	(533,507,567)	39,829,689	-	-	-	-	-	39,829,689	(493,677,878)
Reclassified and adjusted balance - as at January 1, 2018	3.969.9	05 400	105,417,619,764	38.234.354.686	396.998.540	16,900,000,000	206,375,726,076	3,776,176,993	(19,592,357)		804,505,545	(97,007,861)	122,281,144	4,586,363,464	375,881,047,930
Changes in equity for the year	3,303,30	05,400	105,417,019,704	30,234,334,000	390,990,340	10,900,000,000	200,313,120,010	3,110,110,993	(19,392,337)	•	004,303,343	(97,007,001)	122,201,144	4,300,303,404	373,001,047,930
Interest expenses for															
subordinated capital debentures		_	-	_	_		(1,876,708,776)	_	_	_	_		_		(1,876,708,776)
Income tax for subordinated							(1,212,123,112)								(1,010,100,110)
capital debentures		-	-	-	-	-	154,780,651	-	-	-	-		-		154,780,651
Finance cost from issuance of															
subordinated capital debentures		-	-	(2,600,765)	-		-	-	-	-	-	-	-		(2,600,765)
Dividends paid		-	-	-	-	-	(17,863,971,423)	-	-	-	-	-	-		(17,863,971,423)
Profit for the year		-	-	-	-	-	36,206,290,331	-	-	-	-	-	-	-	36,206,290,331
Other comprehensive income (loss)															
for the year		-	-	-	-	-	(95,784,920)	(2,847,595,564)	(5,158,138)	(37,087)	15,136,434	(3,027,287)	10,828,716	(2,829,852,926)	(2,925,637,846)
Balance - as at December 31, 2018	3,969,9	85,400	105,417,619,764	38,231,753,921	396,998,540	16,900,000,000	222,900,331,939	928,581,429	(24,750,495)	(37,087)	819,641,979	(100,035,148)	133,109,860	1,756,510,538	389,573,200,102

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

															Unit: Baht
										Other o	components of e	quity			
						Retained earning	ıs		(Other comprehensiv	e income (loss)				
								Exchange		Income taxes			Share of other		
								differences		relating to		Income taxes	comprehensive		
		Issued and		Subordinated				on translating		remeasuring of		relating to	income	Total other	
		paid-up	Share	capital	Legal	Reserve for		financial	Available-for-sale		Cash flow	cash flow	of associates	components	Total
Ŋ	lotes	share capital	premium	debentures	reserve	expansion	Unappropriated	statements	securities	securities	hedges	hedges	and joint ventures	of equity	equity
Balance - as at January 1, 2019		3,969,985,400	105,417,619,764	38,231,753,921	396,998,540	16,900,000,000	223,433,839,506	885,261,033	(24,750,495)	(37,087)	819,641,979	(100,035,148)	133,109,860	1,713,190,142	390,063,387,273
Reclassification and adjustment	5	-	-	-	-	-	(533,507,567)	43,320,396	-	-	-	-	-	43,320,396	(490,187,171)
Reclassified and adjusted balance - as at January 1, 2019 Changes in equity for the year		3,969,985,400	105,417,619,764	38,231,753,921	396,998,540	16,900,000,000	222,900,331,939	928,581,429	(24,750,495)	(37,087)	819,641,979	(100,035,148)	133,109,860	1,756,510,538	389,573,200,102
Deferred income tax of 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 Income tax for subordinated	36	•	•	(32,213,720,233)		-	(716,290,408)		•	•		٠	-	-	(32,930,010,641)
capital debentures			-	-			94,437,501			-			-	-	94,437,501
Dividends paid	44		-	-		-	(21,834,529,501)		-	-			-	-	(21,834,529,501)
Profit for the year			-				48,802,537,906		-	-			-	-	48,802,537,906
Other comprehensive income (loss)															
for the year			-				(443,211,214)	(25,049,314,082)	(1,306,085)	37,087	455,066,446	(92,552,256)	137,371,586	(24,550,697,304)	(24,993,908,518)
Balance - as at December 31, 2019	9	3,969,985,400	105,417,619,764	6,018,033,688	396,998,540	16,900,000,000	247,150,263,826	(24,120,732,653)	(26,056,580)		1,274,708,425	(192,587,404)	270,481,446	(22,794,186,766)	357,058,714,452

Statements of Changes in Equity

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

												Unit: US Dollar
								Other comp	onents of equi	ty		
					Retained earnir	ngs	Otl	her comprehensive i	ncome (loss)			
								Income taxes				
								relating to		Income taxes		
	Issued and		Subordinated					remeasuring of		relating to	Total other	
	paid-up	Share	capital	Legal	Reserve for		Available-for-sale	available-for-sale	Cash flow	cash flow	components	Total
	share capital	premium	debentures	reserve	expansion	Unappropriated	securities	securities	hedges	hedges	of equity	equity
Balance - as at January 1, 2018	150,683,762	3,439,036,612	301,226,483	15,048,319	431,231,212	5,356,440,194	•	•	21,328,012	(4,265,602)	17,062,410	9,710,728,992
Changes in equity for the year												
Interest expenses for subordinated capital debentures	-	-	-	-	-	(17,404,632)	-	-	-	-	-	(17,404,632)
Income tax for subordinated capital debentures	-	-	-	-	-	3,101,597	-	-	-	-	-	3,101,597
Dividends paid	-	-	-	-	-	(555,702,071)	-	-	-	-	-	(555,702,071)
Profit for the year	-	-	-	-	-	811,515,868	-	-	-	-	-	811,515,868
Other comprehensive income (loss) for the year	-	<u>-</u>	-			(92,042)	5,670	(1,134)	705,714	(141,143)	569,107	477,065
Balance - as at December 31, 2018	150,683,762	3,439,036,612	301,226,483	15,048,319	431,231,212	5,597,858,914	5,670	(1,134)	22,033,726	(4,406,745)	17,631,517	9,952,716,819

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

												Unit: US Dollar
								Other comp	onents of equ	ity		
					Retained earning	ngs	Other comprehensive income (loss)					
								Income taxes				
								relating to		Income taxes	-	
	Issued and		Subordinated					remeasuring of		relating to	Total other	
	paid-up	Share	capital	Legal	Reserve for		Available-for-sale	available-for-sale	Cash flow	cash flow	components	Total
Notes	share capital	premium	debentures	reserve	expansion	Unappropriated	securities	securities	hedges	hedges	of equity	equity
Balance - as at January 1, 2019	150,683,762	3,439,036,612	301,226,483	15,048,319	431,231,212	5,597,858,914	5,670	(1,134)	22,033,726	(4,406,745)	17,631,517	9,952,716,819
Changes in equity for the year												
Interest expenses for subordinated capital debentures	-	-	-	-	-	(13,632,287)	-	-	-	-	-	(13,632,287)
Redemption of subordinated capital debentures 36	-	-	(144,656,000)	-	-	(649,000)	-	-	-	-	-	(145,305,000)
Income tax for subordinated capital debentures	-	-	-	-	-	2,939,552	-	-	-	-	-	2,939,552
Dividends paid 44	-	-	-	-	-	(697,760,493)	-	-	-	-	-	(697,760,493)
Profit for the year	-	-	-	-	-	1,135,720,731	-	-	-	-	-	1,135,720,731
Other comprehensive income (loss) for the year	-	-	-	-	-	(12,058,019)	(5,670)	1,134	13,053,896	(2,610,779)	10,438,581	(1,619,438)
Balance - as at December 31, 2019	150,683,762	3,439,036,612	156,570,483	15,048,319	431,231,212	6,012,419,398			35,087,622	(7,017,524)	28,070,098	10,233,059,884

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

													Unit: Baht
						_			Other components				
			-		Retained earning	js		Other comp	orehensive income (I	oss)			
	Issued and		Subordinated				Exchange differences on translating		Income taxes relating to remeasuring of		Income taxes relating to	Total other	
	paid-up share capital	Share premium	capital debentures	Legal reserve	Reserve for expansion	Unappropriated	financial statement	Available-for-sale securities	available-for-sale securities	Cash flow hedges	cash flow hedges	components of equity	Total equity
Balance - as at January 1, 2018 Changes in equity for the year Interest expenses for subordinated	3,969,985,400	105,417,619,764	9,661,771,205	396,998,540	16,900,000,000	179,555,557,529	856,493,540			757,614,970	(160,548,043)	1,453,560,467	317,355,492,905
capital debentures	-	-	-	-	-	(564,099,593)	-	-	-	-	-	-	(564,099,593)
Income tax for subordinated													
capital debentures	-	-	-	-	-	100,762,936	-	-	-	-	-	-	100,762,936
Dividends paid	-	-	-	-	-	(17,863,971,423)	-	-	-	-	-	-	(17,863,971,423)
Profit for the year	-	-	-	-	-	26,275,635,704	-	-	-	-	-	-	26,275,635,704
Other comprehensive income (loss) for the year	-	-	-	-	-	(3,010,224)	(2,349,073,515)	185,437	(37,087)	15,136,434	(3,027,287)	(2,336,816,018)	(2,339,826,242)
Balance - as at December 31, 2018	3,969,985,400	105,417,619,764	9,661,771,205	396,998,540	16,900,000,000	187,500,874,929	(1,492,579,975)	185,437	(37,087)	772,751,404	(163,575,330)	(883,255,551)	322,963,994,287

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

														Unit: Baht
										Other components	of equity			
				_		Retained earning	js		Other comp	ehensive income (lo	oss)			
										Income taxes				
								Exchange		relating to		Income taxes		
		Issued and		Subordinated				differences		remeasuring of		relating to	Total other	
		paid-up	Share	capital	Legal	Reserve for		on translating		available-for-sale	Cash flow	cash flow	components	Total
1	Votes	share capital	premium	debentures	reserve	expansion	Unappropriated	financial statement	securities	securities	hedges	hedges	of equity	equity
Balance - as at January 1, 2019		3,969,985,400	105,417,619,764	9,661,771,205	396,998,540	16,900,000,000	187,500,874,929	(1,492,579,975)	185,437	(37,087)	772,751,404	(163,575,330)	(883,255,551)	322,963,994,287
Changes in equity for the year														
Interest expenses for														
subordinated capital debentures		-	-	-	-	-	(422,134,817)	-	-	-	-	-	-	(422,134,817)
Redemption of subordinated														
capital debentures	36	-	-	(4,679,778,856)	-	-	(20,990,128)	-	-	-	-	-	-	(4,700,768,984)
Income tax for subordinated														
capital debentures		-	-	-	-	-	90,908,054	-	-	-	-	-	-	90,908,054
Dividends paid	44	-	-	-	-	-	(21,834,529,501)	-	-	-	-	-	-	(21,834,529,501)
Profit for the year		-	-	-	-	-	35,275,095,840	-	-	-	-	-	-	35,275,095,840
Other comprehensive income (loss) for the year		-		_	_	-	(364,431,525)	(22,753,270,182)	(185,437)	37,087	392,389,523	(79,452,826)	(22,440,481,835)	(22,804,913,360)
Balance - as at December 31, 2019		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)	-	-	1,165,140,927	(243,028,156)	(23,323,737,386)	308,567,651,519



Statements of Cash Flows

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

	Unit: U	S Dollar	Unit	Unit: Baht		
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>		
ash flows from operating activities						
Profit before income taxes	2,246,062,046	1,852,267,398	69,754,242,057	59,970,581,113		
Adjustment to reconcile profit before income taxes to net cash	_, , ,	.,,,	,,			
provided by (used in) operating activities						
Share of profit of associates and joint ventures	(12,351,839)	(7,932,268)	(380,419,707)	(256,247,378)		
Depreciation, depletion and amortization	2,026,055,587	1,848,510,539	62,810,841,149	59,809,002,872		
(Reversal of) increase in allowance for decrease	,,,	, = =, = =, = =	- ,,- ,	,,		
in value of inventory to net realizable value	(1,363,744)	1,642,796	(43,712,350)	46,211,969		
Write-off of exploration assets	76,756,433	673,405	2,368,682,811	21,470,147		
Loss on disposal of assets	19,049,055	17,369,216	587,146,421	560,519,399		
Other amortized expenses	32,049,621	11,974,556	972,885,487	380,498,448		
Income recognized from deferred income	(3,541,237)		(109,902,234)	(176,240,204)		
Loss (gain) on financial derivatives	57,849,873	(35,469,813)	1,782,312,946	(1,197,296,074)		
Provision for employee benefits	35,252,078	13,395,278	1,106,330,638	432,564,030		
Other provision	8,133,535	11,004,545	245,821,184	359,903,221		
(Gain) loss on foreign exchange	(8,014,338)	8,005,626	(248,724,877)	258,542,066		
Interest income less than interest expenses	147,107,031	147,261,911	4,565,464,609	4,765,073,023		
Loss from divestment of asset	147,107,001	57,768,001	-,000,404,000	1,886,227,194		
Loss from divestment of asset	4,623,044,101	3,921,014,000	143,410,968,134	126,860,809,826		
Changes in operating assets (increase) decrease	1,020,011,101	0,021,011,000	. 10,110,000,101	120,000,000,020		
Investments in trading securities	(128,999,785)	(70,000,000)	(4,003,506,473)	(2,260,653,329)		
Account receivable - parent company	103,165,691	(70,110,255)	3,201,745,735	(2,264,214,009		
Trade accounts receivable	11,815,123	22,358,808	366,682,176	722,078,767		
Other accounts receivable	7,791,561	8,229,120	241,810,990	265,759,818		
Inventories	(2,463,831)		(76,464,972)	(263,766,269		
Materials and supplies	(12,286,838)	, .	(381,321,841)	574,750,091		
Working capital from co-venturers	(37,137,150)		(1,152,550,933)	762,805,036		
Other current assets	(18,304,834)	(10,113,775)	(568,090,247)	(326,624,860		
Rights to receive reimbursement from decommissioning funds	(26,903,288)	(30,364,855)	(834,943,161)	(980,634,427		
Prepaid expenses	637,546	(401,257)	19,786,246	(12,958,616		
Other non-current assets	40,332,784	(5,902,396)	1,251,727,386			
Changes in operating liabilities increase (decrease)	40,332,704	(3,902,390)	1,231,727,300	(190,618,148		
	(44 650 060)	96,951,729	(1 205 062 510)	2 121 060 605		
Trade accounts payable	(44,658,068)		(1,385,962,510)	3,131,060,695		
Working capital to co-venturers	(72,571,302)	1,911,181	(2,252,249,324)	61,721,688		
Accrued expenses	9,316,035	365,027	289,123,026	11,788,572		
Other current liabilities	38,163,249	(5,463,046)	1,184,395,904	(176,429,323		
Deferred income	3,891,828	1,938,878	120,782,835	62,616,171		
Provision	(112,677,624)	(103,750,870)	(3,496,948,444)	(3,350,639,267		
Other non-current liabilities	(3,520,925)	(5,010,630)	(109,271,867)	(161,818,541		
Currency translation differences	1,104,775	509,984	34,286,684	16,469,946		
Interest received from bank deposits	66,838,520	41,713,612	2,074,332,527	1,347,143,068		
Cash paid for income taxes	(926,972,067)	(550,257,922)	(28,768,564,890)	(17,770,605,756)		
Net cash flows provided by operating activities	(1,103,438,600) 3,519,605,501	(644,147,332) 3,276,866,668	(34,245,201,153)	(20,802,768,693) 106,058,041,133		

Statements of Cash Flows

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

Consolidated

Unit: US	Dollar	Unit: Baht		
<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>	
	,		(53,371,921,365)	
			122,272,612,620	
			(337,300,134)	
			488,575,078	
(2,713,300,641)	,	(84,207,246,710)	(21,083,886,123)	
-	,	-	(12,846,310,693	
, ,	133,091,954	,	4,298,210,984	
(79,411,697)	-	(2,464,540,889)	-	
-	1,048,800	-	33,871,046	
(36,530)	-	(1,133,712)	-	
14,716,091	5,437,332	456,713,672	175,598,906	
15,376,377	39,796,666	477,205,647	1,285,235,233	
5,218,266	3,335,083	161,948,823	107,706,654	
(1,063,093,098)	(1,081,484,756)	(32,993,079,128)	(34,926,601,616	
(26,146,817)	(11,694,808)	(811,466,087)	(377,684,387	
(119,228,176)	(60,772,959)	(3,700,244,754)	(1,962,665,601	
(3,343,627,718)	116,285,341	(103,769,438,562)	3,755,440,602	
259,580,550	-	8,056,078,675	-	
(258,825,547)	-	(8,032,647,151)	-	
1,130,045,316	-	35,070,940,278	-	
(418,199,073)	(403,742,006)	(12,978,802,274)	(13,038,867,283	
600,000,000	-	18,620,991,444	-	
(7,784,707)	(575,134,857)	(241,598,267)	(18,574,007,559	
(109,932,149)	(128,371,867)	(3,411,742,705)	(4,145,775,533	
(990,846,095)	-	(30,750,894,428)	-	
(53,610,567)	(57,696,014)	(1,663,803,190)	(1,863,295,513	
(7,613,542)	-	(236,286,174)	-	
-	(1,226,264)	-	(39,602,268	
1,353,260	(2,395,365)	41,998,395	(77,358,436	
(697,760,493)	(555,702,071)	(21,654,986,972)	(17,946,424,798	
(553,593,047)	(1,724,268,444)	(17,180,752,369)	(55,685,331,390	
(377,615,264)	1,668,883,565	(11,784,423,950)	54,128,150,345	
3,180,095,315		,	49,419,466,004	
2,802,480,051	3,181,064,857		103,547,616,349	
			(354,055,559)	
2,822,897,310	3,180,095,315	85,121,635,618	103,193,560,790	
	2019 (744,750,000) 1,365,410,338 10,444,330 10,800,587 (2,713,300,641) - (19,626,748) (79,411,697) - (36,530) 14,716,091 15,376,377 5,218,266 (1,063,093,098) (26,146,817) (119,228,176) (3,343,627,718) 259,580,550 (258,825,547) 1,130,045,316 (418,199,073) 600,000,000 (7,784,707) (109,932,149) (990,846,095) (53,610,567) (7,613,542) - 1,353,260 (697,760,493) (553,593,047) (377,615,264) 3,180,095,315 2,802,480,051 20,417,259	(744,750,000) (1,652,634,859) 1,365,410,338 3,786,110,314 10,444,330 (10,444,330) 10,800,587 15,128,483 (2,713,300,641) (652,851,992) - (397,779,587) (19,626,748) 133,091,954 (79,411,697) - 1,048,800 (36,530) - 14,716,091 5,437,332 15,376,377 39,796,666 5,218,266 3,335,083 (1,063,093,098) (1,081,484,756) (26,146,817) (11,694,808) (119,228,176) (60,772,959) (3,343,627,718) 116,285,341 259,580,550 - (258,825,547) - 1,130,045,316 (418,199,073) (403,742,006) 600,000,000 - (7,784,707) (575,134,857) (109,932,149) (128,371,867) (990,846,095) - (53,610,567) (57,696,014) (7,613,542) - (1,226,264) 1,353,260 (2,395,365) (697,760,493) (555,702,071) (553,593,047) (1,724,268,444) (377,615,264) 1,668,883,565 3,180,095,315 1,512,181,292 2,802,480,051 3,181,064,857 20,417,259 (969,542)	2019 2018 2019 (744,750,000) (1,652,634,859) (23,113,305,629) 1,365,410,338 3,786,110,314 42,375,490,353 10,444,330 (10,444,330) 324,139,633 10,800,587 15,128,483 335,196,063 (2,713,300,641) (652,851,992) (84,207,246,710) - (397,779,587) - (19,626,748) 133,091,954 (609,115,844) (79,411,697) - (2,464,540,889) - 1,048,800 - (36,530) - (1,133,712) 14,716,091 5,437,332 456,713,672 15,376,377 39,796,666 477,205,647 5,218,266 3,335,083 161,948,823 (1,063,093,098) (1,081,484,756) (32,993,079,128) (26,146,817) (11,694,808) (811,466,087) (119,228,176) (60,772,959) (3,700,244,754) (3,343,627,718) 116,285,341 (103,769,438,562) 259,580,550 - 8,056,078,675 (258,825,547) -	





Statements of Cash Flows

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

	Unit: US	S Dollar	Unit:	Baht
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Cash flows from operating activities				
Profit before income taxes	1,500,013,396	1,166,297,991	46,540,962,047	37,747,033,055
Adjustment to reconcile profit before income taxes to net cash	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,	,,,.	,,,
provided by (used in) operating activities				
Depreciation, depletion and amortization	1,050,260,840	916,664,049	32,585,816,321	29,724,240,162
Loss on disposal of assets	2,647,971	3,845,950	79,178,715	125,242,187
Other amortized expenses	18,947,870	2,819,502	574,645,123	91,008,481
Income recognized from deferred income	(1,110,595)	(480,490)	(34,467,284)	(15,517,454)
Loss (gain) on financial derivatives	9,047,624	(9,280,591)	288,510,615	(276,885,775)
Dividends received from related parties	(46,175,204)	(66,297,020)	(1,412,601,869)	(2,167,208,482)
Provision for employee benefits	31,251,247	11,861,080	980,361,471	383,020,294
Other provision	9,763,436	-	295,081,965	-
Loss (gain) on foreign exchange	2,730,310	(112,338,627)	84,735,149	(3,627,981,296)
Interest income (higher) less than interest expenses	(207,477,753)	37,555,761	(6,427,251,682)	1,203,130,583
	2,369,899,142	1,950,647,605	73,554,970,571	63,186,081,755
Changes in operating assets (increase) decrease				
Investments in trading securities	70,000,000	(70,000,000)	2,172,449,002	(2,260,653,329)
Account receivable - parent company	47,660,691	(78,095,566)	1,479,148,877	(2,522,100,015)
Trade accounts receivable	(204,007)	625,855	(6,331,368)	20,212,011
Other accounts receivable	(39,228,443)	3,325,497	(1,217,454,170)	107,397,072
Inventories	(395,264)	(349,150)	(12,267,012)	(11,275,820)
Materials and supplies	(668,562)	8,706,897	(20,748,824)	281,189,673
Working capital from co-venturers	(4,978,989)	5,185,491	(154,522,858)	167,465,672
Other current assets	(32,651,005)	(936,057)	(1,013,323,479)	(30,230,006)
Other non-current assets	426,414	(900,936)	13,233,762	(29,095,763)
Changes in operating liabilities increase (decrease)				
Trade accounts payable	(4,001,597)	83,575,456	(124,189,504)	2,699,073,334
Working capital to co-venturers	(32,847)	(567,800)	(1,019,392)	(18,337,128)
Accrued expenses	(1,310,792)	42,979,644	(40,680,415)	1,388,029,639
Other current liabilities	22,922,113	(9,527,802)	711,387,466	(307,700,829)
Deferred income	972,957	484,720	30,195,709	15,654,047
Provision	(90,231,073)	(84,199,380)	(2,800,320,063)	(2,719,222,979)
Other non-current liabilities	(5,993,041)	(4,338,087)	(185,993,953)	(140,098,728)
Interest received from bank deposits	25,862,231	12,949,835	802,633,981	418,215,547
Cash paid for income taxes	(518,342,197)	(301,844,934)	(16,086,742,696)	(9,748,096,483)
	(530,193,411)	(392,926,317)	(16,454,544,937)	(12,689,574,085)
Net cash flows provided by operating activities	1,839,705,731	1,557,721,288	57,100,425,634	50,496,507,670



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Statements of Cash Flows

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

The Company

Cash flows from investing activities		Unit: US	Dollar	Unit:	Baht
Cash paid for short-term investments		2019	2018	2019	2018
Cash received from investing in short-term investments Cash received (paid) for investment in available-for-sale securities 10,444,330 10,444,330 32,4,39,633 (33,730,134) Cash received from long-term loans to related parties 205,200,000 7,438,539 6,388,379,074 240,227,976 Cash paid for long-term loans to related parties (5,400,588,120) Cash paid for long-term loans to related parties (6,400,588,120) Cash paid for long-term loans to related parties (7,1398,811) Cash paid for long-term loans Cash paid for investment in subsidiaries (128,691,609) Cash paid for investment in subsidiaries (128,691,609) Cash paid for investment in subsidiaries (128,691,609) Cash paid for investment in subsidiaries Cash paid for investment in subsidiaries (148,691,609) Decrease in investment in subsidiaries (158,691,609) Decrease in investment in subsidiaries (158,691,609) Decrease in investment in subsidiaries (168,530) Cash paid for investment in subsidiaries (178,691,609) Decrease in investment in subsidiaries (198,690,000) Cash paid for repayment of short-term loan (268,805,647) Cash paid for	Cash flows from investing activities				
Cash received (paid) for investment in available-for-sale securities 10,444,330 (10,444,330) 324,139,633 (337,300,134) Decrease in short-term loans to related parties 205,000,000 7,438,533 6,368,79,074 240,227,976 Cash peaid for long-term loans to related parties (1,195,617,478) (5,400,568,120) (37,705,971,377) (174,412,280,155) Cash paid for business acquisition (71,398,811) (630,818,977) (2,215,861,080) (20,372,385,575) Cash paid for investment in subsidiaries (128,691,609) (177,751,391) (3,993,942,255) (5,704,489,624) Decrease in investment in subsidiaries (2,600,900) (177,751,391) (3,993,942,255) (5,704,489,624) Decrease in investment in other long-term investment (36,530) (177,751,391) (3,993,942,255) (5,704,489,624) Dividends received from short-term investments (38,530) (17,751,391) (3,933,942,255) (3,714,056,987) Interest received from short-term investments (3,845,677) (12,469,053) 305,650,754 402,688,644 Increase in exploration and evaluation assets (19,469,000) (10,101,4111) (604,220,145) (632	Cash paid for short-term investments	(744,750,000)	(613,295,843)	(23,113,305,629)	(19,806,418,429)
Decrease in short-term loans to related party	Cash received from investing in short-term investments	1,007,580,338	1,396,434,992	31,270,241,405	45,097,934,486
Cash received from long-term loans to related parties 205,200,000 7,438,539 6,368,379,074 240,227,976 Cash paid for long-term loans to related parties (1,195,617,478) (5,400,588,120) (37,05,971,377) (174,412,250,155) Cash paid for business acquisition (71,398,811) (630,819,897) (2,215,861,080) (20,372,358,675) (12,246,310,693) Cash paid for investment in subsidiaries (128,691,609) (177,751,391) (3,933,942,255) (5,740,489,624) Decrease in investment in subsidiaries - 39,988,574 - 1,290,766,987 Cash paid for investment in other long-term investment (36,530) - (1,133,172) - 1,290,766,987 Cash paid for investment in other long-term investment (36,530) - (1,133,712) - (1,13,712) - (1,13,712) - (1,13,712) - (1,13,712) - (1,13,712)	Cash received (paid) for investment in available-for-sale securities	10,444,330	(10,444,330)	324,139,633	(337,300,134)
Cash paid for long-term loans to related parties Cash paid for business acquisition Cash paid for business acquisition Cash paid for business acquisition Cash paid for investment in subsidiaries Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment (36,530) Cash paid for investment in subsidiaries (36,530) Cash paid for investment in other long-term investments (36,530) Cash paid for investment in subsidiaries (36,630) Cash paid for investment in subsidiaries (36,530) Cash flows from loans (36,60,764) Cash flows used in investment in subsidiaries Cash flows used in investment in subsidiaries Cash flows from financing activities Cash paid for repayment of both-term loan (259,805,547) Cash paid for repayment of both-term loan (268,805,547) Cash paid for repayment of short-term loan (268,900) Cash paid for repayment of short-term loan	Decrease in short-term loans to related party	814,909,261	5,721,081,385	25,290,697,295	184,762,595,402
Cash paid for business acquisition (71,398,811) (630,819,897) (2,215,861,080) (20,372,358,575) Cash prepayment for business acquisition - (397,779,587) - (12,846,310,693) Cash paid for investment in subsidiaries - 39,968,574 - 1,290,786,987 Cash paid for investment in other long-term investment (36,530) - (1,133,712) - Dividends received from related parties 46,175,204 66,297,020 1,433,046,808 2,141,065,419 Interest received from short-term investments 9,848,587 12,469,053 305,650,754 402,688,644 Interest received from loans 47,953,529 27,163,187 1,448,237,081 877,236,423 Increase in property, plant and equipment (264,756,583) (476,833,625) (8,216,716,749) (15,399,394,603) Increase in intangible assets (19,469,000) (10,014,111) (604,220,145) (323,406,180) Increase in intangible assets (19,469,000) (10,014,111) (604,220,145) (323,406,180) Increase in exploration and evaluation assets - (4,578,669) - (14	Cash received from long-term loans to related parties	205,200,000	7,438,539	6,368,379,074	240,227,976
Cash prepayment for business acquisition Cash paid for investment in subsidiaries Cash paid for investment in subsidiaries Cash paid for investment in subsidiaries Cash paid for investment in other long-term investment (36,530) Cash paid for investment in other long-term investment Cash paid for melated parties 46,175,204 66,297,020 1,433,046,808 2,141,065,419 1,486,887 12,469,053 30,5650,754 402,688,644 Interest received from loans 47,953,529 27,163,187 1,488,237,081 1,488,237	Cash paid for long-term loans to related parties	(1,195,617,478)	(5,400,588,120)	(37,105,971,377)	(174,412,250,155)
Cash paid for investment in subsidiaries Decrease in investment in subsidiaries 1 39,968,574 1 1,290,786,987 Cash paid for investment in subsidiaries 46,175,204 Bitterest received from related parties 46,175,204 Bitterest received from Ioans 47,953,529 27,163,187 Bitterest received from loans 47,953,529 Bitterest received from loans Bitterest part (604,220,145) Cash flows troed in investing activities Cash received from short-term loan Cash received from short-term loan Cash paid for repayment of short-term loan Cash paid for repayment of short-term loan Cash paid for repayment of debentures Cash paid for repayment of long-term loans	Cash paid for business acquisition	(71,398,811)	(630,819,897)	(2,215,861,080)	(20,372,358,575)
Decrease in investment in subsidiaries	Cash prepayment for business acquisition	-	(397,779,587)	-	(12,846,310,693)
Cash paid for investment in other long-term investment (36,530) - (1,133,712) - (1,133,712) Dividends received from related parties 46,175,204 66,297,020 1,433,046,808 2,141,065,419 Interest received from short-term investments 9,848,587 12,469,053 305,650,754 402,688,644 Interest received from loans 47,953,529 27,163,187 1,488,237,081 877,236,423 Increase in property, plant and equipment (264,756,583) (476,833,625) (8,216,716,749) (15,399,364,603) Increase in intangible assets (19,469,000) (10,014,111) (604,220,145) (323,406,100) Increase in exploration and evaluation assets - (4,578,669) - (147,868,326) Net cash flows used in investing activities (282,608,762) (451,252,823) (8,770,758,897) (14,573,231,382) Cash flows from financing activities (282,608,762) (451,252,823) (8,770,758,897) (14,573,231,382) Cash paid for repayment of bort-term loan (258,825,547) - (8,032,647,151) - Cash paid for repayment of long-term loans (266,900) (134,857)	Cash paid for investment in subsidiaries	(128,691,609)	(177,751,391)	(3,993,942,255)	(5,740,489,624)
Dividends received from related parties 46,175,204 66,297,020 1,433,046,808 2,141,065,419 1,141,065,419 1,141,065,419 1,446,053 305,650,754 402,688,644 1,1446,053 1,2469,053 305,650,754 402,688,644 1,1446,054 1,448,237,081 877,236,423 1,448,237,081 877,236,423 1,448,237,081 877,236,423 1,469,000 1,0014,111 (604,220,145) (15,399,364,603) 1,1416,054,054 1,448,237,081 877,236,423 1,448,237,081 877,236,423 1,448,237,081 877,236,423 1,469,000 1,0014,111 (604,220,145) (323,406,180) 1,1469,000 1,4768,326 1,4768,32	Decrease in investment in subsidiaries	-	39,968,574	-	1,290,786,987
Interest received from short-term investments	Cash paid for investment in other long-term investment	(36,530)	-	(1,133,712)	-
Interest received from loans	Dividends received from related parties	46,175,204	66,297,020	1,433,046,808	2,141,065,419
Increase in property, plant and equipment (264,756,583) (476,833,625) (8,216,716,749) (15,399,364,603) Increase in intangible assets (19,469,000) (10,014,111) (604,220,145) (323,406,180) Increase in exploration and evaluation assets - (4,578,669) - (147,668,326) Net cash flows used in investing activities (282,608,762) (451,252,823) (8,770,758,897) (14,573,231,382) Cash received from short-term loan 259,580,550 - (8,032,647,151) - (8,032,647,151) - (258,paid for repayment of short-term loan (258,825,547) - (8,032,647,151) - (258,paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - (4,509,5	Interest received from short-term investments	9,848,587	12,469,053	305,650,754	402,688,644
Increase in intangible assets	Interest received from loans	47,953,529	27,163,187	1,488,237,081	877,236,423
Increase in exploration and evaluation assets - (4,578,669) - (147,868,326) Net cash flows used in investing activities (282,608,762) (451,252,823) (8,770,758,897) (14,573,231,382) Cash flows from financing activities 259,580,550 - 8,056,078,675 - (8,032,647,151) - (8,032,647	Increase in property, plant and equipment	(264,756,583)	(476,833,625)	(8,216,716,749)	(15,399,364,603)
Net cash flows used in investing activities (282,608,762) (451,252,823) (8,770,758,897) (14,573,231,382) Cash flows from financing activities Cash received from short-term loan 259,580,550 - 8,056,078,675 - 8,056,078,675	Increase in intangible assets	(19,469,000)	(10,014,111)	(604,220,145)	(323,406,180)
Cash flows from financing activities 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) (403,742,006) (12,978,802,274) (13,038,867,283) Cash paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents at the beginning of the	Increase in exploration and evaluation assets	-	(4,578,669)	-	(147,868,326)
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) (403,742,006) (12,978,802,274) (13,038,867,283) Cash paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents at the beginning of the ye	Net cash flows used in investing activities	(282,608,762)	(451,252,823)	(8,770,758,897)	(14,573,231,382)
Cash paid for repayment of short-term loan Cash paid for repayment of debentures (418,199,073) (403,742,006) (12,978,802,274) (13,038,867,283) Cash paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - (45,09,538,603) Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 713,364,275 460,868,405 22,798,225,975 15,223,301,823 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Cash flows from financing activities				
Cash paid for repayment of debentures (418,199,073) (403,742,006) (12,978,802,274) (13,038,867,283) Cash paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Cash and	Cash received from short-term loan	259,580,550	-	8,056,078,675	-
Cash paid for repayment of long-term loans (266,900) (134,857) (8,283,244) (4,355,214) Interest paid for debentures and loans (32,294,311) (54,206,254) (1,002,253,461) (1,750,593,540) Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash an	Cash paid for repayment of short-term loan	(258,825,547)	-	(8,032,647,151)	-
Interest paid for debentures and loans	Cash paid for repayment of debentures	(418,199,073)	(403,742,006)	(12,978,802,274)	(13,038,867,283)
Cash paid for redemption of subordinated capital debentures (145,305,000) - (4,509,538,603) - Interest paid for subordinated capital debentures (13,632,287) (17,404,632) (423,077,837) (562,083,439) Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Cash paid for repayment of long-term loans	(266,900)	(134,857)	(8,283,244)	(4,355,214)
Interest paid for subordinated capital debentures	Interest paid for debentures and loans	(32,294,311)	(54,206,254)	(1,002,253,461)	(1,750,593,540)
Net cash received (paid) for financial derivative contracts 876,960 (2,395,365) 27,216,432 (77,358,436) Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Cash paid for redemption of subordinated capital debentures	(145,305,000)	-	(4,509,538,603)	-
Dividends paid (697,760,493) (555,702,071) (21,654,986,972) (17,946,424,798) Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Interest paid for subordinated capital debentures	(13,632,287)	(17,404,632)	(423,077,837)	(562,083,439)
Net cash flows used in financing activities (1,305,826,101) (1,033,585,185) (40,526,294,435) (33,379,682,710) Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Net cash received (paid) for financial derivative contracts	876,960	(2,395,365)	27,216,432	(77,358,436)
Net increase in cash and cash equivalents 251,270,868 72,883,280 7,803,372,302 2,543,593,578 Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 713,364,275 460,868,405 22,798,225,975 15,223,301,823 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Dividends paid	(697,760,493)	(555,702,071)	(21,654,986,972)	(17,946,424,798)
Cash and cash equivalents at the beginning of the year 462,093,407 387,985,125 14,994,853,673 12,679,708,245 713,364,275 460,868,405 22,798,225,975 15,223,301,823 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Net cash flows used in financing activities	(1,305,826,101)	(1,033,585,185)	(40,526,294,435)	(33,379,682,710)
713,364,275 460,868,405 22,798,225,975 15,223,301,823 Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Net increase in cash and cash equivalents	251,270,868	72,883,280	7,803,372,302	2,543,593,578
Adjustment for the effect of exchange rate changes 2,403,745 1,225,002 (1,214,959,636) (228,448,150) Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Cash and cash equivalents at the beginning of the year	462,093,407	387,985,125	14,994,853,673	12,679,708,245
Cash and cash equivalents at the end of the year 715,768,020 462,093,407 21,583,266,339 14,994,853,673 Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628		713,364,275	460,868,405	22,798,225,975	15,223,301,823
Supplementary cash flow information Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Adjustment for the effect of exchange rate changes	2,403,745	1,225,002	(1,214,959,636)	(228,448,150)
Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Cash and cash equivalents at the end of the year	715,768,020	462,093,407	21,583,266,339	14,994,853,673
Unpaid for outstanding payable from purchases of assets 35,521,871 501,400,086 1,102,420,752 16,192,739,628	Supplementary cash flow information				
	• • • • • • • • • • • • • • • • • • • •	35,521,871	501,400,086	1,102,420,752	16,192,739,628
Long-term rouns to related parties for interest rollover	Long-term loans to related parties for interest rollover	-	18,004	-	581,428

Notes to financial statements are an integral part of these financial statements.

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Notes to Financial Statements

PTT Exploration and Production Public Company Limited and Subsidiaries For the Year Ended December 31, 2019

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, 6th and 19th – 36th Floor, Vibhavadi-Rangsit Road, Chatuchak, Bangkok 10900.

The principal business operations of the Company, subsidiaries, associates, joint ventures and joint operations (the Group) are exploration and production of petroleum in Thailand and overseas, midstream oil and gas business, foreign gas pipeline transportation and investment in projects strategically connected to the energy business.

As at December 31, 2019, the Group had operations relating to the exploration and production of petroleum in 15 countries and had investments in exploration and production projects with participating interests as follows:

Project	Country	Operator	Participating interest		
			2019	2018	
PTT Exploration and Pro	duction Public	Company Limited			
Bongkot	Thailand	PTT Exploration and Production Plc.	66.6667	66.6667	
Arthit	Thailand	PTT Exploration and Production Plc.	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	
Contract 3 (B10, B11,	Thailand	Chevron Thailand Exploration and Production, Ltd.	5	5	
B12 and B13)					
E5	Thailand	ExxonMobil Exploration and Production Khorat Inc.	20	20	
Algeria Hassi Bir	People's	PTT Exploration and Production Plc.	24.5	24.5	
Rekaiz	Democratic				
	Republic of				
	Algeria				

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Project	Country	Operator	Participat	ing interest
			2019	2018
PTTEP International L	imited (PTTEPI)			
Yadana	Republic of	Total E&P Myanmar	25.5	25.5
	the Union			
	of Myanmar			
Yetagun	Republic of	Petronas Carigali Myanmar (Hong Kong)	19.31784	19.31784
	the Union	Ltd.		
	of Myanmar			
PTTEP 1	Thailand	PTTEP International Limited	100	100
G4/43	Thailand	Chevron Offshore (Thailand) Ltd.	21.375	21.375
G9/43	Thai - Kingdom	PTTEP International Limited	100	100
	of Cambodia			
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) ¹	Thailand	Chevron Pattani, Ltd.	60	45
Arthit (G8/50)	Thailand	PTTEP International Limited	80	80
Zawtika	Republic of	PTTEP International Limited	80	80
	the Union			
	of Myanmar			
Myanmar M3	Republic of	PTTEP International Limited	80	80
	the Union			
	of Myanmar			
Myanmar M11 ²	Republic of	PTTEP International Limited	100	100
	the Union			
	of Myanmar			
MTJDA	Thailand –	Carigali-PTTEPI Operating Company Sdn Bhd.	50	50
	Malaysia			
PTTEP Offshore Inves	stment Company I	Limited (PTTEPO)		
B8/32 & 9A ³	Thailand	Chevron Offshore (Thailand) Ltd.	25.001	25.001
PTTEP Southwest Vie	etnam Company L	imited (PTTEP SV)		
Vietnam 52/97	Socialist	Vietnam Oil and Gas Group	7	7
	Republic of			
	Vietnam			

Project	Country	Operator	Participati	ng interest
			2019	2018

PTTEP Australia Perth Pty Limited (PTTEP AP)

PTTEP Australasia *

Commonwealth of Australia

^{*} Details of operators and participating interests in PTTEP Australasia project are as follows:

Block	Operator	Participat	ing interest
		2019	2018
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	PTTEP Australia Timor Sea Pty Ltd	100	100
(exclusive of Audacious)			
AC/RL4 (exclusive of Tenacious),	PTTEP Australia Timor Sea Pty Ltd	100	100
AC/RL5			

Project	Country	Operator	Participat	ing interest
			2019	2018
PTTEP Mozambique Are	a 1 Limited (PT)	ΓΕΡ MZA1)		
Mozambique Area 1 ⁵	Republic of	Anadarko Mozambique Area 1 Limitada	8.5	8.5
	Mozambique			
Natuna 2 B.V. (Natuna)				
Natuna Sea A	Republic of	Premier Oil Natuna Sea BV	11.5	11.5
	Indonesia			
PTTEP Brazil Investment	s in Oil and Gas	Exploration and Production Limitada (PTTI	EP BL)	
Barreirinhas AP 1	Federative	Shell Brasil Petroleo Ltda.	25	25
	Republic			
	of Brazil			
Brazil BM-ES-23	Federative	Petróleo Brasileiro S.A. (Petrobas)	20	20
	Republic			
	of Brazil			

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Project	Country	Operator	Participati	ng interest
			2019	2018
PTTEP SP Limited (PTT	EP SP)			
Contract 4 (B12/27)	Thailand	Chevron Thailand Exploration and	15	15
		Production, Ltd.		
Sinphuhorm (E5 North	Thailand	PTTEP SP Limited	35	35
and EU-1)				
PTTEP G7 Limited (PTT	EP G7)			
Contract 4 (G7/50) 1	Thailand	Chevron Pattani, Ltd.	-	15
PTTEP HK Offshore Lim	nited (DTTED HK	(0)		
			10.5	10.5
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 ⁶	Malaysia	PTTEP HK Offshore Limited	55	-
Peninsular PM 415 ⁶	Malaysia	PTTEP HK Offshore Limited	70	-
PTTEP Mexico E&P Lim	ited, 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 Develop			00	
G1/61 ⁷	Thailand	PTTEP Energy Development Company Limited	60	-
G2/61 ⁷	Thailand	PTTEP Energy Development Company Limited	100	-
PTTEP MENA Limited (I	PTTEP MENA)			
Abu Dhabi Offshore 1 ⁸	United Arab	Eni Abu Dhabi B.V.	30	-
	Emirates			
Abu Dhabi Offshore 2 ⁸	United Arab	Eni Abu Dhabi B.V.	30	-
	Emirates			



Project	Country	Operator	Participatir	ng interest
			2019	2018

PTTEP Sabah Oil Limited (PTTEP SBO) 9

Malaysia Block K ** Malaysia
Malaysia Block H *** Malaysia

^{**} Details of operators and participating interests in Malaysia Block K project are as follows:

	Block	Operator	Participat	ing interest
			2019	2018
Kikeh		PTTEP Sabah Oil Limited	56	-
SNP		PTTEP Sabah Oil Limited	22.4	-
GK		Sabah Shell Petroleum Co.Ltd.	6.366	-

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

	Block	Operator	Participat	ting interest
			2019	2018
Rotan		PTTEP Sabah Oil Limited	56	-
Others		PTTEP Sabah Oil Limited	42	-

Project	Country	Operator	Participat	ing interest
			2019	2018
PTTEP Sarawak Oil Limi	ted (PTTEP SK	O) ⁹		
Sarawak SK 314A	Malaysia	PTTEP Sarawak Oil Limited	59.5	-
Sarawak SK 405B	Malaysia	PTTEP Sarawak Oil Limited	59.5	-
Sarawak SK 309 and	Malaysia			
SK 311 ****				

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

Block	Operator	Paticipati	ng interest
		2019	2018
East Patricia	PTTEP Sarawak Oil Limited	42	-
Others	PTTEP Sarawak Oil Limited	59.5	-

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Project	Country	Operator	Participat	ting interest
			2019	2018
Partex Holding B.V. ¹⁰				
Angola Block 17/06	Angola	TOTAL E&P Angola Block17.06 (TEPA)	2.5	-
Potiguar	Brazil	Partex Brasil Ltda	50	-
Dunga	Kazakhstan	Maersk Oil Kazakhstan GmbH	20	-
PDO (Block 6)	Oman	Petroleum Development Oman Limited	2	-
		Liability Company		
Mukhaizna (Block 53)	Oman	Occidental Mukhaizna,LLC	1	-

- On September 10, 2019, PTTEP International Limited (PTTEPI), received the official approval from the Director General of the Department of Mineral Fuels to receive the transfer of the 100% participating interests in concessions blocks no. G7/50 from PTTEP G7 Limited (PTTEP G7). As a result, PTTEPI's participating interests in the concessions blocks no. G7/50 increased from 45% to 60%. The transaction is a business combination under a common control.
- ² On September 26, 2019, PTTEP International Limited (PTTEPI) submitted a request to terminate and return 100% of the exploration blocks of Myanmar M11 project after fulfillment of the requirements of the Production Sharing Contract. The termination will be effective after receiving the official approval from the Government of the Republic of the Union of Myanmar.
- ³ PTTEP Offshore Investment Company Limited (PTTEPO has shareholding in Orange Energy Limited and B8/32 Partners Limited, which hold the project's concession.
- ⁴ On February 28, 2019, PTTEP South Asia Limited (PTTEP SA) received the official approval from the Government of the Republic of the Union of Myanmar to receive the transfer of the participating interests in Myanmar MOGE 3 project from other partners. As a result, its participating interests increased from 75% to 77.5% and PTTEP SA is the operator of the project.
- ⁵ Changed project name from Mozambique Rovuma Offshore Area 1 to Mozambique Area 1.
- ⁶ On March 21, 2019, PTTEP HK Offshore Limited (PTTEP HKO), a subsidiary of the Group, entered into the Production Sharing Contract to obtain the exploration and production rights of 2 offshore exploration blocks located in the coast of Peninsula, Malaysia, which are PM 407 and PM 415, in which PTTEP HKO holds 55% and 70% participating interests, respectively. PTTEP HKO is the operator of the 2 blocks.
- On February 25, 2019, PTTEP Energy Development Company Limited (PTTEP ED), a subsidiary of the Group, entered into the Production Sharing Contract of blocks G1/61 and G2/61. PTTEP ED holds 60% and 100% participating interests, respectively. PTTEP ED is the operator of the 2 blocks.



- ⁸ On January 12, 2019, PTTEP MENA Limited (PTTEP MENA), a subsidiary of the Group, and other partners signed the concession agreement to obtain the exploration and production rights of the exploration blocks Offshore 1 and Offshore 2 located on the northwestern coast of the Emirate of Abu Dhabi, the United Arab Emirates. PTTEP MENA holds 30% participating interests during the exploration period.
- ⁹ On March 21, 2019, PTTEP HK Offshore Limited (PTTEP HKO), a subsidiary of the Group, signed the Share Sale and Purchase Agreement 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). The acquision was completed on July 10, 2019 as disclosed in Note 6 Business acquisition in Murphy Oil Corporation in Malaysia.
- On June 17, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, signed the Share Sale and Purchase Agreement to acquire the 100% shareholding interests of Partex Holding B.V. (Partex). The acquision was completed on November 4, 2019 as disclosed in Note 7 Business acquisition in Partex Holding B.V.

2. Basis of Financial Statement Preparation

The consolidated and the Company financial statements 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 the interpretation and accounting 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 Group's management has determined US Dollar as the functional currency and presents its financial statements in US Dollar. However, the Stock Exchange of Thailand and the Department of Business Development require the entity to present its financial statements in Thai Baht, so the Group 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 on an annual basis and by the joint venture committee on a regular basis.

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

The preparation of financial statements in conformity with Thai Financial Reporting Standards requires management to make estimates and assumptions that affect the amounts of assets, liabilities, revenues and expenses reported in the financial statements. Estimates and assumptions are based on management's past

experience and other information available which is reasonable in a particular circumstance. Therefore, actual results may differ from these estimates and assumptions.

An English language version of the consolidated and the Company's financial statements has been translated from the statutory financial statements which are prepared in the Thai language. In the event of a conflict or difference in the interpretation between the two languages, the Thai language version of the statutory financial statements shall prevail.

New and Revised Accounting Standards, Financial Reporting Standards, Interpretation to Accounting Standards and Interpretation to Financial Reporting Standards

The new and revised accounting standards, financial reporting standards, interpretation to accounting standards and interpretation to financial reporting standards which are published in the Government Gazette are as follows:

Effective for the periods beginning on or after January 1, 2019

Thai Accounting Standard No. 1 (Revised 2018)	Presentation of financial statements
Thai Accounting Standard No. 2 (Revised 2018)	Inventories
Thai Accounting Standard No. 7 (Revised 2018)	Statement of cash flows
Thai Accounting Standard No. 8 (Revised 2018)	Accounting policies, changes in
	accounting estimates and errors
Thai Accounting Standard No. 10 (Revised 2018)	Events after the reporting period
Thai Accounting Standard No. 12 (Revised 2018)	Income taxes
Thai Accounting Standard No. 16 (Revised 2018)	Property, plant and equipment
Thai Accounting Standard No. 17 (Revised 2018)	Leases
Thai Accounting Standard No. 19 (Revised 2018)	Employee benefits
Thai Accounting Standard No. 20 (Revised 2018)	Accounting for government grants and
	disclosure of government assistance
Thai Accounting Standard No. 21 (Revised 2018)	The effects of changes in foreign
	exchange rates
Thai Accounting Standard No. 23 (Revised 2018)	Borrowing costs
Thai Accounting Standard No. 24 (Revised 2018)	Related party disclosures
Thai Accounting Standard No. 26 (Revised 2018)	Accounting and reporting by
	retirement benefit plans
Thai Accounting Standard No. 27 (Revised 2018)	Separate financial statements
Thai Accounting Standard No. 28 (Revised 2018)	Investments in associates and joint
	ventures
Thai Accounting Standard No. 29 (Revised 2018)	Financial reporting in hyperinflationary
	economies
Thai Accounting Standard No. 33 (Revised 2018)	Earnings per share

Thai Accounting Standard No. 34 (Revised 2018)	Interim financial reporting
Thai Accounting Standard No. 36 (Revised 2018)	Impairment of assets
Thai Accounting Standard No. 37 (Revised 2018)	Provisions, contingent liabilities and
	contingent assets
Thai Accounting Standard No. 38 (Revised 2018)	Intangible assets
Thai Accounting Standard No. 40 (Revised 2018)	Investment property
Thai Accounting Standard No. 41 (Revised 2018)	Agriculture
Thai Financial Reporting Standard No. 1	First-time adoption of Thai financial
	reporting standards
Thai Financial Reporting Standard No. 2 (Revised 2018)	Share-based payment
Thai Financial Reporting Standard No. 3 (Revised 2018)	Business combinations
Thai Financial Reporting Standard No. 4 (Revised 2018)	Insurance contracts
Thai Financial Reporting Standard No. 5 (Revised 2018)	Non-current assets held for sale and
	discontinued operations
Thai Financial Reporting Standard No. 6 (Revised 2018)	Exploration for and evaluation of mineral
	resources
Thai Financial Reporting Standard No. 8 (Revised 2018)	Operating segments
Thai Financial Reporting Standard No. 10 (Revised 2018)	Consolidated financial statements
Thai Financial Reporting Standard No. 11 (Revised 2018)	Joint arrangements
Thai Financial Reporting Standard No. 12 (Revised 2018)	Disclosure of interests in other entities
Thai Financial Reporting Standard No. 13 (Revised 2018)	Fair value measurement
Thai Financial Reporting Standard No. 15	Revenue from contracts with customers
Thai Standing Interpretations Committee No. 10	Government assistance – no specific
(Revised 2018)	relation to operating activities
Thai Standing Interpretations Committee No. 15	Operating leases – incentives
(Revised 2018)	
Thai Standing Interpretations Committee No. 25	Income taxes – changes in the tax status
(Revised 2018)	of an entity or its shareholders
Thai Standing Interpretations Committee No. 27	Evaluating the substance of transactions
(Revised 2018)	involving the legal form of a lease
Thai Standing Interpretations Committee No. 29	Service concession arrangements:
(Revised 2018)	Disclosures
Thai Standing Interpretations Committee No. 32	Intangible assets – web site costs
(Revised 2018)	
Thai Financial Reporting Interpretations Committee No. 1	Changes in existing decommissioning,
(Revised 2018)	restoration and similar liabilities

Thai Financial Reporting Interpretations Committee No. 4	Determining whether an arrangement
(Revised 2018)	contains a lease
Thai Financial Reporting Interpretations Committee No. 5	Rights to interests arising from
(Revised 2018)	decommissioning, restoration and
	environmental rehabilitation funds
Thai Financial Reporting Interpretations Committee No. 7	Applying the restatement approach
(Revised 2018)	under TAS 29 (Revised 2018) Financial
	reporting in hyperinflationary economies
Thai Financial Reporting Interpretations Committee No. 10	Interim financial reporting and impairment
(Revised 2018)	
Thai Financial Reporting Interpretations Committee No. 12	Service concession arrangements
(Revised 2018)	
Thai Financial Reporting Interpretations Committee No. 14	TAS 19 (Revised 2018) Employee
(Revised 2018)	benefits – the limit on a defined benefit
	asset, minimum funding requirements
	and their interaction
Thai Financial Reporting Interpretations Committee No. 17	Distributions of non-cash assets to
(Revised 2018)	owners
Thai Financial Reporting Interpretations Committee No. 20	Stripping costs in the production
(Revised 2018)	phase of a surface mine
Thai Financial Reporting Interpretations Committee No. 21	Levies
(Revised 2018)	
Thai Financial Reporting Interpretations Committee No. 22	Foreign currency transactions and
	advance consideration
Thai Financial Reporting Standard No. 15 - Revenue from co	ontracts with customers - will replace the

Thai Financial Reporting Standard No. 15 - Revenue from contracts with customers - will replace the current accounting standards, interpretation to accounting standards and interpretation to financial reporting standards listed below.

Thai Accounting Standard No. 11 (Revised 2017)	Construction contracts
Thai Accounting Standard No. 18 (Revised 2017)	Revenue
Thai Standing Interpretations Committee No. 31	Revenue – barter transactions involving
(Revised 2017)	advertising services
Thai Financial Reporting Interpretations Committee No. 13	Customer loyalty programmes
(Revised 2017)	
Thai Financial Reporting Interpretations Committee No. 15	Agreements for the construction of real
(Revised 2017)	estate
Thai Financial Reporting Interpretations Committee No. 18	Transfers of assets from customers
(Revised 2017)	

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The underlying principle of the new accounting standards is that the Group will recognise revenue to depict the transfer of goods or services to customers and the customer has control of these. It replaces the principles of transferring the significant risks and rewards of ownership of the goods or services to the buyer.

The Group's management has assessed and concluded that these new and revised accounting standards, financial reporting standards, interpretation to accounting standards and interpretation to financial reporting standards are implemented without significant impact to the financial statements presented.

Effective for the periods beginning on or after January 1, 2020

Thai Accounting Standard No. 1	Presentation of financial statements
Thai Accounting Standard No. 2	Inventories
Thai Accounting Standard No. 7	Statement of cash flows
Thai Accounting Standard No. 8	Accounting policies, changes in
	accounting estimates and errors
Thai Accounting Standard No. 10	Events after the reporting period
Thai Accounting Standard No. 12	Income taxes
Thai Accounting Standard No. 16	Property, plant and equipment
Thai Accounting Standard No. 19	Employee benefits
Thai Accounting Standard No. 20	Accounting for government grants and
	disclosure of government assistance
Thai Accounting Standard No. 21	The effects of changes in foreign
	exchange rates
Thai Accounting Standard No. 23	Borrowing costs
Thai Accounting Standard No. 24	Related party disclosures
Thai Accounting Standard No. 26	Accounting and reporting by retirement
	benefit plans
Thai Accounting Standard No. 27	Separate financial statements
Thai Accounting Standard No. 28	Investments in associates and joint
	ventures
Thai Accounting Standard No. 29	Financial reporting in hyperinflationary
	economies
Thai Accounting Standard No. 32	Financial instruments presentation
Thai Accounting Standard No. 33	Earnings per share
Thai Accounting Standard No. 34	Interim financial reporting
Thai Accounting Standard No. 36	Impairment of assets

Thai Accounting Standard No. 37 Provisions, contingent liabilities and contingent assets Thai Accounting Standard No. 38 Intangible assets Thai Accounting Standard No. 40 Investment property Thai Accounting Standard No. 41 Agriculture Thai Financial Reporting Standard No. 1 First-time adoption of Thai financial reporting standards Thai Financial Reporting Standard No. 2 Share-based payment Thai Financial Reporting Standard No. 3 Business combinations Thai Financial Reporting Standard No. 4 Insurance contracts Thai Financial Reporting Standard No. 5 Non-current assets held for sale and discontinued operations Exploration for and evaluation of mineral Thai Financial Reporting Standard No. 6 resources Thai Financial Reporting Standard No. 7 Financial instruments: disclosures Thai Financial Reporting Standard No. 8 Operating segments Thai Financial Reporting Standard No. 9 Financial instruments Thai Financial Reporting Standard No. 10 Consolidated financial statements Thai Financial Reporting Standard No. 11 Joint arrangements Disclosure of interests in other entities Thai Financial Reporting Standard No. 12 Thai Financial Reporting Standard No. 13 Fair value measurement Thai Financial Reporting Standard No. 15 Revenue from contracts with customers Thai Financial Reporting Standard No. 16 Leases Thai Standing Interpretations Committee No. 10 Government assistance - no specific relation to operating activities Thai Standing Interpretations Committee No. 25 Income taxes - changes in the tax status of an entity or its shareholders Thai Standing Interpretations Committee No. 29 Service concession arrangements: disclosures Thai Standing Interpretations Committee No. 32 Intangible assets – web site costs Thai Financial Reporting Interpretations Committee No. 1 Changes in existing decommissioning, restoration and similar liabilities Thai Financial Reporting Interpretations Committee No. 5 Rights to interests arising from decommissioning, restoration and environmental rehabilitation funds

Thai Financial	Reporting Interpretations Committee No. 7	Applying the restatement approach
		under TAS 29 Financial reporting in
		hyperinflationary economies
Thai Financial	Reporting Interpretations Committee No. 10	Interim financial reporting and
		impairment
Thai Financial	Reporting Interpretations Committee No. 12	Service concession arrangements
Thai Financial	Reporting Interpretations Committee No. 14	The limit on a defined benefit asset,
		minimum funding requirements and their
		interaction under TAS 19 Employee
		benefits
Thai Financial	Reporting Interpretations Committee No. 16	Hedges of a net investment in a foreign
		operation
Thai Financial	Reporting Interpretations Committee No. 17	Distributions of non-cash assets to
		owners
Thai Financial	Reporting Interpretations Committee No. 19	Extinguishing financial liabilities with
		equity instruments
Thai Financial	Reporting Interpretations Committee No. 20	Stripping costs in the production phase
		of a surface mine
Thai Financial	Reporting Interpretations Committee No. 21	Levies
Thai Financial	Reporting Interpretations Committee No. 22	Foreign currency transactions and
		advance consideration
Thai Financial	Reporting Interpretations Committee No. 23	Uncertainty over income tax treatments

The Group's management has assessed impact to the financial statements from the new and revised accounting standards, financial reporting standards, interpretation to accounting standards and interpretation to financial reporting standards that are not yet effective for the year ended December 31, 2019. Other than the new financial reporting standards related to financial instruments and Thai Financial Reporting Standard No.16, Lease, the new or revised accounting standards, financial reporting standards, interpretation to accounting standards and interpretation to financial reporting standards have no significant impact to the financial statements presented.

Financial instruments

The new accounting standards, financial reporting standards and interpretation to financial reporting standards related to financial instruments are:

Thai Accounting Standard No. 32	Financial instruments: presentation
Thai Financial Reporting Standard No. 7	Financial instruments: disclosures
Thai Financial Reporting Standard No. 9	Financial instruments

Thai Financial Reporting Interpretations Committee No. 16

Hedges of a net investment in a foreign operation

Thai Financial Reporting Interpretations Committee No. 19

Extinguishing financial liabilities with equity instruments

These accounting standard, financial reporting standards and interpretation to financial reporting standards will replace the accounting standards and interpretation to accounting standards in listed below.

Thai Accounting Standard No. 101	Doubtful accounts and bad debts
Thai Accounting Standard No. 103	Disclosures in the financial statements of
	banks and similar financial institutions
Thai Accounting Standard No. 104 (Revised 2016)	Accounting for troubled debt
	restructurings
Thai Accounting Standard No. 105 (Revised 2016)	Accounting for investments in debt and
	equity securities
Thai Accounting Standard No. 106	Accounting for investment entities
Thai Accounting Standard No. 107 (Revised 2016)	Financial instruments: disclosure
	and presentation
Thai Standing Interpretations Committee No. 9	Assets transferred by debtors for debt
	settlement

These new financial reporting standards related to financial instruments address the classification, measurement, derecognition of financial assets and financial liabilities, impairment of financial assets, hedge accounting, and presentation and disclosure of financial instruments.

On January 1, 2020, the Group will apply the new financial reporting standards on financial instuments by applying modified retrospective approach. From the preliminary assessment, the management expect that the Group will be significantly affected on the following areas.

Classification of financial liabilities and equity

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

- Where the Group has a contractual obligation to deliver cash or another financial asset to another entity without the right to avoid or indefinitely postpone the payment, it is considered a financial liability unless that payment can be settled by issuing a fixed number of the Group's own equity instruments in exchange with a fixed amount of cash.

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- Where the group has no contractual obligation or has an unconditional right to postpone the settlement of the obligation, it is considered an equity instrument.

Currently, the Group has subordinated capital debentures which are classified as equity since 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 stipulated. 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 paragraph 25 of TAS 32, Financial instruments: presentation, which will be effective for the periods beginning on or after January 1, 2020 onwards, there are certain conditions in the indenture of subordinated capital debentures, which 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 must be classified as financial liabilities. However, in accordance with an announcement issued by the Federation of Accounting Professions (TFAC) no. 95/2562, it allows the classification of the subordinated capital debentures which was issued and paid-up before December 31, 2019 as a part of equity. The relief is granted until December 31, 2022.

On December 31, 2019, the Group has subordinated capital debentures of US Dollar 187.43 million (Baht 6,018.03 million) in the consolidated financial statements, and US Dollar 156.57 million (Baht 4,981.99 million) in the Company's financial statements. The Group will classify these subordinated capital debentures as a part of equity for the periods beginning on or after January 1, 2020.

Thai Financial Reporting Standard No.16, Leases

According to TFRS 16, Leases, the Group, as a lessee, must change the recognition of lease contract.

A right-of-use asset and a lease liability will be recognised in the statements of financial position, with exception on short-term and low-value assets leases.

On January 1, 2020, the Group will apply TFRS 16, Leases, by recognising a cumulative effect as an adjustment to opening retained earnings (Modified retrospective approach). Hence, comparative financial statements will not be restated. From the preliminary impact assessment, the management expect that, by compared to operating lease recognition according to Thai Accounting Standards No. 17, Leases, (TAS 17), the Group will be affected by the classification of expenses and cash flow activities, and the recognition of time value of money in the statements of income. However, there will be no effect to leases which the Group currently reported as finance lease liabilities under TAS 17. The Group's management is currently evaluating the impact of adopting the financial reporting standard for the first time.

4. Significant Accounting Policies

4.1 Preparation of Consolidated Financial Statements

The consolidated financial statements comprise the Company, subsidiaries, associates, joint ventures and joint operations. The major inter-company transactions between the Company, subsidiaries, associates, joint ventures and joint operations are eliminated from the consolidated financial statements.

Subsidiaries

Subsidiaries are 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 using its power over the entity, including the authority to control the finance and operation policies and generally has more than one half of the voting rights. In assessing the ability to control other entities, the Group considers the existence and the impact of the convertible rights of the instruments, including the potential voting rights in which other entities within the Group have interests. Subsidiaries are consolidated from the date on which control is transferred to the Group and will be disconsolidated from the date that control ceases.

The Group uses the purchase method of accounting to account for the acquisition of subsidiaries. The cost of an acquisition is measured at the fair value of the assets given, equity instruments issued or liabilities incurred at the date of exchange, plus other costs directly attributable to the acquisition. Identifiable assets and liabilities acquired from a business combination are measured initially at their fair values at the acquisition date.

The excess of the cost of acquisition over the fair value of the Group's share of the subsidiary's identifiable net assets acquired is recorded as goodwill. On the other hand, if the cost of acquisition is less than the fair value of the Group's share of the subsidiary's identifiable net assets, the difference is recognized immediately in the statement of income.

Investments in subsidiaries are accounted for at cost less provision for impairment in the Company's financial statements. The cost is adjusted to reflect changes in contingent consideration expected to be paid. The cost also includes direct attributable costs of investment. The Company determines at each reporting date whether there is any indicator that the investment in subsidiaries is impaired. If the indicators exist, the Company will conduct an impairment test. If the recoverable amount of the investment is lower than its carrying value, the Company will recognize the loss in the Company's statement of income.

A list of subsidiaries is set out in Note 19.



Associates

Associates are those entities over which the Group has significant influence over their finance and operation policies, but does not have the ability to control. Investments in associates are accounted for using the equity method in the consolidated financial statements from the date on which the Group gains significant influence until the date that significant influence ceases.

Under the equity method, the investment is initially recognized at cost. Subsequently, the carrying amount is increased or decreased based on the investor's share of the profit or loss of the investee. The Group's investment in associates includes goodwill identifiable on acquisition.

If the ownership interest in an associate is reduced but significant influence is retained, the Group will reclassify only a proportionate decrease in share ownership previously recognized in other comprehensive income to profit or loss.

The Group's share of its associates' post-acquisition profits or losses and its share of post-acquisition profits or losses in other comprehensive income (loss) are recognized in the statement of income and statement of comprehensive income, respectively. The cumulative post-acquisition movements are adjusted against the carrying amount of the investments. When the Group's share of losses in associates equals or exceeds its interest in the associates, the Group does not recognize further losses, unless it has incurred obligations or has committed to make payments for the liabilities on behalf of the associates.

Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been changed where necessary to ensure consistency with the policies adopted by the Group.

The Group determines at each reporting date whether there is any objective evidence that the investment in associates is impaired. If the indicators exist, the Group calculates the amount of impairment as the difference between the recoverable amount of the associate and its carrying value and recognizes the amount to the share of profit (loss) of associates in the statement of income.

Investments in associates are accounted for at cost less provision for impairment in the Company's financial statements. The cost is adjusted to reflect changes in contingent consideration expected to be paid. The cost also includes direct attributable costs of investment.

A list of associates is set out in Note 19.



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. The Group has assessed the nature of its joint arrangements and determined them to be joint ventures and joint operations as follows:

Joint Ventures

Joint arrangement is classified as joint venture when the Group has rights to the net assets of the arrangement. Investments in joint ventures are accounted for using the equity method in the consolidated financial statements. They are initially recognized at cost and adjusted thereafter to recognize the Group's share of the post-acquisition profits or losses and movements in other comprehensive income (loss) based on its share proportion. When the Group's share of losses in joint ventures equals or exceeds its interests in the joint ventures (including any long-term interests that, in substance, form part of the Group's net investments in the joint ventures), the Group will not recognize further losses, unless it has incurred obligations or has committed to make payments for the liabilities on behalf of the joint ventures.

Unrealized gains on transactions between the Group and its joint ventures are eliminated to the extent of the Group's interest in the joint ventures. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Where necessary, accounting policies of the joint ventures have been changed to be conformed with the policies adopted by the Group.

Investments in joint ventures are accounted for at cost less provision for impairment in the Company's financial statements. The cost is adjusted to reflect changes in contingent consideration expected to be paid. The cost also includes direct attributable costs of investment.

Joint Operations

The Group has classified its investments in the joint arrangements in which the group has the rights to the assets, and obligations for the liabilities relating to the arrangement as joint operations. The Group recognized for its share of assets, liabilities, revenues and expenses relating to the joint operations in accordance with the Group's accounting policies which relate to those assets, liabilities, revenues and expenses.

The Group has not recognized its share of profit or loss resulting from the purchase of assets from the joint operations until the assets are sold to an independent third party.

For details of joint ventures and joint operations, please refer to Note 19.



Related Parties

(Unofficial Translation)

Related parties are those entities that directly or indirectly control, or are controlled by the Company, or are under common control with the Company. They also include holding companies, fellow subsidiaries, associates and joint ventures.

In considering each relationship between parties, attention is directed to the substance of the relationship, not merely the legal form.

4.2 Foreign Currency Translation

Transactions included in the financial statements of each entity in the Group are measured using US Dollar which is the Group's functional currency.

Foreign currency transactions are translated into functional currency at the exchange rates ruling on the transaction dates. Monetary assets and liabilities denominated in foreign currency remaining at the statement of financial position date are translated into functional currency at the exchange rate ruling on the statement of financial position date. Gains and losses arising from the settlement of foreign currency transactions and from the translation of monetary assets and liabilities denominated in foreign currencies are recognized in the statement of income in the period in which they are incurred.

To comply with the financial reporting requirements of the Stock Exchange of Thailand and the Department of Business Development, the Group presents the consolidated 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 is translated using average exchange rates during the period. Differences from such translations have been presented in other comprehensive income (loss).

4.3 Cash and Cash Equivalents

Cash and cash equivalents comprise cash on hand and at banks, and other highly liquid short-term investments with original maturities of three months or less from the date of acquisition.

4.4 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 subsequently recognized at amortized 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 recognize the loss on decrease in value of investments in the statements of income.

The embedded derivatives in financial assets and liabilities are separately recognized 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 derivatives significantly modify the cash flows that otherwise would be required by the contract.

4.5 Investment in Trading Securities

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

Investments in trading securities are initially recognized 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 unrealized gains and losses of investments in trading securities are recognized in the statements of income.

4.6 Trade Accounts Receivable

Trade accounts receivable are carried at net realizable value. An allowance for doubtful accounts is estimated, based on the review of all outstanding trade accounts receivable as at the statements of financial position date. The amount of the allowance is the difference between the carrying amount of the accounts receivable and the amount expected to be collected. Doubtful accounts are recognized as expenses in the statements of income in the year in which they are incurred.

4.7 Inventories

Inventories are stated at the lower of cost or net realizable value. The cost is determined using the weighted average cost method. Net realizable value is the estimated selling price in the ordinary course of business less the costs of completion and selling expenses.

4.8 Materials and Supplies

Materials and supplies are stated at the lower of cost or net realizable value. The costs of materials and supplies are determined using the weighted average cost method. The net realizable value is the estimated selling price in the ordinary course of business less the necessary expenses.

4.9 Investments in Available-for-sale Securities

Investments in available-for-sale securities are initially recognized 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 sources. Unrealized gains or losses of investments in available-for-sale securities are recognized in other comprehensive income (loss).

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A test for 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 recognized in the statements of income.

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

4.10 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 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 recognize the impairment loss in the statements of income.

A list of other long-term investments is set out in Note 20.

4.11 Finance Costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until the assets are ready for their intended use or sale. Capitalization shall cease when substanstially all of the activities necessary to prepare the qualifying assets for its intended use or sale are completed.

For general borrowings, the Group capitalized the borrowing costs as part of the respective assets using the capitalization rate which is calculated from the weighted average interest rate of the borrowings during the year.

When borrowings are incurred for specific construction or production of qualifying assets, the borrowing costs which are capitalized as part of the costs of the respective assets are borrowing costs incurred during the year less income earned from temporary investment of such borrowings.

The Group records the transaction cost as the deduction from the share premium. The transaction cost comprises direct expense incurred for capital raising activities, such as fees, cost of publishing the offering memorandum, financial advisor fees, etc.

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

4.12 Property, Plant and Equipment

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

Oil and Gas Properties

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

Cost of Properties

Costs of properties 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 capitalized 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 capitalized as oil and gas properties.

Depreciation and Depletion

The capitalized 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 recognizes 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 of 10 years in accordance with the agreement.



(Unofficial Translation)

Pipelines and Others

Costs of properties comprise purchase prices and 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

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

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

The cost of major renovations is included in the carrying amount of the asset when it is probable that future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the Group.

Repair and maintenance costs are recognized as expenses when incurred.

4.13 Carried Costs under Petroleum Sharing Contract

Under Petroleum Sharing Contracts in which the government has a participating interest, some contracts require the contracting parties, excluding the government, to fund the costs of all exploration operations until the first development area is determined. During the exploration period, the contracting parties will carry an agreed upon proportion of the government's exploration costs (Carried Costs). When the project commences production, such carried costs will be fully recouped or recovered without interest by the contracting parties from the production of petroleum under the agreed procedures. The Group classifies the carried costs based on petroleum activities under the Successful Efforts Method. The majority of them are recognized in oil and gas properties, exploration and evaluation assets in the statements of financial position and exploration expenses in the statements of income.

4.14 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 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 investments in associates and joint ventures.

Goodwill is not amortized but is annually tested for impairment. Goodwill is allocated to cash-generating units for the purpose of impairment testing. The allocation is made to a single cash-generating unit or 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.

4.15 Intangible Assets

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

Research expenditures are recognized as expenses when incurred. Development cost is recognized as intangible assets when the value can be reliably measured and when the project is assessed that it is technically feasible and is able to provide future economic benefits.

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

Intangible assets are amortized using the straight-line method according to asset's useful life but not exceeding 30 years.

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

4.16 Exploration and Evaluation Assets

Exploration and evaluation expenditures are capitalized at cost as exploration and evaluation assets. If the projects have identified the proved reserves that have been found to be commercially producible, the capitalized exploration and evaluation expenditures under these projects will be transferred to oil and gas properties of the projects with proved reserves. Subsequent accounting is described in the accounting policy for property, plant and equipment in Note 4.12 - Property, Plant and Equipment.

The capitalized 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.

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4.17 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 recognized 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 amortization or depreciation), if the Group did not recognize the impairment loss for assets in the prior period.

4.18 Income Taxes

Income tax expenses for the period comprise current and deferred taxes. Income taxes are recognized in profit or loss, except to the extent that they relate to items recognized in other comprehensive income (loss) or items directly recognized in equity which must be recognized in other comprehensive income (loss) or directly recognized in equity, respectively.

The current income taxes are calculated using the tax rates as identified by tax laws enacted or substantively enacted by the end of reporting period in the countries where the Group and its subsidiaries operate and generate taxable income.

Deferred income taxes are recognized on temporary differences between the tax base of assets and liabilities and their carrying amounts in the financial statements.

However, the deferred income taxes are not accounted for if they arise from initial recognition of assets or liabilities in transactions other than a business combination, that at the time, the transactions affect neither accounting nor taxable profit or loss. Deferred income taxes are determined using tax rates (and tax laws) that have been enacted or substantially enacted by the end of the reporting period and are expected to be applied when the related deferred income tax assets are realized or the deferred income tax liabilities are settled.

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

Deferred income tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred income tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the balances on a net basis.

4.19 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 "Deferred Remuneration under Agreement", and amortized over the contract life using the straight-line method.

4.20 Borrowings

The Group records its borrowings at the fair value of the proceeds received, net of transaction costs incurred.

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

4.21 Leases

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 capitalized 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 recognized 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 recognized on a straight-line basis over the lease term.

4.22 Employee Benefits

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

Post-employment Benefits

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

Defined Contribution Plans

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 recognized immediately in the statements of income.

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 recognized in the statements of income in the period in which they arise.

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

4.23 Capital Risk Management

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

4.24 Reserve for Expansion

The Group has 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.

4.25 Revenue Recognition

Revenue from contracts with customers is recognized 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.

Interest income is recognized on an effective interest rate basis.

Revenues other than those mentioned above are recognized on an accrual basis.

4.26 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 recognized as deferred income. This deferred income is recognized in the statements of income when the gas is subsequently taken.



4.27 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.

4.28 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.

4.29 Financial Instruments

Financial Assets and Financial Liabilities

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

Financial assets and financial liabilities are initially recognized at fair value. In case that financial assets or financial liabilities are not initially recognized at fair value through statements of income, they are recognized 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.

Loans and receivables, and held-to-maturity financial assets, as well as financial liabilities measured at amortized cost are initially recognized at fair value, net of the transaction cost and are subsequently measured at amortized cost using the effective interest method with gains or losses recognized 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 recognized as gains or losses in the statements of income

Derivative Financial Instruments and Hedging

The Group recognizes derivative financial instruments in the statements of financial position at fair value and recognizes the changes in the fair value as gains or losses.

For instruments which the Group wishes to claim for hedge accounting as identified in the accounting standard, the hedging instrument effectiveness portion is offset against the hedged item's fair value. When the Group enters into the fair value hedge instruments, the change in fair value of a hedge derivative as well as the change in the fair value of the hedged item attributable to the risk being hedged are recognized as gains or losses.

For cash flow hedges, the effective portion of the gain or loss on the hedging instrument is recognized within other comprehensive income (loss) by presenting in a separate item. Amounts taken to other comprehensive income (loss) are transferred to the statements of income when the hedged transaction affects profit or loss. The ineffective portion is immediately recognized as gains or losses when incurred.



5. Reclassification and Adjustment

The Group has reclassified and adjusted exploration and evaluation assets from business acquisition in the current year and comparative consolidated financial statements. However, there is no impact on the consolidated statements of income for the periods ended 31 December 2019 and consolidated statements of cash flows for the period ended 31 December 2019. The effects of increase (decrease) on the consolidated financial statements are as follows:

	Unit: Million US Dollar Unit: Mil			Init: Million Baht	
	Consolidated			Consolidated	
	Dec 31, 2018	Jan 1, 2018	Dec 3	1, 2018	Jan 1, 2018
Statements of financial position					
Goodwill	153.20	153.20		4,971.38	5,006.78
Exploration and evaluation assets	(240.44)	(240.44)	(7	',802.24)	(7,857.80)
Deferred tax liabilities	(72.13)	(72.13)	(2	2,340.67)	(2,357.34)
Retain earnings - unappropriated	(15.11)	(15.11)		(533.51)	(533.51)
Other components of					
shareholders' equity	-	-		43.32	39.83
		Linette Mattion	LIC D-II	1.1.	-it. Million Dolet
		Unit: Million			nit: Million Baht
		Consolic	lated	Cons	solidated
		Dec 31,	2018	Dec	31, 2018
Statement of comprehensive income for the year					
Items that will be reclassified subsequen	tly to profit or loss				
Exchange differences on translating fir	nancial statement		-		3.49
Total items that will be reclassified sub	sequently to				
profit or loss			-		3.49
Other comprehensive income (loss) fo	r the year -				
net of tax			-		3.49
Total comprehensive income (loss) for	the year		-		3.49

6. Business Acquisition in Murphy Oil Corporation in Malaysia

On March 21, 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 SK405B project. The acquisition was completed on July 10, 2019.

Details of acquired net identifiable assets on acquisition date and goodwill are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
	Fair Value	Fair Value
Cash and cash equivalents	58.90	1,816.86
Trade accounts receivable	138.04	4,257.70
Other accounts receivable	59.09	1,822.63
Inventories	7.78	240.00
Materials and supplies	19.60	604.51
Current tax assets	16.50	508.89
Other current assets	11.26	347.26
Property, plant and equipment	1,627.38	50,194.82
Intangible assets	2.49	76.71
Exploration and Evaluation Assets	410.46	12,660.24
Deferred tax assets	98.13	3,026.87
Rights to receive reimbursement from	48.64	1,500.26
decommissioning funds		
Other non-current assets	4.39	135.49
Trade accounts payable	(6.28)	(193.74)
Working capital to co-venturers	(67.41)	(2,079.09)
Accrued expenses	(92.05)	(2,839.08)
Other current liabilities	(35.80)	(1,104.31)



	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
	Fair Value	Fair Value
Long-term loans	(150.14)	(4,631.07)
Deferred tax liabilities	(17.92)	(552.65)
Provision for decommissioning costs	(268.65)	(8,286.43)
Total	1,864.41	57,505.87
Less Deferred tax liabilities from the effect of		
accounting	(344.71)	(10,632.18)
Net identifiable assets	1,519.70	46,873.69
Goodwill	611.16	18,850.58
Total consideration	2,130.86	65,724.27

Goodwill of US Dollar 611.16 million (Baht 18,850.58 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 the identifiable assets acquired and liabilities assumed may be adjusted to reflect new information obtained about facts and circumstances that existed as of the acquisition date, however, the measurement period shall not exceed one year from the date which the Group has control.

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. The deferred consideration is presented in other non-current liabilities in the consolidated financial statements.

7. Business Acquisition in Partex Holding B.V.

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

Details of acquired net identifiable assets on acquisition date and goodwill are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
	Fair Value	Fair Value
Cash and cash equivalents	139.12	4,196.90
Trade accounts receivable	45.52	1,373.26
Other accounts receivable	0.80	24.16
Materials and supplies	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 accounts payable	(59.70)	(1,800.82)
Accrued expenses	(11.88)	(358.44)
Tax payables	(12.95)	(390.66)
Other current liablilities	(0.14)	(4.52)
Deferred tax liablilities	(152.54)	(4,601.64)
Provision for employee benefit	(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
<u>Less</u> Deferred tax liablilities 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 assets acquired from the acquisition and the book value which is the tax base of these net assets. The fair value of the identifiable assets acquired and liabilities assumed may be adjusted to reflect new information



obtained about facts and circumstances that existed as of the acquisition date, however, the measurement period shall not exceed one year from the date which the Group has control.

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.

8. Major Estimates and Assumptions

In order to prepare the financial statements in conformity with the accounting standards, management is required to use estimates and assumptions which impact assets, liabilities, revenues and expenses. The data relating to the major assumptions and uncertainties in the estimate which may have an impact on the carrying amount of assets, liabilities, revenues and expenses presented in the financial statements are as follows:

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.

Exploration Costs

Capitalized exploration drilling costs are expensed unless (1) proved reserves are booked or (2) commercially producible quantities of reserves are found and they are subject to further exploration or appraisal activity. In making decisions about whether to continue capitalizing exploration drilling costs, it is necessary to make assumptions about the satisfaction of each condition in the present event. If there is a change in one of these assumptions in a subsequent period, the related capitalized exploration drilling costs would be expensed in that period.

Impairment of Assets

The Company assesses the impairment of assets based on the estimate using the discounted future cash flows. The expected future cash flows 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 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.

Goodwill and Intangible Assets

For recognition and measurement of goodwill and intangible assets as of the acquisition date as well as subsequent impairment testing, management uses estimated future cash flows from assets or cash-generating unit and appropriate discount rate to determine the present value of future cash flow calculation.

Income Tax

The Group is subject to income taxes in numerous jurisdictions. Significant judgments are required to determine the worldwide provision for income taxes due to the fact that there are many transactions and calculations for which the ultimate tax determination is uncertain during the ordinary course of business. The Group recognizes liabilities for anticipated tax based on estimates of whether additional taxes will be due. Where the final tax outcome of these matters is different from the amounts that were initially recorded, such differences will affect the income tax and deferred tax provisions in the period in which such determination is made.

Deferred tax assets are recognized to the extent that it is probable that future taxable profits will be available against which the temporary differences can be utilized. Management is required to make an estimate of the number of the deferred tax assets that should be recognized by considering the assumption about the probable future tax benefits in each period. There may be uncertainty associated with the assumption used for the future taxable income in terms of whether any change will affect the recognition of the deferred tax asset.

Lease

In considering whether a lease agreement is an operating lease or a finance lease, management has exercised judgment in assessing terms and conditions of the agreement to ensure whether the risks and rewards of assets are transferred to the Group or not.

Employee Benefits

The provision for employee benefits is estimated based on the amount of future benefits that employees will have earned in return for their services provided to the Group in the current and in future periods. The calculation is performed by an independent actuary using the Projected Unit Credit Method and the relevant assumptions which include financial and demographic assumptions as disclosed in Note 31.

Provisions

The provisions, except for the provision for employee benefits, are recognized when the Group has a present legal or constructive obligation as a result of a past event and it is probable that an outflow of resources will be required to settle the obligation and the amount can be reliably estimated.

Provision for Decommissioning Costs

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 recognizes 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 amortized based on the unit of production of the proved reserve or the proved developed reserve. The Group recognizes 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.

Provision for Remuneration for the Renewal of Petroleum Production

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.

9. Cash and Cash Equivalents

Cash and cash equivalents comprised:

	Unit: Million US Dollar		Unit: Million Bah	
	Consolidated		Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Cash on hand and at banks	1,867.51	625.04	56,312.82	20,282.30
Cash equivalents				
- Fixed deposits	900.56	2,009.35	27,155.62	65,203.14
- Debt securities	19.68	515.77	593.32	16,736.58
- Money market fund	35.15	29.94	1,059.88	971.54
Total	2,822.90	3,180.10	85,121.64	103,193.56
				'
	Un	it: Million US Dollar		Unit: Million Baht
	The Cor	mpany	The C	ompany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Cash on hand and at banks	45.24	31.93	1,364.07	1,036.05
Cash equivalents				
- Fixed deposits	635.38	400.22	19,159.32	12,987.26
- Money market fund	35.15	29.94	1,059.88	971.54
Total	715.77	462.09	21,583.27	14,994.85

The interest rate on saving deposits held at call with banks for the year ended December 31, 2019 is between 0.00% - 2.65% per annum (during the year 2018: interest rate was between 0.00% - 2.50% per annum). The interest rate on fixed deposits with banks for the year ended December 31, 2019 is between 0.50% - 5.77% per annum (during the year 2018: interest rate was between 0.83% - 6.08% per annum).

The interest rate on debt securities for the year ended December 31, 2019 is between 1.11% - 1.77% per annum (during the year 2018: interest rate was between 1.00% - 1.47% per annum).

10. Short-term investments

Short-term investments comprised:

	Ur	nit: Million US Dollar	Unit: Million Bal	
	Consolidated		Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Fixed deposits	200.00	770.66	6,030.80	25,007.80
Debt securities (with embedded derivatives)	-	49.87	-	1,618.26
Total	200.00	820.53	6,030.80	26,626.06
	Ur	nit: Million US Dollar		Unit: Million Baht
	The Co	The Company The Company		mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Fixed deposits	200.00	412.83	6,030.80	13,396.28
Debt securities (with embedded derivatives)	-	49.87	-	1,618.26
Total	200.00	462.70	6,030.80	15,014.54

The interest rate on fixed deposits with banks that have maturity more than 3 months but within 12 months for the year ended December 31, 2019 is between 2.63% - 3.60% per annum (during the year 2018: interest rate was between 1.64% - 3.10% per annum).

Short-term investment in debt securities (with embedded derivatives) that have maturity within 12 months and will be held to maturity, is a financial asset with embedded derivative. The Group classified this short-term investment in debt securities as financial asset measured at the fair value because the embedded derivatives can significantly modify the cash flow of the main instrument. The change in fair value will be recognized through profit or loss.

Movements of short-term investment in debt securities (with embedded derivatives) for the year are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	49.87	1,618.26
Decrease	(50.00)	(1,551.75)
Gain on changes in fair value	0.13	4.05
Currency translation differences	-	(70.56)
Balance as at December 31, 2019	-	-

......

0.35

6.34

(100.50)

	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	49.87	1,618.26
Decrease	(50.00)	(1,551.75)
Gain on changes in fair value	0.13	4.05
Currency translation differences	<u>-</u>	(70.56)
Balance as at December 31, 2019	-	

11. Investments in Trading Securities

Foreign exchange differences

Currency translation differences

Balance as at December 31, 2019

Movements in the investments in trading securities for the year are as follows:

3	,	
	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	70.55	2,289.34
Increase	1,250.18	38,799.23
Decrease	(1,119.02)	(34,728.73)
Gain on changes in fair value	0.47	15.04
Foreign exchange differences	11.52	357.52
Currency translation differences		(288.40)
Balance as at December 31, 2019	213.70	6,444.00
	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	70.54	2,289.08
Decrease	(70.00)	(2,172.45)
Loss on changes in fair value	(0.34)	(10.14)

0.01

0.21

12. Investments in Available-for-sale Securities

Investments in available-for-sale securities comprised:

	Unit	: Million US Dollar	Unit: Million Bah	
	Consol	idated	Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Current portion of investments in				
available-for-sale securities	-	10.45	-	339.10
Non-current portion of investments in				
available-for-sale securities	0.52	0.56	15.81	18.07
Total	0.52	11.01	15.81	357.17
	Un	it: Million US Dollar	LIni	it: Million Raht

	Unit: Million US Dollar		Unit: Million Baht				
	The Company		The Company		The Company The Compa		mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018			
Current portion of investments in							
available-for-sale securities	-	10.45	-	339.10			
Total	-	10.45	-	339.10			

Movements in the investments in available-for-sale securities for the year are as follows:

Unit: Million US Dollar	Unit: Million Baht
Consolidated	Consolidated
11.01	357.17
(10.44)	(324.14)
(0.05)	(1.31)
	(15.91)
0.52	15.81
	Consolidated 11.01 (10.44) (0.05)

	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	10.45	339.10
Decrease	(10.44)	(324.14)
Loss on changes in fair value	(0.01)	(0.19)
Currency translation differences		(14.77)
Balance as at December 31, 2019		-

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Total

12,950.47

13. Account Receivable - Parent Company

Account receivable - parent company comprised:

	Unit	:: Million US Dollar	Unit: Million Bal	
	Conso	onsolidated Consolidate		lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Sales of petroleum products	534.84	637.13	16,127.47	20,674.75
Total	534.84	637.13	16,127.47	20,674.75
	Unit	t: Million US Dollar		Unit: Million Baht
	The Company		The Co	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Sales of petroleum products	353.32	399.09	10,653.92	12,950.47

The analysis of account receivable - parent company based on outstanding age groups is shown below.

353.32

399.09

10,653.92

	Unit	:: Million US Dollar	Unit: Million Bah	
	Conso	lidated	Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Not yet due	505.14	633.54	15,231.96	20,558.19
Past due				
- Up to 3 months	0.75	-	22.75	-
- Over 3 months but not more than 6 months	-	0.21	-	6.92
- Over 6 months but not more than 12 months	27.91	0.91	841.54	29.59
- Over 12 months	2.14	2.47	64.35	80.05
	535.94	637.13	16,160.60	20,674.75
<u>Less</u> Allowance for doubtful accounts	(1.10)		(33.13)	
Total	534.84	637.13	16,127.47	20,674.75

	Unit: Million US Dollar			Unit: Million Baht	
	The Co	ompany	The Co	mpany	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Not yet due	323.99	395.70	9,769.57	12,840.45	
Past due					
- Up to 3 months	0.45	-	13.55	-	
- Over 3 months but not more than 6 months	-	0.01	-	0.38	
- Over 6 months but not more than 12 months	27.90	0.91	841.21	29.59	
- Over 12 months	2.08	2.47	62.72	80.05	
	354.42	399.09	10,687.05	12,950.47	
Less Allowance for doubtful accounts	(1.10)		(33.13)		
Total	353.32	399.09	10,653.92	12,950.47	



Unit: Million Baht

14. Trade Accounts Receivable

Trade accounts receivable comprised:

	Un	it: Million US Dollar	Unit: Million Baht	
	Consolidated		Conso	lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
ADNOC-Abu Dhabi National Oil Company	4.73	-	142.63	-
Binh Son Refining & Petrochemical Co.,Ltd.	12.26	3.07	369.69	99.65
Hengyuan Refining Company Berhad	87.68	-	2,643.78	-
Itochu Corporation	5.11	-	154.14	-
Myanmar Oil and Gas Enterprise	37.19	43.64	1,121.40	1,416.02
Oman Trading International	28.45	-	857.81	-
Petco Trading Labuan Company Limited	6.56	5.01	197.80	162.51
Petroliam Nasional Berhad	34.63	13.90	1,044.28	450.93
Petron Malaysia Refining & Marketing	21.08	-	635.68	-
PetroVietnam Oil Corporation	4.08	3.96	123.11	128.57
PT Pertamina (Persero)	0.98	-	29.57	-
Repsol Trading Singapore PTE LTD.	-	2.76	-	89.66
SembCorp Gas Pte Ltd.	4.97	5.00	149.83	162.28
Star Petroleum Refining Plc.	4.60	9.27	138.68	300.93
Vietnam National Oil and Gas Group	0.52	0.38	15.62	12.42
VITOL CENTRAL ASIA S.A.	5.33	-	160.67	-
Electricity Generating Authority of Thailand	-	0.03	-	0.95
Others	0.76	0.23	22.96	7.35
Total	258.93	87.25	7,807.65	2,831.27

	The Company		The Company	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Star Petroleum Refining Plc.	1.13	0.92	34.16	29.95
Electricity Generating Authority of Thailand	-	0.01	-	0.24
Others	0.06	0.06	1.59	1.84
Total	1.19	0.99	35.75	32.03

Unit: Million US Dollar

The analysis of trade accounts receivable based on outstanding age groups is shown below.

	Ur	nit: Million US Dollar	Unit: Million Baht	
	Consolidated		Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Not yet due	258.74	87.06	7,801.95	2,825.23
Past due				
- Up to 3 months	0.003	-	0.09	-
- Over 3 months but not more than 6 months	-	0.19	-	6.04
- Over 6 months but not more than 12 months	-	-	-	-
- Over 12 months	0.19		5.61	
Total	258.93	87.25	7,807.65	2,831.27
	Ur	nit: Million US Dollar		Unit: Million Baht
	The Co	ompany	The Co	ompany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Not yet due	1.19	0.99	35.75	32.03
Past due				
- Up to 3 months	-	-	-	-
- Over 3 months but not more than 6 months	-	-	-	-
- Over 6 months but not more than 12 months	-	-	-	-
- Over 12 months	-	-	-	-

1.19

Total

0.99

35.75

32.03

15. Inventories

Inventories comprised:

Inventories
Less Allowance for decrease in net realizable value
Total

Unit: Million US Dollar		Unit: Million Baht		
Consolidated		Consolidated		
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019 Dec 31,		
32.50	25.17	980.08	816.86	
(0.41)	(1.77)	(12.29)	(57.48)	
32.09	23.40	967.79	759.38	

Inventories
Less Allowance for decrease in net realizable value
Total

Unit: Million US Dollar Unit: Million B			Unit: Million Baht
The Co	The Company The Company		ompany
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
5.33	4.27	160.72	138.60
		-	
5.33	4.27	160.72	138.60

16. Materials and Supplies

Materials and supplies comprised:

Materials and supplies
Less Allowance for damage and obsolescence
Total

Ur	nit: Million US Dollar	Unit: Million Baht		
Consc	Consolidated Conso		lidated	
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
321.25	278.07	9,686.88	9,023.34	
(23.01)	(19.25)	(693.71)	(624.52)	
298.24	258.82	8,993.17	8,398.82	

Materials and supplies
Less Allowance for damage and obsolescence
Total

Uı	Unit: Million US Dollar Unit: Million B		
The C	ompany	The Company	
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
111.63	111.70	3,366.12	3,624.60
(12.90)	(10.30)	(389.08)	(334.12)
98.73	101.40	2,977.04	3,290.48

17. Other Current Assets

Other current assets comprised:

	Unit: Million US Dollar			Unit: Million Baht	
	Consolidated		Consolidated		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Prepaid expenses	18.25	17.26	550.36	560.20	
Accrued income	25.56	24.17	770.87	784.17	
Withholding tax and VAT	14.09	11.46	424.77	371.96	
Others	37.57	12.67	1,132.86	411.03	
Total	95.47	65.56	2,878.86	2,127.36	

	Unit: Million US Dollar		Unit: Million Baht	
	The Company		The Company	
	Dec 31, 2019 Dec 31, 2018		Dec 31, 2019	Dec 31, 2018
Prepaid expenses	9.40	9.40	283.43	304.97
Accrued income	35.29	17.40	1,064.16	564.48
Withholding tax and VAT	4.31	3.83	130.08	124.46
Others	14.54	0.13	438.37	4.11
Total	63.54	30.76	1,916.04	998.02

18. Significant Transactions with Related Parties

Significant transactions with related parties are summarized as follows:

18.1 Revenues and Expenses with Related Parties

Significant transactions with related parties for the years are as follows:

	Uni	t: Million US Dollar		Unit: Million Baht
	Consolidated		Consol	idated
	2019	2018	2019	2018
Parent company - PTT Public Company Limited (PTT)				
Sales (world market reference price)	4,917.40	4,485.55	152,646.96	145,157.05
Purchase and other expenses	4.71	24.79	146.33	800.62

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	Uni	:: Million US Dollar	l	Jnit: Million Baht
	Consolidated		Consol	idated
	2019	2018	2019	2018
Subsidiaries, associates, joint ventures and				
joint operations				
Interest income	0.63	0.60	19.46	19.43
Rental and service expenses	42.23	34.74	1,310.59	1,121.91
Other related parties				
Sales (world market reference price)	66.79	55.93	2,076.12	1,803.20
Purchase and other expenses	49.84	28.59	1,546.70	923.30
Interest income	3.14	3.27	97.61	105.51
Director and executive management				
Short - term benefits	7.65	6.40	239.26	204.94
Post - employment and other long - term benefits	0.55	0.19	16.94	6.18

	Unit	: Million US Dollar	L	Jnit: Million Baht
	The Company		The Con	npany
	2019	2018	2019	2018
Parent company - PTT Public Company Limited (PTT)				
Sales (world market reference price)	3,225.83	2,819.85	100,090.63	91,304.53
Purchase and other expenses	4.47	14.65	138.86	473.25
Subsidiaries, associates and joint operations				
Interest income	275.78	42.17	8,549.21	1,383.55
Management and service fees	0.32	0.32	10.05	10.45
Rental and service expenses	41.10	34.02	1,275.42	1,098.70
Other related parties				
Purchase and other expenses	20.09	12.50	623.48	403.75
Director and executive management				
Short - term benefits	7.64	6.40	238.95	204.94
Post - employment and other long - term benefits	0.55	0.19	16.94	6.18

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18.2 Account receivable - Related parties

Account receivable - related parties comprised:

	Unit: Million US Dollar			Unit: Million Baht
	Consolidated		Consoli	dated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Parent company - PTT Public Company				
Limited (PTT)				
Account receivable - parent company	534.84	637.13	16,127.47	20,674.75
	Unit	: Million US Dollar		Unit: Million Baht
	The Cor	mpany	The Cor	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Parent company - PTT Public Company				
Limited (PTT)				
Account receivable - parent company	353.32	399.09	10,653.92	12,950.47

18.3 Short-term Loans to Related Parties

Short-term loans to related parties comprised:

	Unit	Unit: Million Baht		
Borrowers	The Company		The Co	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Subsidiary				
PTTEP Treasury Center Company Limited	362.00	1,175.45	10,915.76	38,143.18
Total	362.00	1,175.45	10,915.76	38,143.18

18.4 Long-term Loans to Related Parties

Long-term loans to related parties comprised:

	Unit: Million US Dollar			Unit: Million Baht
Borrowers	Conso	lidated	Consoli	dated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Associate				
Energy Complex Company Limited	19.24	17.88	580.00	580.00
Related Party				
PTTGL Investment Limited	66.82	77.62	2,014.92	2,518.81
Total	86.06	95.50	2,594.92	3,098.81

	Unit	Unit: Million Baht		
Borrowers	The Co	mpany	The Cor	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Subsidiary				
PTTEP Treasury Center Company Limited	6,391.07	5,400.66	192,716.37	175,250.35
Associate				
Energy Complex Company Limited	19.24	17.87	580.00	580.00
Total	6,410.31	5,418.53	193,296.37	175,830.35

The Company has provided loans to subsidiary for the year ended December 31, 2019 with an interest rate of 4.62% per annum (during the year 2018: interest rate was between 3.19% - 3.47% per annum). The subsidiary shall occasionally repay the loans.

The Company has provided loans to an associate for the year ended December 31, 2019 with an interest rate of 3.35% per annum (during the year 2018: interest rate was 3.35% per annum).

The Group has provided loans to related party for the year ended December 31, 2019 with an interest rate between 4.01% - 4.67% per annum (during the year 2018: interest rate was 3.64% - 4.30% per annum).

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Movements in the long-term loans to related parties for the year are as follows:

	Unit: Million US Dollar Consolidated	Unit: Million Baht Consolidated
Balance as at January 1, 2019	95.50	3,098.81
Decrease	(10.80)	(335.20)
Foreign exchange differences	1.36	42.23
Currency translation differences	-	(210.92)
Balance as at December 31, 2019	86.06	2,594.92
	Unit: Million US Dollar	Unit: Million Baht
	Unit: Million US Dollar The Company	Unit: Million Baht The Company
Balance as at January 1, 2019		
Balance as at January 1, 2019 Increase	The Company	The Company
•	The Company 5,418.53	The Company 175,830.35
Increase	The Company 5,418.53 1,195.62	The Company 175,830.35 37,105.97
Increase Decrease	The Company 5,418.53 1,195.62 (205.20)	The Company 175,830.35 37,105.97 (6,368.38)

19. Investments in Subsidiaries, Associates, Joint Ventures and Joint Operations

19.1 Changes of Investments in Subsidiaries, Associates and Joint Ventures

Changes of investments in subsidiaries, associates and joint ventures are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	237.21	7,697.38
Share of net profit after income taxes	12.35	380.41
Dividends received from associates	(2.81)	(87.13)
Dividends received from joint ventures	(11.91)	(369.58)
Share of other comprehensive income	4.38	136.43
Business acquisition	82.96	2,502.52
Increase in investment	130.63	4,054.04
Currency translation differences	0.19	(654.42)
Balance as at December 31, 2019	453.00	13,659.65

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Balance as at January 1, 2019
Increase in investments
Currency translation differences
Balance as at December 31, 2019

Unit: Million US Dollar	Unit: Million Baht
The Company	The Company
821.29	26,650.70
128.69	3,993.94
-	(1,998.92)
949.98	28,645.72

19.2 Investments in Subsidiaries

Details of subsidiaries are as follows:

List of subsidiaries	Registered	Type of	Participating interest (%) (including indirect holding)	
	country	business	Dec 31, 2019	Dec 31, 2018
1. PTTEP International Limited (PTTEPI)	Thailand	Petroleum	100	100
2. PTTEP Offshore Investment Company Limited	Cayman Islands	Petroleum	100	100
(PTTEPO)				
3. PTTEP Services Limited (PTTEP Services)	Thailand	Human resource	100	100
		support		
4. PTTEP Siam Limited (PTTEPS)	Thailand	Petroleum	100	100
5. PTTEP HK Holding Limited (PTTEP HK)	Hong Kong	Petroleum	100	100
6. PTTEP Treasury Center Company Limited	Thailand	Treasury center	100	100
(PTTEP TC)		for the Group's		
		business		
7. PTTEP Energy Holding (Thailand) Company	Thailand	Petroleum	100	100
Limited (PTTEP EH)				
8. PTTEP Business Center Company Limited	Thailand	Petroleum	100	100
(PTTEP BC)				
9. PTTEP Energy Development Company	Thailand	Petroleum	100	100
Limited (PTTEP ED)				
10. EP-Tech Ventures Holding Company	Thailand	Petroleum-	100	100
Limited (EP-Tech)		related		
		Technology		
11. Al and Robotics Ventures Company Limited (ARV)	Thailand	Technology	100	100
12. PTTEP Southwest Vietnam Company	Cayman Islands	Petroleum	100	100
Limited (PTTEP SV)				
13. PTTEP Kim Long Vietnam Company Limited	Cayman Islands	Petroleum	100	100
(PTTEP KV)				

List of subsidiaries	Registered	Type of		interest (%)
	country	business	Dec 31, 2019	Dec 31, 2018
14. PTTEP Hoang-Long Company Limited (PTTEP HL)	Cayman Islands	Petroleum	100	100
15. PTTEP Hoan-Vu Company Limited (PTTEP HV)	Cayman Islands	Petroleum	100	100
16. PTTEP Algeria Company Limited (PTTEP AG)	Cayman Islands	Petroleum	100	100
17. PTTEP Holding Company Limited (PTTEPH)	Cayman Islands	Petroleum	100	100
18. PTTEP Indonesia Company Limited (PTTEP ID)	Cayman Islands	Petroleum	100	100
19. PTTEP Africa Investment Limited (PTTEP AI)	Cayman Islands	Petroleum	100	100
20. PTTEP Australia Pty Ltd (PTTEP AU)	Commonwealth of Australia	Petroleum	100	100
21. PTTEP Australia Offshore Pty Ltd (PTTEP AO)	Commonwealth of Australia	Petroleum	100	100
22. PTTEP South Asia Limited (PTTEP SA)	Cayman Islands	Petroleum	100	100
23. PTTEP Semai II Limited (PTTEP SM)	Cayman Islands	Petroleum	100	100
24. PTTEP Australia Perth Pty Ltd (PTTEP AP)	Commonwealth of Australia	Petroleum	100	100
25. PTTEP Australia Browse Basin Pty Ltd (PTTEP AB)	Commonwealth of Australia	Petroleum	100	100
26. PTTEP Australia Timor Sea Pty Ltd (PTTEP AT)	Commonwealth of Australia	Petroleum	100	100
27. PTTEP Australasia (Operations) Pty Ltd (PTTEP AAO)	Commonwealth of Australia	Petroleum	100	100
28. PTTEP Australasia (Ashmore Cartier) Pty Ltd (PTTEP AAA)	Commonwealth of Australia	Petroleum	100	100
29. PTTEP Australasia (Staff) Pty Ltd	Commonwealth	Petroleum	100	100
(PTTEP AAS)	of Australia			
30. PTTEP International Holding Company Limited (PTTEP IH)	Cayman Islands	Petroleum	100	100
31. PTTEP Southwest Vietnam Pipeline	Cayman Islands	Gas pipeline	100	100
Company Limited (PTTEP SVPC)		transportation		
32. PTTEP FLNG Holding Company Limited (PTTEP FH) 1	Hong Kong	Petroleum	100	100



List of subsidiaries	Registered	Type of		interest (%)
	country	business	Dec 31, 2019	Dec 31, 2018
55. PTTEP Mexico E&P Limited, S.de R.L. de C.V.	Mexico	Petroleum	100	100
(PTTEP MEP)				
56. PTTEP Sabah Oil Limited (PTTEP SBO) 4	Bahamas	Petroleum	100	-
57. PTTEP Sarawak Oil Limited (PTTEP SKO) 4	Bahamas	Petroleum	100	-
58. Partex Holding B.V. (PHBV) ⁵	Netherlands	Petroleum	100	-
59. Partex Oil and Gas (Holdings) Corporation (POGHC) ⁵	Cayman Islands	Petroleum	100	-
60. Partex (Kazakhstan) Corporation (PKC) ⁵	Cayman Islands	Petroleum	100	-
61. Partex (Angola) Corporation (PANG) 5	Cayman Islands	Petroleum	100	-
62. Partex (Brazil) Corporation (PBC) 5	Cayman Islands	Petroleum	100	-
63. Partex Gas Corporation (PGC) ⁵	Republic of	Petroleum	100	-
	Panama			
64. Partex Services Corporation (PSC) 5	Republic of	Petroleum	100	-
	Panama			
65. Participations and Explorations Corporation	Republic of	Petroleum	100	-
(PEC) ⁵	Panama			
66. Partex (Oman) Corporation (POC) ⁵	Republic of Panama	Petroleum	100	-
67. Partex Services Portugal – Serviços para a Indústria Petrolífera, S.A. (PSP) ⁵	Portugal	Petroleum	100	-
68. Partex Brasil Ltda. (PBL) ⁵	Brazil	Petroleum	100	-
69. Partex Brasil Operações Petrolíferas Ltda	Brazil	Human resource	100	-
(PBO) ⁵		support		

On August 24, 2017, the Company approved for the registration for the dissolution of PTTEP FLNG Holding Company Limited (PTTEP FH). It is currently in the process of the dissolution.

² On May 22, 2017, the Company approved for the registration for the dissolution of Cove Energy Mozambique Rovuma Onshore Limited (CEMROL). It is currently in the process of the dissolution.

³ On May 22, 2017, the Company approved for the registration for the dissolution of Cove Energy Kenya Limited (CEKL). It is currently in the process of the dissolution.

⁴ On July 10, 2019, PTTEP HK Offshore Limited (PTTEP HKO), a subsidiary of the Group, acquired shares in Murphy Sabah Oil Co., Ltd. (Murphy Sabah) and Murphy Sarawak Oil Co., Ltd. (Murphy Sarawak) as disclosed in Note 6 - Business acquisition in Murphy Oil Corporation in Malaysia and proceeded to change the name to PTTEP Sabah Oil Limited (PTTEP SBO) and PTTEP Sarawak Oil Limited (PTTEP SKO), respectively.

⁵ On November 4, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, acquired the 100% shareholding interests of Partex Holding B.V. as disclosed in Note 7 - Business acquisition in Partex Holding B.V.

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Investments in subsidiaries accounted for using the cost method for the Company's financial statements are as follows:

	Un	it: Million US Dollar		Unit: Million Baht
	The Co	mpany	The Co	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
PTTEP International Limited	516.38	516.38	15,571.04	16,756.56
PTTEP Services Limited	0.08	0.08	2.33	2.51
PTTEP Siam Limited	99.79	99.79	3,009.10	3,238.20
PTTEP Offshore Investment Company Limited	0.005	0.005	0.15	0.16
PTTEP HK Holding Limited	35.89	16.87	1,082.28	547.49
PTTEP Treasury Center Company Limited	0.07	0.07	2.23	2.40
PTTEP Energy Holding (Thailand)				
Company Limited	272.18	162.51	8,207.33	5,273.39
Total	924.40	795.71	27,874.46	25,820.71

19.3 Investments in Associates

Details of associates are as follows:

List of associates ¹	Registered country	Country of operation	Type of business	Participating (including ind	
	odanay	operation		Dec 31, 2019	Dec 31, 2018
1. Energy Complex Company	Thailand	Thailand	Property rental	50	50
Limited (Energy Complex)			services		
2. PTT Digital Solutions Company	Thailand	Thailand	Information	20	20
Limited (PTT Digital)			technology and		
			communication		
			services		
3. PTTEP AP Group's Associates ²	Commonwealth	Commonwealth	Air base services	50	50
	of Australia	of Australia			
4. PTT Global LNG Company	Thailand	Thailand	Petroleum	50	50
Limited (PTT GL)					
5. Leismer Aerodrome Limited (LAL)	Canada	Canada	Air transportation	32	32

 $^{^{\}rm 1}$ All investments in associates have been assessed as immaterial to the Group.

 $^{^{2}}$ PTTEP AP's group associates are Mungalalu Truscott Airbase Pty Ltd and Troughton Island Pty Ltd.

Investments in associates accounted for using the equity method for the consolidated financial statements and using the cost method for the Company's financial statements are as follows:

	Uni	t: Million US Dollar		Unit: Million Baht
	Consoli	dated	Conso	lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Energy Complex Company Limited	53.62	44.29	1,616.78	1,437.02
PTT Digital Solutions Company Limited	13.70	10.84	413.06	351.89
PTTEP AP Group's associates	4.97	7.14	149.90	231.54
PTT Global LNG Company Limited	151.50	153.66	4,568.44	4,986.26
Leismer Aerodrome Limited	3.84	3.87	115.66	125.65
Total	227.63	219.80	6,863.84	7,132.36

	Uni	it: Million US Dollar		Unit: Million Bant
	The Company		The Co	mpany
	Dec 31, 2019 Dec 31, 2018		Dec 31, 2019	Dec 31, 2018
Energy Complex Company Limited	24.79	24.79	747.50	804.42
PTT Digital Solutions Company Limited	0.79	0.79	23.76	25.57
Total	25.58	25.58	771.26	829.99

Details of share of associates are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Aggregate carrying amount of share of associates	227.63	6,863.84
Aggregate amounts of the reporting entity's share of;		
Profit from continuing operations	6.07	187.36
Other comprehensive income	4.38	136.43
Total comprehensive income for the year ended Dec 31, 2019	10.45	323.79

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19.4 Investments in Joint Ventures

Details of joint ventures are as follows:

List of joint ventures ¹	Registered	Country of	Type of		interest (%) lirect holding)
	country	operation	business	Dec 31, 2019	Dec 31, 2018
1. Erawan 2 FSO Bahamas Ltd.	Bahamas	Thailand	FSO rental	13.11	13.11
(Erawan 2 FSO Bahamas) ²			services		
2. APICO LLC 3, 4	United States	Thailand	Petroleum	72.8215	-
	of America				
3. Oman LNG LLC (OLNG) 5	Oman	Oman	Petroleum	2	-

All investments in joint ventures have been assessed as immaterial to the Group.

Investments in joint ventures accounted for using the equity method for the consolidated financial statements are as follows:

	Ur	nit: Million US Dollar		Unit: Million Baht
	Consc	olidated	Consc	lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Erawan 2 FSO Bahamas Ltd.	18.10	17.41	545.78	565.02
APICO LLC	127.38	-	3,841.17	-
Oman LNG LLC	79.89		2,408.86	
รวม	225.37	17.41	6,795.81	565.02

Details of share of joint ventures are as follows:

	Consolidated	Consolidated
Aggregate carrying amount of share of joint ventures	225.37	6,795.81
Aggregate amounts of the reporting entity's share of;		
Profit from continuing operations	6.28	193.05
Total comprehensive income for year ended Dec 31, 2019	6.28	193.05

Unit: Million US Dollar

Unit: Million Baht

² Erawan 2 has a 100% shareholding in Asia Pacific Marine Services (EF) B.V.

³ On June 4, 2019, PTTEP SP Limited (PTTEP SP), a subsidiary of the Group, acquired participating interests in APICO LLC as disclosed in Note 19.6 Significant transactions during the year.

⁴ On September 11, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, acquired participating interests in APICO LLC as disclosed in Note 19.6 Significant transactions during the year.

⁵ On November 4, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, acquired the 100%shareholding interests of Partex Holding B.V. as disclosed in Note 7 Business acquisition in Partex Holding B.V.

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19.5 Investments in Joint Operations

Details of Joint Operations are as follows:

l :-	Registered	Country of	Type of		interest (%)
List of joint operations	country	operation	business	Dec 31, 2019	Dec 31, 2018
1. Carigali – PTTEPI Operating	Malaysia	Malaysia	Petroleum	50	50
Company Sdn Bhd. (CPOC)	,	,			
2. Moattama Gas Transportation	Bermuda	Republic of the	Gas pipeline	25.5	25.5
Company (MGTC)		Union of Myanmar	transportation		
3. Taninthayi Pipeline Company	Cayman Islands	Republic of the	Gas pipeline	19.3178	19.3178
LLC (TPC)		Union of Myanmar	transportation		
4. Orange Energy Limited	Thailand	Thailand	Petroleum	53.9496	53.9496
(Orange)					
5. B8/32 Partners Limited	Thailand	Thailand	Petroleum	25.0009	25.0009
(B8/32 Partners)					
6. Hoang-Long Joint Operating	Socialist Republic	Socialist Republic	Petroleum	28.5	28.5
Company	of Vietnam	of Vietnam			
7. Hoan-Vu Joint Operating	Socialist Republic	Socialist Republic	Petroleum	25	25
Company	of Vietnam	of Vietnam			
8. Groupement Bir Seba (GBRS)	People's	People's	Petroleum	35	35
	Democratic	Democratic			
	Republic of Algeria	Republic of Algeria			
9. Andaman Transportation	Cayman Islands	Republic of the	Gas pipeline	80	80
Limited (ATL)		Union of Myanmar	transportation		
10. Natuna 2 B.V. (Natuna)	Netherlands	Republic of	Petroleum	50	50
		Indonesia			
11. Petroleum Development	Oman	Oman	Petroleum	2	-
Oman LLC (PDO)					
12. Abu Dhabi Gas Industries	United Arab	United Arab	Petroleum	2	-
Limited (AGP) ¹	Emirates	Emirates			
13. Private Oil Holdings Oman	United Kingdom	Oman	Petroleum	5	-
Limited (POHOL) 1	of Great Britain				
	and Northern				
	Ireland				

¹ On November 4, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, acquired the 100%shareholding interests of Partex Holding B.V. as disclosed in Note 7 Business acquisition in Partex Holding B.V.

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19.6 Significant Transactions during the Year

PTTEP HK Holding Limited

On February 4, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, increased its authorized share capital by Hong Kong Dollar (HK Dollar) 205,000,262 by increasing its par value per share to HK Dollar 73,409.

On June 17, 2019, PTTEP HK increased its authorized share capital by HK Dollar 390,817,947 by increasing its par value per share to HK Dollar 112,491.

PTTEP HK Offshore Limited

On February 4, 2019, PTTEP HK Offshore Limited (PTTEP HKO), a subsidiary of the Group, increased its authorized share capital by HK Dollar 172,631,800 by increasing its par value per share to HK Dollar 29,171.

On June 17, 2019, PTTEP HKO increased its authorized share capital by HK Dollar 336,406,200 by increasing its par value per share to HK Dollar 62,810.

PTTEP Mexico E&P Limited, S. de R.L. de C.V.

On February 4, 2019, PTTEP Mexico E&P Limited, S. de R.L. de C.V. (PTTEP MEP), a subsidiary of the Group, increased its authorized share capital by Mexican Peso (MXN) 78,535,050 by issuing of 78,535,050 newly issued ordinary shares, at the par value of MXN 1 each.

On June 17, 2019, PTTEP MEP increased its authorized share capital by MXN 133,179,208 by issuing of 133,179,208 newly issued ordinary shares, at the par value of MXN 1 each.

PTTEP Energy Holding (Thailand) Company Limited

On February 11, 2019, PTTEP Energy Holding (Thailand) Company Limited (PTTEP EH), a subsidiary of the Group, increased its authorized share capital by Baht 2,325,000,000 by issuing of 23,250,000 newly issued ordinary shares, at the par value of Baht 100 each.

On March 25, 2019, PTTEP EH increased its authorized share capital by Baht 586,625,000 by issuing of 5,866,250 newly issued ordinary shares, at the par value of Baht 100 each.

On October 10, 2019, PTTEP EH increased its authorized share capital by Baht 518,145,600 by issuing of 5,181,456 newly issued ordinary shares, at the par value of Baht 100 each.

PTTEP Energy Development Company Limited

On February 11, 2019, PTTEP Energy Development Company Limited (PTTEP ED), a subsidiary of the Group, increased its authorized share capital by Baht 2,325,000,000 by issuing of 23,250,000 newly issued ordinary shares, at the par value of Baht 100 each.



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APICO LLC

On February 15, 2019, PTTEP SP Limited (PTTEP SP), a subsidiary of the Group, signed the Share Purchase Agreement (SPA) to acquire 33.83% participating interests in APICO LLC from Tatex Thailand LLC and Tatex Thailand II LLC with total transaction value of approximately US Dollar 64 million, before adjusting the change in working capital.

The transaction was completed on June 4, 2019. The acquisition value after adjusting the change in working capital according to the agreement was amounting to US Dollar 62.94 million (Baht 1,973.03 million) consisting of cash payment amounting to US Dollar 37.57 million (Baht 1,177.68 million) and contingent consideration if the conditions specified in the SPA are met amounting to US Dollar 25.37 million (Baht 795.35 million). The fair value of the investment in joint venture was US Dollar 61.16 million (Baht 1,917.29 million) which was resulted from discounting the contingent consideration value. The fair value is measured by using income approach based on discount rate of 2.91% and probability assumption which is classified as fair value level 3.

On July 31, 2019, PTTEP HK Holding Limited (PTTEP HK), a subsidiary of the Group, signed the Share Purchase Agreement (SPA) to acquire additional 38.99% participating interests in APICO LLC from Coastal Energy Company (Khorat) Limited with total transaction value of approximately US Dollar 74 million, before adjusting the change in working capital.

The transaction was completed on September 11, 2019. The acquisition value after adjusting the change in working capital according to the agreement was amounting to US Dollar 71.15 million (Baht 2,178.58 million) consisting of cash payment amounting to US Dollar 41.85 million (Baht 1,281.38 million) and contingent consideration if the conditions specified in the SPA are met amounting to US Dollar 29.30 million (Baht 897.20 million). The fair value of the investment was US Dollar 69.47 million (Baht 2,127.28 million) which was resulted from discounting the contingent consideration value. The fair value is measured by using income approach based on discount rate of 2.62% and probability assumption which is classified as fair value level 3.

The discounted value of contingent consideration if the conditions specified in the SPA are met is recognised in other non-current liabilities in the consolidated financial statements totalling US Dollar 51.86 million (Baht 1,563.84 million). After the completion of the additional acquisition, the Group's participating interests in APICO LLC is 72.82% which is classified as investment in joint venture. Furthermore, the Group's participating interests (both direct and indirect) in Sinphuhorm project is 80.48% and the Group is the operator of the project.

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PTTEP G7 Limited

On March 7, 2019, PTTEP G7 Limited (PTTEP G7), a subsidiary of the Group, increased its authorized share capital by Baht 79,200,000 by issuing of 792,000 newly issued ordinary shares, at the par value of Baht 100 each.

■ PTTEP Netherlands Coöperatie U.A.

On March 25, 2019, PTTEP Netherlands Coöperatie U.A. (PTTEP NC), a subsidiary of the Group, increased its authorized share capital by US Dollar 20,000,000.

On December 9, 2019, PTTEP NC increased its authorized share capital by US Dollar 15,000,0000.

PTTEP Canada Limited

On March 25, 2019, PTTEP Canada Limited (PTTEP CA), a subsidiary of the Group, increased its authorized share capital by Canadian Dollar (CAD) 26,840,000 by issuing of 26,840,000 newly issued ordinary shares, at the par value of CAD 1 each.

On December 9, 2019, PTTEP CA increased its authorized share capital by CAD 19,852,500 by issuing of 19,852,500 newly issued ordinary shares, at the par value of CAD 1 each.

EP-Tech Ventures Holding Company Limited

On March 25, 2019, EP-Tech Ventures Holding Company Limited (EP-Tech), a subsidiary of the Group, increased its authorized share capital by Baht 586,625,000 by issuing of 5,866,250 newly issued ordinary shares, at the par value of Baht 100 each.

Al and Robotics Ventures Company Limited

On March 26, 2019, Al and Robotics Ventures Company Limited (ARV), a subsidiary of the Group, increased its authorized share capital by Baht 586,625,000 by issuing of 5,866,250 newly issued ordinary shares, at the par value of Baht 100 each.

PTTEP Business Center Company Limited

On October 11, 2019, PTTEP Business Center Company Limited (PTTEP BC), a subsidiary of the Group, increased its authorized share capital by Baht 518,145,600 by issuing of 51,814,560 newly issued ordinary shares, at the par value of Baht 10 each.

PTTEP MENA Limited

On October 16, 2019, PTTEP MENA Limited (PTTEP MENA), a subsidiary of the Group, increased its authorized share capital by US Dollar 17,000,000 by increasing its par value per share to US Dollar 34,100.

Unit: Million Baht

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20. Other long-term investments

Other long-term investments are as follows:

Sarn Palung Social Enterprise Company Limited ¹
Mozambique LNG1 Company Pte. Ltd. ³
Moz LNG1 Holding Company Ltd ^{2, 3}
Total

Unit	: Million US Dollar	Unit: Million Bal		
Consolidated		Consolidated		
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
0.05	0.01	1.44	0.37	
-	0.21	-	6.89	
0.30		8.97		
0.35	0.22	10.41	7.26	

The Company		The Company	
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
0.05	0.01	1.44	0.37
0.05	0.01	1.44	0.37

Unit: Million US Dollar

Sarn Palung Social Enterprise Company
Limited ¹
Total

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¹ On July 31, 2019, the Company paid for shares in Sarn Palung Social Enterprise Company Limited, which the Company has shareholding interests of 15% of the registered capital, by Baht 1,125,000. As at December 31, 2019, the Company paid 100% of the registered capital.

² On April 21, 2019, PTTEP Mozambique Area 1 Limited (PTTEP MZA1), a subsidiary of the Group, has invested with its participating interests in Moz LNG1 Holding Company Ltd, which was registered in the United Arab Emirates with a registered capital of US Dollar 999,999. The registered capital comprises 999,999 ordinary shares with a par value of US Dollar 1 each. PTTEP MZA1 has 85,000 shares with the aggregate value of US Dollar 85,000.

³ On May 7, 2019, PTTEP MZA1 transferred its participating interests of 212 shares at the par value of US Dollar 100 each in Mozambique LNG1 Company Pte. Ltd. to participating interests of 212,500 shares at the par value of US Dollar 1 each in Moz LNG1 Holding Company Ltd.

21. Property, Plant and Equipment

		Consolidate		it: Million US Dollar
	Oil and Gas Properties	Pipeline	Others	Total
Historical cost				
Balance as at January 1, 2018	26,226.23	893.72	131.52	27,251.47
Business acquisition	1,317.90	-	-	1,317.90
Increase	1,061.60	0.68	3.90	1,066.18
Transfer	55.97	-	-	55.97
Decrease	(194.75)	(3.29)	(4.02)	(202.06)
Decrease from divestment of assets	(2,627.38)	-	-	(2,627.38)
Currency translation differences	(0.02)	<u>-</u>		(0.02)
Balance as at December 31, 2018	25,839.55	891.11	131.40	26,862.06
Business acquisition	2,081.24	-	15.22	2,096.46
Increase	1,400.98	2.44	6.04	1,409.46
Transfer	996.12	-	-	996.12
Decrease	(58.96)	-	(6.29)	(65.25)
Currency translation differences	0.01		0.11	0.12
Balance as at December 31, 2019	30,258.94	893.55	146.48	31,298.97
Accumulated depreciation				
Balance as at January 1, 2018	(17,688.42)	(218.78)	(79.16)	(17,986.36)
Depreciation for the year	(1,818.50)	(29.65)	(8.89)	(1,857.04)
Decrease	23.41	-	3.38	26.79
Decrease from divestment of assets	1,492.80	-	-	1,492.80
Currency translation differences	0.02	<u>-</u>	0.01	0.03
Balance as at December 31, 2018	(17,990.69)	(248.43)	(84.66)	(18,323.78)
Depreciation for the year	(1,970.42)	(29.81)	(8.17)	(2,008.40)
Decrease	24.10	-	6.23	30.33
Currency translation differences	(0.01)			(0.01)
Balance as at December 31, 2019	(19,937.02)	(278.24)	(86.60)	(20,301.86)
Allowance for impairment of assets				
Balance as at January 1, 2018	(1,225.49)	(5.25)	-	(1,230.74)
Transfer	(4.07)	-	-	(4.07)
Decrease	5.28	-	-	5.28
Decrease from divestment of assets	894.40			894.40
Balance as at December 31, 2018	(329.88)	(5.25)	-	(335.13)
Increase	_			
Balance as at December 31, 2019	(329.88)	(5.25)		(335.13)
Net book value as at December 31, 2018	7,518.98	637.43	46.74	8,203.15
Net book value as at December 31, 2019	9,992.04	610.06	59.88	10,661.98

Depreciation included in the statement of income for the year ended December 31, 2018 US Dollar 1,857.04 million Depreciation included in the statement of income for the year ended December 31, 2019 US Dollar 2,008.40 million

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		Consolidated		Unit: Million Baht
	Oil and Gas Properties	Pipeline	Others	Total
<u>Historical cost</u>				
Balance as at January 1, 2018	857,097.06	29,207.83	4,298.03	890,602.92
Business acquisition	43,343.98	-	-	43,343.98
Increase	34,284.58	22.05	125.84	34,432.47
Transfer	1,807.46	-	-	1,807.46
Decrease	(6,289.46)	(106.37)	(129.74)	(6,525.57)
Decrease from divestment of assets	(84,851.26)	-	-	(84,851.26)
Currency translation differences	(6,903.22)	(206.93)	(30.49)	(7,140.64)
Balance as at December 31, 2018	838,489.14	28,916.58	4,263.64	871,669.36
Business acquisition	63,886.42	-	459.09	64,345.51
Increase	43,479.35	75.62	187.44	43,742.41
Transfer	30,914.47	-	-	30,914.47
Decrease	(1,829.63)	-	(194.96)	(2,024.59)
Currency translation differences	(62,511.75)	(2,048.00)	(298.25)	(64,858.00)
Balance as at December 31, 2019	912,428.00	26,944.20	4,416.96	943,789.16
Accumulated depreciation				
Balance as at January 1, 2018	(578,073.68)	(7,150.05)	(2,586.86)	(587,810.59)
Depreciation for the year	(58,837.46)	(958.12)	(287.07)	(60,082.65)
Decrease	755.95	-	109.28	865.23
Decrease from divestment of assets	48,209.91	-	-	48,209.91
Currency translation differences	4,150.12	46.60	17.84	4,214.56
Balance as at December 31, 2018	(583,795.16)	(8,061.57)	(2,746.81)	(594,603.54)
Depreciation for the year	(61,088.56)	(925.29)	(253.36)	(62,267.21)
Decrease	748.22	-	193.30	941.52
Currency translation differences	42,954.63	596.82	195.68	43,747.13
Balance as at December 31, 2019	(601,180.87)	(8,390.04)	(2,611.19)	(612,182.10)
Allowance for impairment of assets				
Balance as at January 1, 2018	(40,049.90)	(171.73)	-	(40,221.63)
Transfer	(131.58)	-	-	(131.58)
Decrease	170.46	-	-	170.46
Decrease from divestment of assets	28,884.69	-	-	28,884.69
Currency translation differences	421.81	1.22	-	423.03
Balance as at December 31, 2018	(10,704.52)	(170.51)	_	(10,875.03)
Currency translation differences	757.35	12.06		769.41
Balance as at December 31, 2019	(9,947.17)	(158.45)	-	(10,105.62)
Net book value as at December 31, 2018	243,989.46	20,684.50	1,516.83	266,190.79
Net book value as at December 31, 2019	301,299.96	18,395.71	1,805.77	321,501.44
Depreciation included in the statement of in-	come for the year ended Dec	cember 31, 2018 Ba	ht 60,082.65	million

Depreciation included in the statement of income for the year ended December 31, 2019 Baht 62,267.21 million

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			Unit: Million US Dollar
	Oil and Gas Properties	Others	Total
Historical cost			
Balance as at January 1, 2018	11,643.57	90.42	11,733.99
Business acquisition	1,292.74	-	1,292.74
Increase	380.30	3.16	383.46
Decrease	(126.38)	(4.02)	(130.40)
Balance as at December 31, 2018	13,190.23	89.56	13,279.79
Increase	409.25	2.85	412.10
Transfer	149.89	-	149.89
Decrease	(0.06)	(6.13)	(6.19)
Balance as at December 31, 2019	13,749.31	86.28	13,835.59
Accumulated depreciation			
Balance as at January 1, 2018	(8,537.83)	(58.49)	(8,596.32)
Depreciation for the year	(898.48)	(6.55)	(905.03)
Decrease	0.24	3.38	3.62
Balance as at December 31, 2018	(9,436.07)	(61.66)	(9,497.73)
Depreciation for the year	(1,032.71)	(5.42)	(1,038.13)
Decrease	0.06	6.08	6.14
Balance as at December 31, 2019	(10,468.72)	(61.00)	(10,529.72)
Net book value as at December 31, 2018	3,754.16	27.90	3,782.06
Net book value as at December 31, 2019	3,280.59	25.28	3,305.87

Depreciation included in the statement of income for the year ended December 31, 2018 US Dollar 905.03 million

Depreciation included in the statement of income for the year ended December 31, 2019 US Dollar 1,038.13 million

			Unit: Million Baht
		The Company	
	Oil and Gas Properties	Others	Total
Historical cost			
Balance as at January 1, 2018	380,522.68	2,955.12	383,477.80
Business acquisition	42,516.64	-	42,516.64
Increase	12,281.76	101.89	12,383.65
Decrease	(4,081.58)	(129.62)	(4,211.20)
Currency translation differences	(3,218.62)	(21.03)	(3,239.65)
Balance as at December 31, 2018	428,020.88	2,906.36	430,927.24
Increase	12,700.91	88.54	12,789.45
Transfer	4,651.73	-	4,651.73
Decrease	(1.98)	(190.37)	(192.35)
Currency translation differences	(30,775.14)	(202.73)	(30,977.87)
Balance as at December 31, 2019	414,596.40	2,601.80	417,198.20
Accumulated depreciation			
Balance as at January 1, 2018	(279,024.18)	(1,911.73)	(280,935.91)
Depreciation for the year	(29,137.28)	(211.55)	(29,348.83)
Decrease	7.88	109.28	117.16
Currency translation differences	1,954.61	13.04	1,967.65
Balance as at December 31, 2018	(306,198.97)	(2,000.96)	(308,199.93)
Depreciation for the year	(32,041.22)	(168.36)	(32,209.58)
Decrease	1.96	188.75	190.71
Currency translation differences	22,564.53	141.18	22,705.71
Balance as at December 31, 2019	(315,673.70)	(1,839.39)	(317,513.09)
Net book value as at December 31, 2018	121,821.91	905.40	122,727.31
Net book value as at December 31, 2019	98,922.70	762.41	99,685.11

Depreciation included in the statement of income for the year ended December 31, 2018 Baht 29,348.83 million Depreciation included in the statement of income for the year ended December 31, 2019 Baht 32,209.58 million

As at December 31, 2019, the net book value of assests held under finance leases included in property, plant and equipment amounting to US Dollor 122.43 million (Baht 3,691.76 million) for the consolidated financial statements and US Dollor 0.97 million (Baht 29.28 million) for the Company's financial statements.

22. Goodwill

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Historical cost		.=
Balance as at January 1, 2018	1,134.08	37,063.04
Reclassification and adjustment	153.20	5,006.78
Reclassified and adjusted balance as at January 1, 2018	1,287.28	42,069.82
Business acquisition	76.66	2,521.18
Decrease from divestment of assets	(7.31)	(236.20)
Currency translation differences	- -	(332.24)
Balance as at December 31, 2018	1,356.63	44,022.56
Business acquisition	816.62	25,048.55
Currency translation differences	<u> </u>	(3,538.99)
Balance as at December 31, 2019	2,173.25	65,532.12
Allowance for impairment of assets		
Balance as at January 1, 2018	(119.70)	(3,912.10)
Decrease from divestment of assets	7.31	236.20
Currency translation differences		28.79
Balance as at December 31, 2018	(112.39)	(3,647.11)
Currency translation differences	<u>-</u>	258.04
Balance as at December 31, 2019	(112.39)	(3,389.07)
Net book value as at December 31, 2018	1,244.24	40,375.45
Net book value as at December 31, 2019	2,060.86	62,143.05
	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Historical cost		
Balance as at January 1, 2018	-	-
Business acquisition	75.16	2,471.83
Currency translation differences		(32.98)
Balance as at December 31, 2018	75.16	2,438.85
Currency translation differences		(172.55)
Balance as at December 31, 2019	75.16	2,266.30
Net book value as at December 31, 2018	75.16	2,438.85
Net book value as at December 31, 2019	75.16	2,266.30

23. Intangible Assets

			Unit: Million US Dollar
		Consolidated	
	Other Intangible Assets	Development Cost	Total
Historical cost			
Balance as at January 1, 2018	158.99	7.87	166.86
Business acquisition	0.18	-	0.18
Increase	8.00	3.69	11.69
Decrease	(0.36)	(0.30)	(0.66)
Currency translation differences	(0.01)		(0.01)
Balance as at December 31, 2018	166.80	11.26	178.06
Business acquisition	39.20	-	39.20
Increase	19.61	6.57	26.18
Decrease	(0.01)	-	(0.01)
Currency translation differences	0.01	-	0.01
Balance as at December 31, 2019	225.61	17.83	243.44
Accumulated amortization			
Balance as at January 1, 2018	(82.85)	(0.02)	(82.87)
Amortization for the year	(13.14)	(0.09)	(13.23)
Decrease	0.12	-	0.12
Currency translation differences	0.01	-	0.01
Balance as at December 31, 2018	(95.86)	(0.11)	(95.97)
Amortization for the year	(15.12)	(0.37)	(15.49)
Decrease	0.01	-	0.01
Currency translation differences	(0.01)		(0.01)
Balance as at December 31, 2019	(110.98)	(0.48)	(111.46)
Net book value as at December 31, 2018	70.94	11.15	82.09
Net book value as at December 31, 2019	114.63	17.35	131.98

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			Unit: Million Baht
		Consolidated	
	Other Intangible Assets	Development Cost	Total
Historical cost			
Balance as at January 1, 2018	5,196.09	257.08	5,453.17
Business acquisition	5.79	-	5.79
Increase	258.36	119.32	377.68
Decrease	(11.56)	(9.65)	(21.21)
Currency translation differences	(36.17)	(1.29)	(37.46)
Balance as at December 31, 2018	5,412.51	365.46	5,777.97
Business acquisition	1,184.21	-	1,184.21
Increase	608.75	203.89	812.64
Decrease	(0.28)	-	(0.28)
Currency translation differences	(402.11)	(31.65)	(433.76)
Balance as at December 31, 2019	6,803.08	537.70	7,340.78
Accumulated amortization			
Balance as at January 1, 2018	(2,707.89)	(0.47)	(2,708.36)
Amortization for the year	(424.42)	(3.08)	(427.50)
Decrease	4.10	-	4.10
Currency translation differences	17.64	0.03	17.67
Balance as at December 31, 2018	(3,110.57)	(3.52)	(3,114.09)
Amortization for the year	(468.26)	(11.66)	(479.92)
Decrease	0.28	-	0.28
Currency translation differences	231.98	0.58	232.56
Balance as at December 31, 2019	(3,346.57)	(14.60)	(3,361.17)
Net book value as at December 31, 2018	2,301.94	361.94	2,663.88
Net book value as at December 31, 2019	3,456.51	523.10	3,979.61



			Unit: Million US Dollar
		The Company	
	Other Intangible Assets	Development Cost	Total
<u>Historical cost</u>			
Balance as at January 1, 2018	140.67	7.87	148.54
Business acquisition	0.17	-	0.17
Increase	6.32	3.69	10.01
Decrease	(0.07)	(0.30)	(0.37)
Balance as at December 31, 2018	147.09	11.26	158.35
Increase	15.54	3.93	19.47
Decrease	(0.01)		(0.01)
Balance as at December 31, 2019	162.62	15.19	177.81
Accumulated amortization			
Balance as at January 1, 2018	(74.58)	(0.02)	(74.60)
Amortization for the year	(12.08)	(0.09)	(12.17)
Decrease	0.02		0.02
Balance as at December 31, 2018	(86.64)	(0.11)	(86.75)
Amortization for the year	(12.52)	(0.37)	(12.89)
Decrease	0.01		0.01
Balance as at December 31, 2019	(99.15)	(0.48)	(99.63)
Net book value as at December 31, 2018	60.45	11.15	71.60
Net book value as at December 31, 2019	63.47	14.71	78.18



			Unit: Million Baht
		The Company	
	Other Intangible Assets	Development Cost	Total
Historical cost			
Balance as at January 1, 2018	4,597.34	257.08	4,854.42
Business acquisition	5.45	-	5.45
Increase	204.09	119.32	323.41
Decrease	(2.24)	(9.65)	(11.89)
Currency translation differences	(31.62)	(1.29)	(32.91)
Balance as at December 31, 2018	4,773.02	365.46	5,138.48
Increase	482.15	122.09	604.24
Decrease	(0.28)	-	(0.28)
Currency translation differences	(351.37)	(29.32)	(380.69)
Balance as at December 31, 2019	4,903.52	458.23	5,361.75
Accumulated amortization			
Balance as at January 1, 2018	(2,437.64)	(0.47)	(2,438.11)
Amortization for the year	(390.04)	(3.08)	(393.12)
Decrease	0.51	-	0.51
Currency translation differences	15.62	0.03	15.65
Balance as at December 31, 2018	(2,811.55)	(3.52)	(2,815.07)
Amortization for the year	(388.34)	(11.66)	(400.00)
Decrease	0.28	-	0.28
Currency translation differences	209.86	0.58	210.44
Balance as at December 31, 2019	(2,989.75)	(14.60)	(3,004.35)
Net book value as at December 31, 2018	1,961.47	361.94	2,323.41
Net book value as at December 31, 2019	1,913.77	443.63	2,357.40



24. Exploration and Evaluation Assets

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Historical cost		
Balance as at January 1, 2018	5,098.22	166,614.27
Reclassification and adjustment	(240.44)	(7,857.80)
Reclassified and adjusted balance as at January 1, 2018	4,857.78	158,756.47
Increase	60.94	1,968.02
Transfer	(55.97)	(1,807.46)
Decrease	(0.07)	(2.36)
Currency translation differences	(147.32)	(5,901.91)
Balance as at December 31, 2018	4,715.36	153,012.76
Business acquisition	508.17	15,607.92
Increase	119.22	3,700.24
Transfer	(996.12)	(30,914.47)
Decrease	(65.83)	(2,043.21)
Currency translation differences	84.89	(7,720.10)
Balance as at December 31, 2019	4,365.69	131,643.14
Allowance for impairment of assets		
Balance as at January 1, 2018	(1,791.24)	(58,539.28)
Transfer	4.07	131.58
Currency translation differences	143.72	5,077.89
Balance as at December 31, 2018	(1,643.45)	(53,329.81)
Currency translation differences	(82.75)	1,277.73
Balance as at December 31, 2019	(1,726.20)	(52,052.08)
Net book value as at December 31, 2018	3,071.91	99,682.95
Net book value as at December 31, 2019	2,639.49	79,591.06



	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Historical cost		
Balance as at January 1, 2018	145.31	4,748.79
Increase	4.58	147.87
Currency translation differences		(32.87)
Balance as at December 31, 2018	149.89	4,863.79
Transfer	(149.89)	(4,651.73)
Currency translation differences	_	(212.06)
Balance as at December 31, 2019	-	
Net book value as at December 31, 2018	149.89	4,863.79
Net book value as at December 31, 2019	<u> </u>	_

25. Income Taxes and Deferred Taxes

Income tax rates for the Group are as follows:

	Tax Rate (%)
Petroleum income tax on petroleum businesses in Thailand	
pursuant to Petroleum Income Tax Act, B.E. 2514 and 2532	50
Corporate income tax under Revenue Code (1)(2)	20
Corporate income tax in the Republic of the Union of Myanmar	25
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	0
- From the ninth to the fifteenth accounting period	10
- From the sixteenth accounting period onwards	20
Corporate income tax in the Socialist Republic of Vietnam	50
Corporate income tax in Australia	30
Petroleum resource rent tax in Australia	40
Corporate income tax in Canada	27 (2018), 26 (2019)
Corporate income tax in the Netherlands	25
Corporate income tax in the Republic of Kenya	30
Corporate income tax in the Republic of Mozambique	32
Corporate income tax in Indonesia	
- Corporate income tax	30
- Income tax from the profit distribution	20

	Tax Rate (%)
Corporate income tax in the Federative Republic of Brazil	34
Corporate income tax in People's Democratic Republic of Algeria	38
Petroleum income tax in Malaysia (3)	38
Corporate income tax in Mexico	30
Corporate income tax in Sultanate of Oman	80
Corporate income tax in United Arab Emirates	55
Corporate income tax in Kazakhstan	30
Corporate income tax in Angola	25
Corporate income tax in Portugal	21
Corporate income tax in United Kingdom	19

- (1) The Royal Decree issued under Revenue Code Governing (No. 586) B.E. 2558 governs the reduction of the corporate income tax rate from 20% to 10% for International Headquarters (IHQ), which provides services to affiliated enterprises or domestic and overseas branch in Treasury Center (TC) and exempt from the corporate income tax for certain types of income. The Group has applied such tax rates to calculate the corporate income tax for January May 2019.
- (2) The Royal Decree issued under Revenue Code Governing (No. 674) B.E. 2561 governs the reduction and exemption of the corporate income tax rate for a Thai company which is an International Business Centre (IBC), incorporated for the purpose of providing supporting services, technical assistance, treasury center functions to affiliates or international trading. The reduction of the corporate income tax rates are from 20% to the followings;
 - 8% if the IBC incurs expenditure of at least Baht 60 million paid to recipients in Thailand in the accounting period.
 - 5% if the IBC incurs expenditure of at least Baht 300 million paid to recipients in Thailand in the accounting period.
 - 3% if the IBC incurs expenditure of at least Baht 600 million paid to recipients in Thailand in the accounting period.

Besides, there were exemption of corporate income tax for certain types of income. The Group has applied such tax rates to calculate the corporate income tax for the period from June to December 2019

(3) The petroleum income tax rate for marginal field which are approved to the tax reduction incentive to 25% tax rate.

Deferred tax assets

Deferred tax liabilities

25.1 Deferred tax assets and liabilities comprised:

	Unit:	Million US Dollar	Unit: Million Bahi			
	Consol	idated	Consc	olidated		
	2019 2018		2019	2018		
		(Restated)		(Restated)		
Deferred tax assets	961.73	462.55	28,999.99	15,009.67		
Deferred tax liabilities	(1,358.71) (781.89)		(40,970.53)	(25,372.05)		
	(396.98)	(319.34)	(11,970.54)	(10,362.38)		
	Unit:	Million US Dollar		Unit: Million Baht		
	The Co	mpany	The C	ompany		
	2019	2018	2019	2018		

315.46

315.46

19,293.05

19,293.05

10,236.75

10,236.75

25.2 The income taxes in the consolidated and the Company statements of income comprised:

639.82

639.82

	Unit	: Million US Dollar		Unit: Million Baht
	Conso	lidated	Consc	olidated
	2019	2018	2019	2018
Income Taxes:				
Current income tax expenses	1,095.22	841.73	33,941.43	27,120.93
Prior year income tax expenses				
recognized in current period	(5.59)	19.96	(175.03)	774.44
	1,089.63 861.69		33,766.40	27,895.37
Deferred Taxes:				
Change in temporary differences	(386.75)	(114.99)	(11,985.14)	(3,671.18)
Tax effect of currency translation				
on tax base	(25.88)	(14.04)	(829.56)	(459.90)
	(412.63)	(129.03)	(12,814.70)	(4,131.08)
Total	677.00	732.66	20,951.70	23,764.29

	Unit:	Million US Dollar		Unit: Million Baht	
	The Co	ompany	The Company		
	2019	2018	2019	2018	
Income Taxes:					
Current income tax expenses	679.94	521.96	21,077.80	16,895.60	
Prior year income tax expenses					
recognized in current period	(3.68)	0.04	(114.81)	2.62	
	676.26	522.00	20,962.99	16,898.22	
Deferred Taxes:					
Change in temporary differences	(332.91)	(154.25)	(10,327.36)	(5,001.95)	
Tax effect of currency translation					
on tax base	20.94	(12.97)	630.24	(424.87)	
	(311.97)	(167.22)	(9,697.12)	(5,426.82)	
Total	364.29	354.78	11,265.87	11,471.40	

25.3 The income tax on the Group's profit before income taxes differ from the theoretical amount that would arise using the basic tax rate of the country in which the Company is located are as follows:

	Unit: Milli		Unit: Million Baht		
	Consol	idated	Conso	lidated	
	2019	2018	2019	2018	
Profit before income taxes	2,246.06	1,852.27	69,754.24	59,970.58	
Tax calculated at a tax rate of 50%	1,123.03	926.13	34,877.12	29,985.29	
Tax effect of:					
(Gain) loss from the entities not subject to tax	29.06	(3.98)	902.54	(128.74)	
Nondeductible expenses	26.61	451.95	826.35	14,632.69	
Adjustment in respect of prior year	(8.73)	19.96	(272.04)	774.44	
Results of operations of associates and joint					
ventures, net of tax	(6.17)	(3.96)	(190.21)	(128.12)	
Tax credit on petroleum royalty	(505.32)	(449.75)	(15,693.36)	(14,561.41)	
Tax credit on foreign corporate income tax	-	(11.59)	-	(375.16)	
Deferred tax on functional currency	(25.88)	(14.04)	(829.56)	(459.90)	
Differences in tax rate of the Group's					
operating countries	29.37	(193.55)	911.98	(6,266.62)	
Others	15.03	11.49	418.88	291.82	
Income taxes	677.00	732.66	20,951.70	23,764.29	

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	Unit: M	Unit: Million Baht			
	The Cor	mpany	The C	company	
	2019 2018 20		2019	2018	
Profit before income taxes	1,500.01	1,166.30	46,540.96	37,747.03	
Tax calculated at a tax rate of 50%	750.01	583.15	23,270.48	18,873.52	
Tax effect of:					
Gain from the entities not subject to tax	(23.09)	(33.15)	(716.34)	(1,072.85)	
Nondeductible expenses	(53.60)	170.03	(1,662.95)	5,502.95	
Adjustment in respect of prior year	(3.41)	0.04	(106.26)	2.62	
Tax credit on petroleum royalty	(404.91)	(354.06)	(12,563.48)	(11,464.12)	
Deferred tax on functional currency	20.94	(12.97)	630.24	(424.87)	
Differences in tax rate on profit before					
income tax	94.92	1.63	2,945.23	52.67	
Others	(16.57)	0.11	(531.05)	1.48	
Income taxes	364.29	354.78	11,265.87	11,471.40	

25.4 Changes in deferred tax assets and liabilities are as follows:

					1	Unit: Million US Dollar
			Consolida	ted		
	As at	Statement of	Statement of	Business	Currency	As at
	Jan 1, 2019	income	comprehensive	acquisition	translation	Dec 31, 2019
	(Restated)		income		differences	
Deferred tax assets:						
Decommissioning costs	828.34	75.25	-	112.56	-	1,016.15
Provision for employee benefits	74.43	16.78	12.02	-	0.15	103.38
Property, plant and equipment and intangible assets	7.80	(0.02)	-	-	-	7.78
Loss carried forward	264.77	29.55	2.94	0.51	-	297.77
Financial derivative	0.02	0.52	-	-	-	0.54
Provision for impairment loss on assets	114.74	10.69	-	-	-	125.43
Others	142.99	(16.54)	0.33	74.30		201.08
	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
Total	1,510.49	142.42	15.29	187.37	0.15	1,855.72

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		Consolidate	ed 		
As at	Statement of	Statement of	Business	Currency	As at
Jan 1, 2019	income	comprehensive	acquisition	translation	Dec 31, 2019
(Restated)		income		differences	
1,820.30	(274.20)	-	677.80	-	2,223.90
3.63	7.70	3.04	-	-	14.37
5.02	(4.02)	(0.20)	12.44		13.24
1,828.95	(270.52)	2.84	690.24		2,251.51
0.88	0.31			<u>-</u>	1.19
1,829.83	(270.21)	2.84	690.24	-	2,252.70
(319.34)	412.63	12.45	(502.87)	0.15	(396.98)
	Jan 1, 2019 (Restated) 1,820.30 3.63 5.02 1,828.95 0.88 1,829.83	Jan 1, 2019 income (Restated) 1,820.30 (274.20) 3.63 7.70 5.02 (4.02) 1,828.95 (270.52) 0.88 0.31 1,829.83 (270.21)	As at Statement of Jan 1, 2019 income comprehensive income 1,820.30 (274.20) - 3.63 7.70 3.04 5.02 (4.02) (0.20) 1,828.95 (270.52) 2.84 0.88 0.31 - 1,829.83 (270.21) 2.84	Jan 1, 2019 (Restated) income comprehensive income acquisition 1,820.30 3.63 7.70 3.63 7.70 3.04 - 5.02 4.02) - 677.80 3.04 - 1,828.95 (270.52) - 677.80 3.04 - (0.20) 12.44 4.02) - 690.24 690.24 690.24 0.88 0.31 1,829.83 0.31 2.84 690.24 - 690.24	Consolidated As at Jan 1, 2019 income (Restated) Statement of comprehensive income Business acquisition Currency translation differences 1,820.30 (274.20) - 677.80 - 3.63 7.70 3.04 - - 5.02 (4.02) (0.20) 12.44 - 1,828.95 (270.52) 2.84 690.24 - - - 0.88 0.31 - - - 1,829.83 (270.21) 2.84 690.24 - - - -

						Unit: Million Baht
			Consolid	dated		
	As at	Statement of	Statement of	Business	Currency	As at
	Jan 1, 2019	income	comprehensive	acquisition	translation	Dec 31, 2019
	(Restated)		income		differences	
Deferred tax assets:						
Decommissioning costs	26,879.51	2,307.40	-	3,448.69	(1,992.84)	30,642.76
Provision for employee benefits	2,410.99	524.03	363.22	-	(182.50)	3,115.74
Property, plant and equipment 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	0.76	16.21	-	-	(0.50)	16.47
Provision for impairment loss 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
	46,499.45	3,440.46	464.47	5,754.66	(3,325.10)	52,833.94
Tax effect of currency translation on tax base	2,511.42	839.33			(227.24)	3,123.51
Total	49,010.87	4,279.79	464.47	5,754.66	(3,552.34)	55,957.45

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						Unit: Million Baht
			Consolida	ated		
	As at	Statement of	Statement of	Business	Currency	As at
	Jan 1, 2019	income	comprehensive	acquisition	translation	Dec 31, 2019
	(Restated)		income		differences	
Deferred tax liabilities:						
Property, plant and equipment and intangible assets	59,068.01	(8,651.19)	-	20,728.07	(4,085.47)	67,059.42
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
	59,344.79	(8,544.68)	88.10	21,103.45	(4,099.56)	67,892.10
Tax effect of currency translation on tax base	28.46	9.77			(2.34)	35.89
Total	59,373.25	(8,534.91)	88.10	21,103.45	(4,101.90)	67,927.99
Net	(10,362.38)	12,814.70	376.37	(15,348.79)	549.56	(11,970.54)

Deferred tax assets:

Decommissioning costs

Provision for employee benefits

Loss carried forward

Others

Tax effect of currency translation on tax base

Total

Deferred tax liabilities:

Property, plant and equipment and intangible assets

Others

Tax effect of currency translation on tax base

Total

Net

			Unit: Million US Dollar				
	The Company						
As at	Statement of	Statement of	As at				
Jan 1, 2019	income	comprehensive	Dec 31, 2019				
		income					
642.63	39.30	-	681.93				
69.04	17.75	12.06	98.85				
182.47	83.25	2.94	268.66				
93.77	(10.55)		83.22				
987.91	129.75	15.00	1,132.66				
63.32	(20.94)		42.38				
1,051.23	108.81	15.00	1,175.04				
700.00	(007.00)		F04.04				
732.00 3.77	(207.36) 4.20	2.61	524.64 10.58				
735.77	(203.16)	2.61	535.22				
	-		-				
735.77	(203.16)	2.61	535.22				
315.46	311.97	12.39	639.82				

Unit: Million Baht

		The Company		
As at	Statement of	Statement of	Currency	As at
Jan 1, 2019	income	comprehensive	translation	Dec 31, 2019
		income	differences	
20,852.87	1,219.25	-	(1,509.45)	20,562.67
2,240.19	550.58	374.06	(184.36)	2,980.47
5,921.25	2,582.65	91.19	(493.71)	8,101.38
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
2,054.83	(630.24)		(146.66)	1,277.93
34,112.42	3,395.08	465.28	(2,540.34)	35,432.44
23,753.52	(6,432.65)	-	(1,500.67)	15,820.20
122.15	130.61	80.99	(14.56)	319.19
23,875.67	(6,302.04)	80.99	(1,515.23)	16,139.39
<u> </u>				
23,875.67	(6,302.04)	80.99	(1,515.23)	16,139.39
10,236.75	9,697.12	384.29	(1,025.11)	19,293.05
	20,852.87 2,240.19 5,921.25 3,043.28 32,057.59 2,054.83 34,112.42 23,753.52 122.15 23,875.67	Jan 1, 2019 income 20,852.87 1,219.25 2,240.19 550.58 5,921.25 2,582.65 3,043.28 (327.16) 32,057.59 4,025.32 2,054.83 (630.24) 34,112.42 3,395.08 23,753.52 (6,432.65) 122.15 130.61 23,875.67 (6,302.04) - - 23,875.67 (6,302.04)	As at Jan 1, 2019 income comprehensive income income 20,852.87 1,219.25 - 2,240.19 550.58 374.06 5,921.25 2,582.65 91.19 3,043.28 (327.16) 0.03 32,057.59 4,025.32 465.28 2,054.83 (630.24) - 34,112.42 3,395.08 465.28 23,753.52 (6,432.65) - 122.15 130.61 80.99 23,875.67 (6,302.04) 80.99 23,875.67 (6,302.04) 80.99	As at Statement of comprehensive income income income differences 20,852.87

26. Prepaid Expenses

Prepaid expenses comprised:

	Unit: Million US Dollar			Unit: Million Baht
	Conso	lidated	Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Prepayments for the construction of				
a gas pipeline ¹	11.68	13.04	352.29	423.28
Prepayments for rental fee	2.51	2.82	75.51	91.49
Others	3.68	4.01	111.09	130.01
Total	17.87	19.87	538.89	644.78

¹ Prepayments for investment in the Myanmar Zawtika pipeline project to facilitate the construction of onshore gas pipeline, the Group will amortize these prepayments as expenses in accordance with Facilities, services and information sharing agreement.

27. Financial Derivatives

Financial derivatives comprised:

	Un	it: Million US Dollar	Unit: Million Baht		
	Consolidated		Conso	lidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Financial derivative assets					
Financial derivative assets - Current					
Oil price hedge	12.09	38.92	364.53	1,262.88	
Forward foreign exchange	0.25	2.94	7.63	95.36	
Cross currency and interest rate swap	-	2.90	-	94.22	
Total financial derivative assets - Current	12.34	44.76	372.16	1,452.46	
Financial derivative assets - Non - current					
Cross currency and interest rate swap	83.68	22.10	2,523.21	717.10	
Total financial derivative assets - Non - current	83.68	22.10	2,523.21	717.10	

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Financial derivative liabilities
Financial derivative liabilities - Current
Oil price hedge
Forward foreign exchange
Cross currency and interest rate swap
Total financial derivative liabilities - Curren

	it: Million US Dollar	Unit: Million Ba Consolidated		
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019 Dec 31, 20		
2.09	0.82	63.16	26.56	
13.12	3.06	395.60	99.23	
-	6.81	-	220.95	
15.21	10.69	458.76	346.74	

	Un	it: Million US Dollar	Unit: Million Baht	
	The Company		The Co	ompany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Financial derivative assets				
Financial derivative assets - Current				
Forward foreign exchange	0.25	2.74	7.63	88.75
Cross currency and interest rate swap	-	2.90	-	94.22
Total financial derivative assets - Current	0.25	5.64	7.63	182.97
Financial derivative assets - Non - current				
Cross currency and interest rate swap	64.10	22.10	1,932.75	717.10
Total financial derivative assets - Non - current	64.10	22.10	1,932.75	717.10
Financial derivative liabilities				
Financial derivative liabilities - Current				
Forward foreign exchange	12.03	2.81	362.65	91.08
Cross currency and interest rate swap	-	6.81	-	220.95
Total financial derivative liabilities - Current	12.03	9.62	362.65	312.03

Cash flow hedges

The Company entered into the foreign exchange forward that were being used to hedge cash flow risk of highly probable forecast transactions, as well as cross currency and interest rate swaps to fix the US Dollar interest rate and US Dollar redemption value to reduce the impact of foreign exchange rates volatility, with matching critical terms, i.e. the interest payment interval, maturity date on the currency leg of the swap with the underlying Thai Baht debentures or debt issuance.

In 2019, the Company follows the accounting for hedge on cross currency and interest rate swaps in which the effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges are recognized in other comprehensive income. The amounts that had been recognized in other comprehensive income shall be reclassified to statement of income in the same period when the underlying debt affects the statements of income. The gain or loss relating to the ineffective portion is recognized immediately in the statements of income. The Company had reclassified gain or loss previously recognized in other comprehensive income to the statements of loss during 2019 amount of US Dollar 0.01 million.

28. Other Non-current Assets

Other non-current assets comprised:

	Ur	Unit: Million Baht		
	Consolidated		Conso	lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Land usage fee	22.86	24.29	689.39	788.30
Advance payment and accrued interest	36.10	5.22	1,088.49	169.30
Pension scheme investments from joint				
operation	44.88	-	1,353.50	-
Prepaid assessed tax ¹	-	59.90	-	1,943.84
Others	38.30	24.47	1,154.78	793.86
Total	142.14	113.88	4,286.16	3,695.30

	Uni	t: Million US Dollar	Unit: Million Bal		
	The Company		The Company		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Deposits	4.86	4.50	146.63	146.02	
Land usage fee	5.71	6.07	172.35	197.08	
Others	1.10	1.35	33.05	43.82	
Total	11.67	11.92	352.03	386.92	

¹ Prepaid assessed tax includes penalty for Natuna 2 B.V., which is a joint operation of the Group, as disclosed in Note 45 - Commitments and Contingent Liabilities under "Contingent liabilities".

29. Loans and Debentures

29.1 Loans and debentures are as follows:

	Ur	nit: Million US Dollar	Unit: Million B	
	Consolidated		Consolidated	
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Current portion of long-term				
financial liabilities				
Current portion of debentures	-	406.75	-	13,198.88
Finance lease liabilities with maturity date				
within 1 Year	18.28	0.26	551.26	8.67
Total	18.28	407.01	551.26	13,207.55
Long-term financial liabilities				
Debentures	2,704.75	1,537.77	81,558.91	49,900.27
Total debentures	2,704.75	1,537.77	81,558.91	49,900.27
Long-term loans				
Long-term loans from financial Institutions	593.26	-	17,889.20	-
Finance lease liabilities	125.41	0.99	3,781.71	31.98
Total long-term loans	718.67	0.99	21,670.91	31.98
Total	3,423.42	1,538.76	103,229.82	49,932.25

	Ur		Unit: Million Baht	
	The Company		The Co	ompany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Current portion of long-term				
financial liabilities				
Current portion of debentures	-	406.75	-	13,198.88
Finance lease liabilities with maturity date				
within 1 Year	0.30	0.26	9.00	8.67
Total	0.30	407.01	9.00	13,207.55

	Unit: Million US Dollar			Unit: Million Baht
	The Company		The Co	ompany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Long-term financial liabilities				
Debentures	377.76	351.01	11,391.04	11,390.10
Total debentures	377.76	351.01	11,391.04	11,390.10
Long-term loans				
Finance lease liabilities	0.76	0.99	22.98	31.98
Total long-term loans	0.76	0.99	22.98	31.98
Total	378.52	352.00	11,414.02	11,422.08

29.2 Debentures

Movements in debentures for the year are as follows:

	Unit: Million US Dolla	r Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	1,944.52	63,099.15
Increase	1,130.05	35,070.94
Repayment of debentures	(418.20)	(12,978.80)
Deferred finance cost	(7.23)	(209.92)
Foreign exchange differences	55.61	1,725.96
Currency translation differences	<u> </u>	(5,148.42)
Balance as at December 31, 2019	2,704.75	81,558.91

	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	757.76	24,588.98
Repayment of debentures	(418.20)	(12,978.80)
Deferred finance cost	0.002	0.76
Foreign exchange differences	38.20	1,185.68
Currency translation differences		(1,405.58)
Balance as at December 31, 2019	377.76	11,391.04

The carrying value of unsecured and unsubordinated debentures comprised:

				Unit: Million US Dollar			Unit: Million Baht
				Conso	lidated	Consc	olidated
	Interest rates	Effective interest rates					
	(% per annum)	(% per annum)	Maturity date	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Maturity date within 1 year							
- Debentures Baht 5,000 million ¹	4.80	4.873	May 29, 2019	-	154.08	-	4,999.75
- Debentures Baht 8,200 million ²	3.91	3.976	June 6, 2019	-	252.67	-	8,199.13
Maturity date over 1 year but not							
exceeding 3 years							
- Debentures US Dollar 700 million $^{\rm 3}$	5.692	5.815	April 5, 2021	699.73	699.52	21,099.71	22,699.25
- Debentures Baht 15,000 million ⁴	2.26	2.314	June 19, 2022	496.95	-	14,984.94	-
Maturity date over 5 years							
- Debentures Baht 11,400 million ⁵	4.82	4.89	June 6, 2029	377.76	351.01	11,391.04	11,390.10
- Debentures US Dollar 490 million ³	6.35	6.507	June 12, 2042	487.36	487.24	14,695.76	15,810.92
- Debentures US Dollar 650 million $^{\rm 6}$	3.903	3.941	December 6, 2059	642.95		19,387.46	
Total carrying value				2,704.75	1,944.52	81,558.91	63,099.15

				Unit: Million US Dollar		Unit: Million US Dollar Unit: Million Bah	
				The Co	ompany	The co	ompany
	Interest rates	Effective interest rates					
	(% per annum)	(% per annum)	Maturity date	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Maturity date within 1 year							
- Debentures Baht 5,000 million ¹	4.80	4.873	May 29, 2019	-	154.08	-	4,999.75
- Debentures Baht 8,200 million ²	3.91	3.976	June 6, 2019	-	252.67	-	8,199.13
Maturity date over 5 years							
- Debentures Baht 11,400 million ⁵	4.82	4.89	June 6, 2029	377.76	351.01	11,391.04	11,390.10
Total carrying value				377.76	757.76	11,391.04	24,588.98

¹ In June 2011, the Company entered into a Cross Currency Swap transaction with a financial institution to swap Thai Baht debenture for US Dollar 161.81 million at the average exchange rate of Baht 30.90 per US Dollar. Under this agreement, the average interest rate was charged at the rate of 4.93% per annum.

- (1) 1.00% per annum of the debenture par value or
- (2) Present value that is higher than the debenture par value. Present value is the debenture par value and the interest receivable if the debenture is redeemed on the maturity date minus accrued interest and interest payable to the date of early redemption discounted using Treasury Rate at the early redemption date plus 0.35% per annum.

² On June 6, 2014, the Company entered into a Cross Currency Swap transaction with a financial institution to swap Thai Baht debentures for US Dollar 251.07 million at the average exchange rate of Baht 32.66 per US Dollar. Under this agreement, the average interest rate was charged at the rate of 3.013% per annum.

³ The Group has Optional Redemption rights. The redemption price is the sum of the debenture par value, accrued interest, and interest payable up to the day before the maturity date plus an applicable premium whereby the applicable premium is the higher of the following:

⁴ On June 19, 2019, the group has issued and offered the 3 years unsecured and unsubordinated debentures in the amount of Baht 15,000 million with a fixed interest rate of 2.26% per annum. The Group entered into a Cross Currency Swap transaction with a financial institution to swap Thai Baht debentures for US Dollar 480 million at the average exchange rate of Baht 31.25 per US Dollar. Under this agreement, the average interest rate was charged at the rate of 2.79% per annum.

On June 6, 2014, the Company entered into a Cross Currency Swap transaction with a financial institution to swap Thai Baht debentures for US Dollar 349.05 million at the average exchange rate of Baht 32.66 per US Dollar. Under this agreement, the average interest rate was charged at the rate of 4.989% per annum.

⁶ On December 6, 2019, the Group has issued and offered the 40 years unsecured and unsubordinated debentures in the amount of US Dollar 650 million with a fixed interest rate of 3.903% per annum.

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29.3 Long-term loans from financial institutions

Movements in long-term loans from financial institutions for the year are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	-	-
Increase	600.00	18,620.99
Deferred finance cost	(6.74)	(203.20)
Currency translation differences		(528.59)
Balance as at December 31, 2019	593.26	17,889.20

Long-term loans from financial institutions comprised:

				Unit: Million US Dollar Consolidated		Consol	Unit: Million Baht
	Interest rates	Effective interest rates					
	(% per annum)	(% per annum)	Maturity date	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Maturity date over 3 year but not							
exceeding 5 years							
- Loan US Dollar 480 million ¹	6M LIBOR + 0.85	3.063	Oct 20, 2024	474.15	-	14,297.44	-
- Loan US Dollar 120 million ¹	6M LIBOR + 0.95	3.056	Oct 20, 2024	119.11		3,591.76	
Total Carrying Value				593.26	-	17,889.20	-

¹ The Group has entered into a long-term loan agreement with a financial institution. The credit facilities is at US Dollar 600 million with maturity of 5 years. The Group has drawdown facilities in full amount by the fourth quarter of 2019.

Unit: Million Baht

29.4 Finance lease liabilities

The Group has entered into finance lease contracts which mainly are leases for petroleum exploration and production assets. The contracts period is not later than 19 years. Movements in finance lease liabilities for the year are as follows:

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	1.25	40.65
Business acquisition	150.14	4,631.07
Repayment of finance lease liabilities	(12.93)	(401.48)
Deferred finance cost	5.15	160.03
Foreign exchange differences	0.08	2.59
Currency translation differences	-	(99.89)
Balance as at December 31, 2019	143.69	4,332.97

	The Company	The Company
Balance as at January 1, 2019	1.25	40.65
Repayment of finance lease liabilities	(0.31)	(9.63)
Deferred finance cost	0.04	1.49
Foreign exchange differences	0.08	2.37
Currency translation differences		(2.90)
Balance as at December 31, 2019	1.06	31.98

Unit: Million US Dollar

Finance lease liabilities comprised:

	Ur	Unit: Million Baht			
	Consc	olidated	Consolidated		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Finance lease liabilities					
- Within 1 year	27.64	0.31	833.69	10.03	
- Over 1 year but not exceeding 5 years	81.46	1.04	2,456.37	33.92	
- Over 5 years	78.66	-	2,371.86	-	
Deferred finance cost	(44.07)	(0.10)	(1,328.95)	(3.30)	
Total present value of finance lease liabilities	143.69	1.25	4,332.97	40.65	

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	Ur	nit: Million US Dollar	Unit: Million Baht		
	The Co	ompany	The Company		
	Dec 31, 2019 Dec 31, 2018		Dec 31, 2019	Dec 31, 2018	
Finance lease liabilities					
- Within 1 year	0.33	0.31	10.04	10.03	
- Over 1 year but not exceeding 5 years	0.79	1.04	23.88	33.92	
Deferred finance cost	(0.06)	(0.10)	(1.94)	(3.30)	
Total present value of finance lease liabilities	1.06	1.25	31.98	40.65	

30. Short-term Provision

Short-term provision comprised:

Provision for decommissioning costs

Provision for remuneration for the
renewal of petroleum production

Other provisions

Total

Un	it: Million US Dollar		Unit: Million Baht
Consol	lidated	Consc	olidated
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
42.76	33.60	1,289.38	1,090.30
77.87	89.07	2,348.14	2,890.32
10.87	11.00	327.74	357.09
131.50	133.67	3,965.26	4,337.71

Provision for decommissioning costs

Provision for remuneration for the
renewal of petroleum production

Other provisions

Total

Un	it: Million US Dollar		Unit: Million Baht
The Co	mpany	The Co	ompany
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
12.73	4.68	383.87	151.94
75.40	88.99	2,273.51	2,887.69
9.76		294.41	
97.89	93.67	2,951.79	3,039.63

31. Provision for Employee Benefits

Provision for employee benefits are as follows:

	Unit: Million US Dollar			Unit: Million Baht
	Conso	Consolidated		idated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Statements of financial position				
Retirement benefits	232.91	126.34	7,022.96	4,099.80
Other long-term benefits	12.34	8.92	372.24	289.48
Liabilities in the statements of financial position	245.25 135.26		7,395.20	4,389.28
Statements of income				
Retirement benefits	32.31	12.25	1,016.30	395.47
Other long-term benefits	2.94	1.15	90.03	37.09
Total	35.25	13.40	1,106.33	432.56
Other long-term benefits	2.94	1.15	90.03	37.09

	Ur	Unit: Million US Dollar		
	The Co	ompany	The Co	mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Statements of financial position				
Retirement benefits	167.05	112.59	5,037.13	3,653.72
Other long-term benefits	12.33	8.91	371.76	289.04
Liabilities in the statements of financial position	179.38 121.50		5,408.89	3,942.76
Statements of income				
Retirement benefits	28.31	10.71	890.38	345.73
Other long-term benefits	2.94	1.15	89.98	37.29
Total	31.25	11.86	980.36	383.02

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

	Unit: Million US Dollar Unit: Million	
	Consolidated	Consolidated
Balance as at January 1, 2019	126.34	4,099.80
Business acquisition	44.89	1,354.08
Current service cost	9.36	290.71
Past service cost	18.71	593.83
Interest cost	4.24	131.76
Loss from actuarial assumptions	26.65	805.49
Benefits paid	(8.23)	(255.73)
Foreign exchange differences	10.95	340.13
Currency translation differences		(337.11)
Balance as at December 31, 2019	232.91	7,022.96

	Unit: Million US Dollar Unit: Million	
	The Company	The Company
Balance as at January 1, 2019	112.59	3,653.72
Current service cost	8.19	254.34
Past service cost	16.24	515.57
Interest cost	3.88	120.47
Loss from actuarial assumptions	24.12	728.86
Benefits paid	(7.71)	(239.47)
Foreign exchange differences	9.74	302.49
Currency translation differences		(298.85)
Balance as at December 31, 2019	167.05	5,037.13

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

	Unit	t: Million US Dollar	Unit: Million Bah	
	Consolidated		Conso	lidated
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Current service cost	9.36	8.35	290.71	269.48
Past service cost	18.71	-	593.83	-
Interest cost	4.24	3.90	131.76	125.99
Total	32.31	12.25	1,016.30	395.47
Other long-term benefits	2.94	1.15	90.03	37.09
Expenses recognized in the statements of income	35.25	13.40	1,106.33	432.56

	Unit	t: Million US Dollar		Unit: Million Baht
	The Co	The Company		mpany
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
Current service cost	8.19	7.10	254.34	229.22
Past service cost	16.24	-	515.57	-
Interest cost	3.88	3.61	120.47	116.51
Total	28.31	10.71	890.38	345.73
Other long-term benefits	2.94	1.15	89.98	37.29
Expenses recognized in the statements of income	31.25	11.86	980.36	383.02

Details of (gain) loss from actuarial assumptions of provision for employee benefits recognized in the statements of comprehensive income are as follows:

	U	nit: Million US Dollar	Unit: Million	
	Consolidated Consolid		lidated	
	2019	2018	2019	2018
Change in demographic assumptions	-	2.12	-	69.55
Change in financial assumptions	26.65	2.59	805.49	84.62
Experience adjustments	-	(1.01)	-	(33.06)
Total	26.65	3.70	805.49	121.11

	Ur	nit: Million US Dollar	Unit: Million Bah	
	The Company		The Company	
	2019	2018	2019	2018
Change in demographic assumptions	-	1.80	-	58.98
Change in financial assumptions	24.12	2.82	728.86	92.16
Experience adjustments	-	(4.44)	-	(145.12)
Total	24.12	0.18	728.86	6.02

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Major Actuarial Assumptions for Retirement Benefits

	% per annum				
	2019	2018			
Discount rate	1.9 - 7.15	3.2			
Inflation rate	2.0 - 2.5	2.5			
Credit interest rate on provident funds	3.4 - 4.3	3.4 - 4.3			
Turnover rate	0.0 - 14.0	0.0 – 14.0			
Mortality rate	Based on the announcement of	Based on the announcement of			
	each country	each country			

Impact on Defined Retirement Benefit Obligation Plans

	Unit: US Million Dollar			Unit: Million Baht
	Increase (Decrease)		Increase (Decrease	
	2019 2018		2019	2018
Discount rate				
Increase 1%	(21.12)	(12.36)	(636.87)	(400.92)
Decrease 1%	25.51	14.67	769.08	475.88

The above sensitivity analysis is based on a change in assumption of the discount rate without other changes in the underlying assumptions. 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 obligations to the change in major assumptions, the same method - present value of the defined benefit obligation calculated with the projected unit credit method - has been applied as when calculating the pension liability recognized within the statements of financial position.

As of December 31, 2019, the weighted average duration of the defined retirement benefit obligation is 20 years. (2018: 20 years)

Maturity analysis of undiscounted retirement benefits*:

	Unit: Million US Dollar Unit: Million			
	31 Decem	ber 2019	31 Decem	nber 2019
	Consolidated	The Company	Consolidated	The Company
Less than 1 year	5.83	5.15	175.70	155.40
Over 1 to 5 years	37.67	34.98	1,135.89	1,054.90
Over 5 to 10 years	77.18	71.46	2,327.20	2,154.62
Over 10 years	323.41	291.73	9,752.07	8,796.77
Total	444.09	403.32	13,390.86	12,161.69

^{*} Not include retirement benefit paid of joint operations

On April 5, 2019, the Labour Protection Act (No.7) B.E. 2562 was published in the Royal Gazette and was effective in May 2019. The amendment defines the additional compensation of not less than the 400 day's pay based on the latest hiring rate for the employee being laid off by the employer after serving 20 years or more. As a result, it changes the retirement benefit plan, in which the Group's provision for retirement benefits increased by US Dollar 18.71 million (Baht 593.83 million) in the consolidated financial statement and US Dollar 16.24 million (Baht 515.57 million) in the Company's financial statement. The Group recognized the effect from the amendment by recognizing past service cost as expense in the statements of income.

32. Provision for Decommissioning Costs

Provision for decommissioning costs are as follows:

Provision for decommissioning costs
Less Current portion
Non-current portion of provision for
decommissioning costs

Unit	t: Million US Dollar	Unit: Million Baht				
Conso	lidated	Consolidated				
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018			
3,010.27	2,277.25	90,771.73	73,896.52			
(42.76)	(33.60)	(1,289.38)	(1,090.30)			
2,967.51	2,243.65	89,482.35	72,806.22			

Provision for decommissioning costs
Less Current portion
Non-current portion of provision for
decommissioning costs

Uni	Unit: Million Baht				
The Co	ompany	The Company			
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018		
1,584.35	1,375.34	47,774.55	44,629.50		
(12.73)	(4.68)	(383.87)	(151.94)		
1,571.62	1,370.66	47,390.68	44,477.56		

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

	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	2,277.25	73,896.52
Business acquisition	331.25	10,174.83
Additional provision	327.44	10,162.12
Abandonment cost incurred during the year	(14.63)	(454.27)
Accretion expenses	102.82	3,192.27
Reversal of provision	(13.86)	(430.25)
Currency translation differences		(5,769.49)
Balance as at December 31, 2019	3,010.27	90,771.73

	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	1,375.34	44,629.50
Additional provision	152.43	4,730.74
Abandonment cost incurred during the year	(1.24)	(38.54)
Accretion expenses	57.82	1,795.23
Currency translation differences		(3,342.38)
Balance as at December 31, 2019	1,584.35	47,774.55

33. Provision for Remuneration for the Renewal of Petroleum Production

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

	Un	it: Million US Dollar	Unit: Million Baht		
	Consc	olidated	Consolidated		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Provision for remuneration for the					
renewal of petroleum production	268.63	327.73	8,100.25	10,634.84	
<u>Less</u> Current portion	(77.87)	(89.07)	(2,348.14)	(2,890.32)	
Non-current portion of provision for					
remuneration for the renewal of					
petroleum production	190.76	238.66	5,752.11	7,744.52	

	Un	it: Million US Dollar	Unit: Million Baht		
	The Co	ompany	The Company		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Provision for remuneration for the					
renewal of petroleum production	250.32	327.39	7,548.12	10,623.78	
Less Current portion	(75.40)	(88.99)	(2,273.51)	(2,887.69)	
Non-current portion of provision for					
remuneration for the renewal of					
petroleum production	174.92	238.40	5,274.61	7,736.09	

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

·	<u> </u>	
	Unit: Million US Dollar	Unit: Million Baht
	Consolidated	Consolidated
Balance as at January 1, 2019	327.73	10,634.84
Increase	19.35	600.65
Abandonment cost incurred during the year	(90.75)	(2,816.69)
Accretion expenses	12.33	382.74
Reversal of provision	(0.03)	(0.98)
Currency translation differences	-	(700.31)
Balance as at December 31, 2019	268.63	8,100.25
	Unit: Million US Dollar	Unit: Million Baht
	The Company	The Company
Balance as at January 1, 2019	327.39	10,623.78
Abandonment cost incurred during the year	(88.99)	(2,761.78)
Accretion expenses	11.92	370.00
Currency translation differences	+	(683.88)
Balance as at December 31, 2019	250.32	7,548.12

34. Other Non-current Liabilities

Other Non-current liabilities comprised:

	Uni	t: Million US Dollar	Unit: Million Baht		
	Consc	lidated	Consolidated		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Contingent consideration from participating					
interest acquisition in joint venture	51.86	-	1,563.84	-	
Land usage fee	27.90	25.92	841.23	841.24	
Retirement reserve from co-venturers	26.09	23.29	786.84	755.69	
Others	12.95	0.56	390.42	18.02	
Total	118.80 49.		3,582.33	1,614.95	

	Unit	:: Million US Dollar	Unit: Million Baht		
	The Co	mpany	The Company		
	Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018	
Land usage fee	6.97	6.48	210.31	210.31	
Retirement reserve from co-venturers	18.31	16.57	552.04	537.61	
Total	25.28	23.05	762.35	747.92	

35. Fair Value

35.1 Fair value estimation

The following table presents the financial assets and liabilities that are measured at fair value.

	Unit: Million US Dollar				Unit: Million Bah			
	Consolidated			Consolidated				
		Dec 31	, 2019		Dec 31, 2019			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Financial assets								
Investments in trading securities	213.70	-	-	213.70	6,444.00	-	-	6,444.00
Investments in available-for-sale securities	0.52	-	-	0.52	15.81	-	-	15.81
Financial derivatives								
- Oil price hedge	-	12.09	-	12.09	-	364.53	-	364.53
- Forward foreign exchange	-	0.25	-	0.25	-	7.63	-	7.63
- Cross currency and interest rate swap	-	83.68	-	83.68	-	2,523.21	-	2,523.21
Other non-current assets								
- Pension scheme investments from joint								
operation	44.88		<u> </u>	44.88	1,353.50	<u>-</u>	-	1,353.50
Total assets	259.10	96.02	-	355.12	7,813.31	2,895.37	-	10,708.68

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			Unit: Mi	llion US Dollar	Unit: Million Baht				
	Consolidated				Consolidated				
	Dec 31, 2019				Dec 31, 2019				
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	
Financial liabilities									
Financial derivatives									
- Oil price hedge	-	2.09	-	2.09	-	63.16	-	63.16	
- Forward foreign exchange	-	13.12	-	13.12	-	395.60	-	395.60	
Other non-current liabilities									
- Deferred considerations acquired through									
business acquisition	-	-	7.10	7.10	-	-	213.94	213.94	
- Contingent consideration from participating									
interest acquisition in joint venture	-	-	51.86	51.86	-	-	1,563.84	1,563.84	
Total liabilities	-	15.21	58.96	74.17	_	458.76	1,777.78	2,236.54	

	Unit: Million US Dollar					Unit: Million Baht			
	Consolidated Dec 31, 2018				Consolidated Dec 31, 2018				
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	
Financial assets									
Short-term investments									
- Debt securities (with embedded derivatives)	-	49.87	-	49.87	-	1,618.26	-	1,618.26	
Investments in trading securities	70.55	-	-	70.55	2,289.34	-	-	2,289.34	
Investments in available-for-sale securities	11.01	-	-	11.01	357.17	-	-	357.17	
Financial derivatives									
- Oil price hedge	-	38.92	-	38.92	-	1,262.88	-	1,262.88	
- Forward foreign exchange	-	2.94	-	2.94	-	95.36	-	95.36	
- Cross currency and interest rate swap		25.00	<u>-</u>	25.00	<u> </u>	811.32	<u> </u>	811.32	
Total assets	81.56	116.73	-	198.29	2,646.51	3,787.82		6,434.33	
Financial liabilities						_			
Deferred considerations acquired through business									
acquisition	-	-	465.97	465.97	-	-	15,120.70	15,120.70	
Financial derivatives									
- Oil price hedge	-	0.82	-	0.82	-	26.56	-	26.56	
- Forward foreign exchange	-	3.06	-	3.06	-	99.23	-	99.23	
- Cross currency and interest rate swap		6.81		6.81	<u> </u>	220.95		220.95	
Total liabilities	-	10.69	465.97	476.66	-	346.74	15,120.70	15,467.44	

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		Unit: N	lillion US Dollar	Unit: Million Baht				
The Company				The Company				
Dec 31, 2019				Dec 31, 2019				
Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	
0.21	-	-	0.21	6.34	-	-	6.34	
-	0.25	-	0.25	-	7.63	-	7.63	
-	64.10	-	64.10	-	1,932.75	-	1,932.75	
0.21	64.35	-	64.56	6.34	1,940.38	-	1,946.72	
-	12.03	-	12.03	-	362.65	-	362.65	
-	12.03	-	12.03	-	362.65		362.65	
	0.21	Dec 31. Level 1 Level 2 0.21 - 0.25 - 64.10 0.21 64.35	The Company Dec 31, 2019 Level 1 Level 2 Level 3 0.21 - 0.25 - - 64.10 - 0.21 64.35 - 12.03 -	Dec 31, 2019 Level 1 Level 2 Level 3 Total 0.21 - - 0.21 - 0.25 - 0.25 - 64.10 - 64.10 0.21 64.35 - 64.56	The Company Dec 31, 2019 Level 1 Level 2 Level 3 Total Level 1 0.21 - 0.25 - 0.25 64.10 - 64.10 - 0.21 64.35 - 64.56 6.34	The Company Dec 31, 2019 Dec 31 Level 1 Level 2 Level 3 Total Level 1 Level 1 Level 2 0.21 - 0.25 - 0.25 - 0.25 - 7.63 - 64.10 - 64.10 - 64.56 6.34 1,940.38	The Company The Company Dec 31, 2019 Level 1 Level 2 Level 3 Total Level 1 Level 2 Level 3 0.21 - - 0.21 6.34 - - - 0.25 - 0.25 - 7.63 - - 64.10 - 64.10 - 1,932.75 - 0.21 64.35 - 64.56 6.34 1,940.38 -	

			Unit: Mi	lion US Dollar				nit: Million Baht
	The Company				The Company			
	Dec 31, 2018				Dec 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Financial assets								
Short-term investments								
- Debt securities (with embedded derivatives)	-	49.87	-	49.87	-	1,618.26	-	1,618.26
Investments in trading securities	70.54	-	-	70.54	2,289.08	-	-	2,289.08
Investments in available-for-sale securities	10.45	-	-	10.45	339.10	-	-	339.10
Financial derivatives								
- Forward foreign exchange	-	2.74	-	2.74	-	88.75	-	88.75
- Cross currency and interest rate swap	-	25.00	-	25.00	-	811.32	-	811.32
Total assets	80.99	77.61		158.60	2,628.18	2,518.33	-	5,146.51
Financial liabilities		_					_	
Deferred considerations acquired through								
business acquisition	-	-	465.97	465.97	-	-	15,120.70	15,120.70
Financial derivative								
- Forward foreign exchange	-	2.81	-	2.81	-	91.08	-	91.08
- Cross currency and interest rate swap	-	6.81	-	6.81	-	220.95	-	220.95
Total liabilities	-	9.62	465.97	475.59	-	312.03	15,120.70	15,432.73

- Level 1: Fair value based on quoted prices in an active market for identical assets and liabilities.
- Level 2: Fair value based on inputs other than quoted prices in Level 1 or based on information from reliable source that can be used in the computation of fair value of assets and liabilities.
- Level 3: Fair value based on internal valuation model or that are not based on observable market data (that is, unobservable inputs).

35.2 Valuation Techniques Used to Derive Level 2 Fair Values

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

- The fair value of debt securities (with embedded derivatives) is calculated based on debt securities value with reference to the performance return of other debt security funds.
- 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 foreign exchange contracts is calculated using forward foreign exchange rates that are quoted in an active market.
- 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 discount factors do not significantly impact the level 2 fair value of derivative instruments.

35.3 Valuation Techniques Used to Derive Level 3 Fair values

Valuation techniques and assumptions used to derive level 3 fair values are as follows:

- Deferred considerations acquired through business acquisition is disclosed in Note 6 Business
 Accquisition in Murphy oil Corporation in Malaysia.
- Contingent consideration from participating interest acquisition in joint venture is disclosed in Note
 19.6 Significant transactions during the year.

35.4 The details of fair value of long-term liabilities calculated by using the discounted cash flow based on a discounted rate of borrowing with similar terms are as follows:

Unsecured and unsubordinated debentures – Baht

Unsecured and unsubordinated debentures – US Dollar

Unit: Million US Dolla								
Consolidated								
December 31, 2019								
Book Value	Fair Value							
874.71	961.32							
1,830.04	2,049.80							

Unsecured and unsubordinated debentures – Baht

Unsecured and unsubordinated debentures – US Dollar

Unit: Million Ba							
Consolidated							
December 31, 2019							
Book Value	Fair Value						
26,375.98	28,987.64						
55.182.93	61.809.76						

Unsecured and unsubordinated debentures – Baht

Unit: Million US Doll								
The Company								
December 31, 2019								
Book Value	Fair Value							
377.76	456.74							

	Unit: Million Baht
The Co	mpany
December	r 31, 2019
Book Value	Fair Value
11,391.04	13,772.42

Unsecured and unsubordinated debentures - Baht

The fair value of Baht debentures 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 US Dollar debentures 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.

Other non-current liabilities

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

Consolidated	The Company						
Financial assets	Financial assets						
 Cash and cash equivalents 	Cash and cash equivalents						
Short-term investments	Short-term investments						
 Account receivable – parent company 	Account receivable – parent company						
Trade and other accounts receivables	Trade and other accounts receivables						
Other current assets	Short-term loans to related parties						
 Long-term loans to related parties 	Other current assets						
Other non-current assets	Long-term loans to related parties						
	Other non-current assets						
Financial liabilities	Financial liabilities						
 Trade accounts payable and working 	Trade accounts payable and working capital						
capital to co-venturers	to co-venturers						
 Accrued expenses and interests payable 	 Accrued expenses and interests payable 						
Other current liabilities	Other current liabilities						
 Long-term loans 	Long-term loans						

Other non-current liabilities

36. Subordinated capital debentures

In 2019, the Group redeemed the to US Dollar subordinated capital debentures as follows:

		Unit : Mil		Unit	: Million Baht	
	Before	(Redeemed/	After	Before	(Redeemed/	After
	redemption	repurchased)	redemption	redemption	repurchased)	redemption
PTTEP						
Issuance and offering value	145.31	(145.31)	-			
Net value from finance cost	144.66	(144.66) ¹	-	4,679.78	$(4,679.78)^1$	-
PTTEP TC						
Issuance and offering value	354.69	(354.69)	-			
Net value from finance cost	354.16	(354.16) ¹	-	11,808.63	(11,808.63) ¹	-
PTTEP TC						
Issuance and offering value	500.00	(469.15)	30.85			
Net value from finance cost	499.29	$(468.43)^2$	30.86	16,761.35	$(15,725.31)^2$	1,036.04
Total						
Issuance and offering value	1,000.00	(969.15)	30.85			
Net value from finance cost	998.11	(967.25)	30.86	33,249.76	(32,213.72)	1,036.04

¹The redemption of subordinated capital debentures is the first exercise of the redemption rights stipulated in the offering memorandum at the par value.

² PTTEP TC repurchased the subordinated capital debentures in accordance with specified conditions and procedures.

37. Financial Assets and Financial Liabilities

Financial assets and financial liabilities are classified as follows:

		Unit: Million US Dollar								
		Consolidated								
		[Dec 31, 2019					Dec 31, 2018		
	Fair value through statement of income	Derivative hedging instruments	Loans and accounts receivable	Available- for-sale financial assets	Held-to- maturity financial assets	Fair value through statement of income	Derivative hedging instruments	Loans and accounts receivable	Available- for-sale financial assets	Held-to- maturity financial assets
Financial assets										
Cash and cash equivalents	_	-	2,822.90	-	-	-	-	3,180.10	-	-
Short-term investments	-	-	-	-	200.00	-	-	-	-	820.53
Investments in trading securities	213.70	-	-	-	-	70.55	-	-	-	-
Investments in available-for-sale securities	-	-	-	0.52	-	-	-	-	11.01	-
Account receivable - parent company	-	-	534.84	-	-	-	-	637.13	-	-
Trade and other accounts receivable	-	-	380.43	-	-	-	-	558.64	-	-
Other current assets	-	-	106.71	-	-	-	-	73.24	-	-
Long-term loans to related parties	-	-	86.06	-	-	-	-	95.50	-	-
Financial derivative assets	12.34	83.68	-	-	-	41.86	25.00	-	-	-
Other non-current assets	44.88	-	71.49	-	-	-	-	89.04	-	-
Total financial assets	270.92	83.68	4,002.43	0.52	200.00	112.41	25.00	4,633.65	11.01	820.53

Financial liabilities
Trade accounts payable and working capital to co-venturers
Current portion of long-term debts
Accrued expenses and interest payable
Deferred considerations acquired through business acquisition
Other current liabilities
Financial derivative liabilities
Debentures and long-term loans
Other non-current liabilities

Total financial liabilities

				L	Jnit: Million US Dollar			
		Consc	olidated					
	Dec 31, 2019		Dec 31, 2018					
Fair value	Derivative	Amortized cost	Fair value	Derivative	Amortized cost			
through	hedging		through	hedging				
statement of	instruments		statement of	instruments				
income			income					
	·							
-	-	119.50	-	-	120.23			
-	-	18.28	-	-	407.01			
-	-	769.42	-	-	612.70			
-	-	-	-	-	465.97			
-	-	66.03	-	-	18.99			
15.21	-	-	3.88	6.81	-			
-	-	3,423.42	-	-	1,538.75			
-	-	59.38			0.13			
15.21		4,456.03	3.88	6.81	3,163.78			

										Unit: Million Baht
		Consolidated								
			Dec 31, 2019					Dec 31, 2018		
	Fair value	Derivative	Loans and	Available-	Held-to-	Fair value	Derivative	Loans and	Available-	Held-to-
	through	hedging	accounts	for-sale	maturity	through	hedging	accounts	for-sale	maturity
	statement of	instruments	receivable	financial	financial	statement of	instruments	receivable	financial	financial
	income			assets	assets	income			assets	assets
Financial assets										
Cash and cash equivalents	-	-	85,121.64	-	-	-	-	103,193.56	-	-
Short-term investments	-	-	-	-	6,030.80	-	-	-	-	26,626.06
Investments in trading securities	6,444.00	-	-	-	-	2,289.34	-	-	-	-
Investments in available-for-sale securities	-	-	-	15.81	-	-	-	-	357.17	-
Account receivable - parent company	-	-	16,127.47	-	-	-	-	20,674.75	-	-
Trade and other accounts receivable	-	-	11,471.38	-	-	-	-	18,127.65	-	-
Other current assets	-	-	3,218.05	-	-	-	-	2,376.55	-	-
Long-term loans to related parties	-	-	2,594.92	-	-	-	-	3,098.81	-	-
Financial derivative assets	372.16	2,523.21	-	-	-	1,358.25	811.31	-	-	-
Other non-current assets	1,353.50	-	2,155.71	-	-	-	-	2,889.17	-	-
Total financial assets	8,169.66	2,523.21	120,689.17	15.81	6,030.80	3,647.59	811.31	150,360.49	357.17	26,626.06

Financial liabilities

Trade accounts payable and working capital to co-venturers

Current portion of long-term debts

Accrued expenses and interest payable

Deferred considerations acquired through business acquisition

Other current liabilities

Financial derivative liabilities

Debentures and long-term loans

Other non-current liabilities

Total financial liabilities

					Unit: Million Baht
		Consc	lidated		
	Dec 31, 2019			Dec 31, 2018	
Fair value	Derivative	Amortized cost	Fair value	Derivative	Amortized cost
through	hedging		through	hedging	
statement of	instruments		statement of	instruments	
income			income		
-	-	3,603.54	-	-	901.58
-	-	551.26	-	-	207.55
-	-	23,201.11	-	-	392.09
-	-	-	-	-	15,120.70
-	-	1,991.13	-	-	616.17
458.76	-	-	125.79	220.95	-
-	-	103,229.82	-	-	49,932.25
-		1,790.52			4.11
458.76		134,367.38	125.79	220.95	102,674.45

									Unit: N	Million US Dollar
		The Company								
		С	ec 31, 2019					Dec 31, 2018		
	Fair value	Derivative	Loans and	Available-	Held-to-	Fair value	Derivative	Loans and	Available-	Held-to-
	through	hedging	accounts	for-sale	maturity	through	hedging	accounts	for-sale	maturity
	statement of	instruments	receivable	financial	financial	statement of	instruments	receivable	financial	financial
	income			assets	assets	income			assets	assets
Financial assets										
Cash and cash equivalents	-	-	715.77	-	-	-	-	462.09	-	-
Short-term investments	-	-	-	-	200.00	-	-	-	-	462.70
Investments in trading securities	0.21	-	-	-	-	70.54	-	-	-	-
Investments in available-for-sale securities	-	-	-	-	-	-	-	-	10.45	-
Account receivable - parent company	-	-	353.32	-	-	-	-	399.09	-	-
Trade and other accounts receivable	-	-	73.95	-	-	-	-	435.61	-	-
Short-term loans to related parties	-	-	362.00	-	-	-	-	1,175.45	-	-
Other current assets	-	-	325.53	-	-	-	-	71.29	-	-
Long-term loans to related parties	-	-	6,410.31	-	-	-	-	5,418.53	-	-
Financial derivative assets	0.25	64.10	-	-	-	2.74	25.00	-	-	-
Other non-current assets	-	-	4.98	-	-	-	-	4.62	-	-
Total financial assets	0.46	64.10	8,245.86		200.00	73.28	25.00	7,966.68	10.45	462.70

Financial liabilities
Trade accounts payable and working capital to co-venturers
Current portion of long-term debts
Accrued expenses and interest payable
Deferred considerations acquired through business acquisition
Other current liabilities
Financial derivative liabilities
Debentures and long-term loans
Total financial liabilities

Unit: Million US											
	The Company										
	Dec 31, 2019			Dec 31, 2018							
Fair value	Derivative	Amortized cost	Fair value	Derivative	Amortized cost						
through	hedging		through	hedging							
statement of	instruments		statement of	instruments							
income			income								
-	-	24.62	-	-	31.64						
-	-	0.30	-	-	407.01						
-	-	288.88	-	-	293.21						
-	-	-	-	-	465.97						
-	-	3.10	-	-	5.73						
12.03	-	-	2.81	6.81	-						
-	-	378.52	-		351.99						
12.03		695.42	2.81	6.81	1,555.55						

	Unit: I									nit: Million Baht
		The Company								
			Dec 31, 2019				Γ	Dec 31, 2018		
	Fair value	Derivative	Loans and	Available-	Held-to-	Fair value	Derivative	Loans and	Available-	Held-to-
	through	hedging	accounts	for-sale	maturity	through	hedging	accounts	for-sale	maturity
	statement of	instruments	receivable	financial	financial	statement of	instruments	receivable	financial	financial
	income			assets	assets	income			assets	assets
Financial assets										
Cash and cash equivalents	-	-	21,583.27	-	-	-	-	14,994.85	-	-
Short-term investments	-	-	-	-	6,030.80	-	-	-	-	15,014.54
Investments in trading securities	6.34	-	-	-	-	2,289.08	-	-	-	-
Investments in available-for- sale securities	-	-	-	-	-	-	-	-	339.10	-
Account receivable - parent company	-	-	10,653.92	-	-	-	-	12,950.47	-	-
Trade and other accounts receivable	-	-	2,229.70	-	-	-	-	14,135.53	-	-
Short-term loans to related parties	-	-	10,915.76	-	-	-	-	38,143.18	-	-
Other current assets	-	-	9,815.85	-	-	-	-	2,313.30	-	-
Long-term loans to related parties	-	-	193,296.37	-	-	-	-	175,830.35	-	-
Financial derivative assets	7.63	1,932.75	-	-	-	88.75	811.31	-	-	-
Other non-current assets	-	-	150.07	-	-	-	-	149.86	-	-
Total financial assets	13.97	1,932.75	248,644.94		6,030.80	2,377.83	811.31	258,517.54	339.10	15,014.54

Financial liabilities

Trade accounts payable and working capital to co-venturers

Current portion of long-term debts

Accrued expenses and interest payable

Deferred considerations acquired through business acquisition

Other current liabilities

Financial derivative liabilities

Debentures and long-term loans

Total financial liabilities

	Unit: Million Baht										
	The Company										
		Dec 31, 2019			Dec 31, 2018						
	Fair value	Derivative	Amortized cost	Fair value	Derivative	Amortized cost					
	through	hedging		through	hedging						
	statement of	instruments		statement of	instruments						
	income			income							
	-	-	742.39	-	-	1,026.66					
	-	-	9.00	-	-	13,207.55					
	-	-	8,711.15	-	-	9,514.72					
	-	-	-	-	-	15,120.70					
	-	-	93.36	-	-	185.92					
	362.65	-	-	91.08	220.95	-					
	-	-	11,414.02			11,422.08					
	362.65		20,969.92	91.08	220.95	50,477.63					

38. Share Capital

As at December 31, 2019, the Company's registered capital consists of 3,969.98 million ordinary shares at Baht 1 per share, with a total of Baht 3,969.98 million. The details of the change in the issued and fully paid-up ordinary shares are as follows:

	Unit: Million Shares
Ordinary shares issued and fully paid-up	
Balance as at January 1, 2019	3,969.98
New ordinary shares issued during the year	-
Balance as at December 31, 2019	3,969.98
	Unit: Million Shares
Ordinary shares issued and fully paid-up	
Balance as at January 1, 2018	3,969.98
New ordinary shares issued during the year	-
Balance as at December 31, 2018	3,969.98

39. Legal Reserve

Balance as at January 1

Appropriation during the year

Balance as at December 31

Unit	t: Million US Dollar		Unit: Million Baht		
Conso	lidated	Consolidated			
2019	2018	2019	2018		
15.05	15.05	397.00	397.00		
-		-			
15.05	15.05	397.00	397.00		

Balance as at January 1
Appropriation during the year
Balance as at December 31

U	nit: Million US Dollar	Unit: Million Baht			
The C	Company	The Company			
2019	2018	2019	2018		
15.05	15.05	397.00	397.00		
-		-			
15.05	15.05	397.00	397.00		

Under the Public Limited Company Act., B.E. 2535, the Company is required to set aside a legal reserve at least 5 % of its net profit until the reserve is not less than 10% percent of the registered capital. The legal reserve is non-distributable by the Company. The Company has fully set aside the legal reserve as required by the law.

40. Expenses by Nature

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

	Unit:	Million US Dollar	Unit: Million Baht			
	Consc	olidated	Consolidated			
	2019	2018	2019	2018		
Salary, wages and employees' benefits	281.55	195.32	8,756.21	6,311.70		
Repair and maintenance	152.24	143.90	4,724.80	4,960.36		
Exploration well and projects write-off	76.76	0.67	2,368.68	21.47		
Geological and geophysical expenses	50.57	29.28	1,569.38	945.52		
Logistic	120.51	128.01	3,740.07	4,134.15		

	Unit: N	lillion US Dollar	Unit: Million Baht			
	The Con	npany	The Company			
	2019	2018	2019	2018		
Salary, wages and employees' benefits	271.30	146.76	8,425.81	4,742.62		
Repair and maintenance	69.97	67.80	2,171.57	2,189.64		
Geological and geophysical expenses	0.25	-	7.70	-		
Logistic	50.92	53.23	1,580.17	1,719.00		

41. Earnings per Share

Basic earnings per share for the years are calculated as follows:

		Unit: US Dollar	Unit: Baht	
	Cons	solidated		
	2019	2018	2019	2018
Profit attributable to shareholders (Unit: Million)	1,569.06	1,119.61	48,802.54	36,206.29
<u>Less</u> : Interest expenses for subordinated				
capital debentures (Unit: Million)	(53.61)	(57.70)	(1,662.97)	(1,876.71)
Redemption of subordinated capital				
debentures (Unit: Million)	(23.59)	-	(716.29)	-
Income tax for subordinated capital				
debentures (Unit: Million)	3.07	4.75	94.44	154.78
Profit used to determine basic earnings per				
share (Unit: Million)	1,494.93	1,066.66	46,517.72	34,484.36
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	0.38	0.27	11.72	8.69

.....

		Unit: Baht			
	The (Company	The Company		
	2019	2018	2019	2018	
Profit attributable to shareholders (Unit: Million)	1,135.72	811.52	35,275.10	26,275.64	
Less: Interest expenses for subordinated					
capital debentures (Unit: Million)	(13.63)	(17.40)	(422.13)	(564.10)	
Redemption of subordinated capital					
debentures (Unit: Million)	(0.65)	-	(20.99)	-	
Income tax for subordinated capital					
debentures (Unit: Million)	2.94	3.10	90.91	100.76	
Profit used to determine basic earnings per					
share (Unit: Million)	1,124.38	797.22	34,922.89	25,812.30	
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	0.28	0.20	8.80	6.50	

The Group has no potential dilutive ordinary shares in issue during the year, so no diluted earnings per share is presented.

42. Segment Information

Unit: Million US Dollar

	Consolidated financial statements for the year ended December 31, 2019										
Itama	Exploration and production					Midstream	Pipeline		Inter-	Group's	
Items	Thailand	Other Southeast	Australia	America	Africa	Others	Middle East	Southeast	Others	company	Total
		Asia						Asia		elimination	business
Revenues - Third parties	275.73	721.58	-	0.41	-	52.95	11.55	116.40	-	-	1,178.62
- Related parties	4,280.74	636.66	-	-	66.79	-	-	320.61	-	(320.61)	4,984.19
Other revenues - Third parties	19.57	3.91	4.25	-	-	-	-	0.73	122.74	(110.06)	41.14
Interest income	0.82	2.38	0.07	0.01	11.98	0.07	-	0.22	0.11	(0.11)	15.55
Total Revenues	4,576.86	1,364.53	4.32	0.42	78.77	53.02	11.55	437.96	122.85	(430.78)	6,219.50
Operating expenses	486.49	536.00	-	0.35	12.99	10.95	6.30	21.32	10.90	(334.62)	750.68
Exploration expenses											
- Write-off of exploration assets	-	74.99	-	1.47	-	-	-	-	-	-	76.46
- Geological and geophysical	1.61	29.20	2.80	3.70	0.07	14.26	-	-	-	-	51.64
Administrative expenses	43.09	39.68	12.75	4.74	23.79	7.29	1.64	6.22	91.93	(97.58)	133.55
Petroleum royalties	527.57	18.76	-	-	-	-	-	-	-	-	546.33
Depreciation, depletion and amortization	1,511.06	423.09	0.09	0.12	29.94	13.47	1.02	30.78	2.25	(3.61)	2,008.21
(Gain) loss on foreign exchange	(39.64)	(31.26)	1.08	0.28	0.02	0.04		-	(0.58)	-	(70.06)
Finance costs	104.71	37.27	-	-	0.72	1.21	0.15	0.63	-	(18.20)	126.49
Share of (gain) loss of associates											
and joint ventures	-	-	2.16	-	-	-	-	-	(14.51)	-	(12.35)
Total Expenses	2,634.89	1,127.73	18.88	10.66	67.53	47.22	9.11	58.95	89.99	(454.01)	3,610.95
Segment profit (loss)	1,941.97	236.80	(14.56)	(10.24)	11.24	5.80	2.44	379.01	32.86	23.23	2,608.55
Depreciation - general											(17.84)
Administrative expenses - general											(250.23)
Operating profit											2,340.48
Other income, net											14.25
Interest income											70.68
Finance costs											(108.48)
Gain on foreign exchange											38.53
Loss on financial derivatives											(109.40)
Profit before income taxes											2,246.06
Income tax - Project	(706.09)	(104.73)	-	0.09	2.97	(21.29)	(1.43)	(87.36)	(4.94)		(922.78)
- Group											245.78
Net Profit (Loss)	1,235.88	132.07	(14.56)	(10.15)	14.21	(15.49)	1.01	291.65	27.92		1,569.06

				Canadidata	ad financial at	otomonto co o	t December 31	2010		Unit: M	llion US Dollar
		Family 1								Inter	One un's
Items	Thailand	Other Southeast	oration and p Australia	America	Africa	Others	Midstream Middle East	Pipeline Southeast	Others	Inter- company	Group's Total
	manand	Asia	Australia	America	Airica			Asia	Others	elimination	business
Assets											
Segment assets	6,194.18	5,689.28	324.44	331.12	2,812.62	983.95	60.13	668.73	33.02		17,097.47
Investments under equity method	-	-	4.97	-	-	79.89	-	-	368.14		453.00
Unallocated assets											4,651.03
Total assets											22,201.50
Liabilities										'	
Segment liabilities	4,407.02	1,315.80	3.71	5.23	74.19	425.91	9.90	136.49	35.62		6,413.87
Unallocated liabilities											3,946.46
Total liabilities											10,360.33
Capital Expenditures	930.29	3,037.04	19.56	10.49	132.29	804.87	48.95	2.44	29.38		5,015.31

Unit: Million Baht

			Со	nsolidated fir	nancial stater	ments for the	year ended De	cember 31, 201	9	Offin	t: Million Baht
lance o		Exp	loration and	production			Midstream	Pipeline		Inter-	Group's
Items	Thailand	Other Southeast	Australia	America	Africa	Others	Middle East	Southeast	Others	company	Total
		Asia						Asia		elimination	business
Revenues - Third parties	8,562.87	22,186.01	-	12.27	-	1,600.74	349.29	3,618.48	-	-	36,329.66
- Related parties	132,856.46	19,790.50	-	-	2,076.11	-	-	9,963.64	-	(9,963.64)	154,723.07
Other revenues - Third parties	605.13	120.86	130.10	-	-	0.09	-	22.85	3,804.18	(3,411.47)	1,271.74
Interest income	25.56	73.13	2.40	0.37	371.37	2.11	-	6.72	3.48	(3.47)	481.67
Total Revenues	142,050.02	42,170.50	132.50	12.64	2,447.48	1,602.94	349.29	13,611.69	3,807.66	(13,378.58)	192,806.14
Operating expenses	15,065.24	16,571.53	-	10.65	405.04	331.13	190.57	662.33	336.50	(10,398.29)	23,174.70
Exploration expenses											
- Write-off of exploration assets	(0.02)	2,313.83	-	45.94	-	-	-	-	-	-	2,359.75
- Geological and geophysical	49.60	900.23	85.74	114.34	2.27	438.81		-	-	-	1,590.99
Administrative expenses	1,336.57	1,226.96	396.85	147.89	728.52	222.04	49.45	192.89	2,850.59	(3,024.51)	4,127.25
Petroleum royalties	16,374.66	570.07	-	-	-	-	-	-	-	-	16,944.73
Depreciation, depletion and amortization	46,901.78	13,066.00	2.99	3.62	930.91	407.13	30.82	955.50	69.81	(111.56)	62,257.00
(Gain) loss on foreign exchange	(1,216.95)	(955.13)	33.51	8.62	0.62	1.15	0.06	(0.03)	(17.95)	-	(2,146.10)
Finance costs	3,254.80	1,153.56	-	(0.01)	22.51	36.56	4.43	19.58	-	(566.54)	3,924.89
Share of (gain) loss of associates and											
joint ventures	-	-	66.05	-	-	(0.01)	-	-	(446.46)	-	(380.42)
Total Expenses	81,765.68	34,847.05	585.14	331.05	2,089.87	1,436.81	275.33	1,830.27	2,792.49	(14,100.90)	111,852.79
Segment profit (loss)	60,284.34	7,323.45	(452.64)	(318.41)	357.61	166.13	73.96	11,781.42	1,015.17	722.32	80,953.35
Depreciation - general											(553.84)
Administrative expenses - general											(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											1,218.06
Loss on financial derivatives											(3,405.79)
Profit before income taxes											69,754.24
Income tax - Project	(21,909.79)	(3,240.89)	-	2.67	92.46	(643.63)	(43.23)	(2,711.47)	(153.90)		(28,607.78)
- Group	, , ,	, , , , ,				, -,	, , ,	,	, -,		7,656.08
Net Profit (Loss)	38,374.55	4,082.56	(452.64)	(315.74)	450.07	(477.50)	30.73	9,069.95	861.27		48,802.54

										Ur	nit: Million Baht
		Consolidated financial statements as at December 31, 2019									
		Exploration and production						Pipeline		Inter-	Group's
Items	Thailand	Other	Australia	America	Africa	Others	Miiddle East	Southeast	Others	company	Total
		Southeast Asia						Asia		elimination	business
Assets											
Segment assets	186,779.22	171,554.53	9,783.19	9,984.71	84,811.69	29,669.96	1,813.20	20,164.91	995.59		515,557.00
Investments under equity method	-	-	149.90	-	-	2,408.86	-	-	11,100.89		13,659.65
Unallocated assets											140,247.36
Total assets											669,464.01
Liabilities											
Segment liabilities	132,889.12	39,676.75	112.01	157.60	2,237.25	12,842.77	298.64	4,115.60	1,074.16		193,403.90
Unallocated liabilities											119,001.39
Total liabilities											312,405.29
Capital Expenditures	28,871.66	93,748.08	606.98	321.12	4,105.72	24,324.07	1,476.78	75.62	911.45		154,441.48

Unit: Million US Dollar

		(Consolidated fir	nancial stateme	ents for the ye	ar ended Decembe	er 31, 2018		
Items		Exploration	on and production	on		Pipeline		Inter-	Group's
licilis	Thailand	Other Southeast	Australia	America	Africa	Southeast	Others	company	Total
		Asia				Asia		elimination	business
Revenues - Third parties	303.65	357.68	-	-	-	107.56	-	-	768.89
- Related parties	3,745.36	596.39	143.80	-	55.93	288.81	-	(288.81)	4,541.48
Other revenues - Third parties	20.77	1.89	0.76	-	-	0.77	109.16	(95.07)	38.28
Interest income	0.69	0.37	0.23	-	-	0.12	0.06	(0.06)	1.41
Total Revenues	4,070.47	956.33	144.79	-	55.93	397.26	109.22	(383.94)	5,350.06
Operating expenses	435.98	392.63	70.17	-	13.76	20.43	7.61	(295.50)	645.08
Exploration expenses									
- Write-off of exploration assets	0.60	(80.0)	-	0.15	-	-	-	-	0.67
- Geological and geophysical	1.60	9.01	1.34	21.20	11.86	-	-	-	45.01
Administrative expenses	34.99	38.32	22.00	4.27	7.08	4.33	80.44	(85.25)	106.18
Petroleum royalties	469.66	-	-	-	-	-	-	-	469.66
Depreciation, depletion and amortization	1,371.23	339.72	62.82	0.01	25.98	30.62	2.31	(2.34)	1,830.35
(Gain) loss on foreign exchange	7.00	3.36	0.77	1.17	(0.25)	0.26	(0.72)	-	11.59
Other expenses	_	-	80.80	-	-	-	-	(23.03)	57.77
Finance costs	103.60	37.63	3.34	-	0.54	3.02	-	(38.45)	109.68
Share of gain of associates and joint ventures	-	-	(0.10)	_	-	-	(7.83)	-	(7.93)
Total Expenses	2,424.66	820.59	241.14	26.80	58.97	58.66	81.81	(444.57)	3,268.06
Segment profit (loss)	1,645.81	135.74	(96.35)	(26.80)	(3.04)	338.60	27.41	60.63	2,082.00
Depreciation - general									(18.16)
Administrative expenses - general									(184.05)
Operating profit									1,879.79
Other income, net									12.50
Interest income									81.94
Finance costs									(128.89)
Loss on foreign exchange									(7.04)
Gain on financial derivatives									13.97
Profit before income taxes								Ţ	1,852.27
Income tax - Project	(572.77)	(76.96)	(54.90)	-	2.85	(108.38)	(3.83)		(813.99)
- Group		. /	. ,			, ,	` ′		81.33
Net Profit (Loss)	1,073.04	58.78	(151.25)	(26.80)	(0.19)	230.22	23.58		1,119.61

								Ur	nit: Million US Dollar
			Con	solidated financ	cial statement a	s at December 31,	2018		
Items		Explorat	tion and product	ion		Pipeline		Inter-	Group's
	Thailand	Other Southeast	Australia	America	Africa	Southeast	Others	company	Total
		Asia				Asia		elimination	business
Assets									
Segment assets	7,011.03	2,529.36	391.64	319.47	2,597.20	706.06	34.82		13,589.58
Investments under equity method	-	-	7.14	-	-	-	230.07		237.21
Unallocated assets									5,657.33
Total assets									19,484.12
Liabilities									
Segment liabilities	4,500.68	332.93	38.18	4.09	42.34	118.44	29.42		5,066.08
Unallocated liabilities									2,412.64
Total liabilities									7,478.72
Capital Expenditures	2,154.77	274.07	14.03	27.01	49.67	0.68	13.32		2,533.55

Unit: Million Baht

		C	onsolidated fir	nancial stateme	ents for the yea	ar ended Decemb	er 31, 2018		
Itama		Exploration	on and production	on		Pipeline		Inter-	Group's
Items	Thailand	Other Southeast	Australia	America	Africa	Southeast	Others	company	Total
		Asia				Asia		elimination	business
Revenues - Third parties	9,814.29	11,552.96	-	-	-	3,481.65	-	-	24,848.90
- Related parties	121,250.42	19,286.71	4,619.92	-	1,803.20	9,337.87	-	(9,337.87)	146,960.25
Other revenues - Third parties	676.95	59.65	24.79	-	0.04	24.85	3,528.96	(3,071.66)	1,243.58
Interest income	22.29	11.98	7.41	0.10	-	4.04	2.07	(2.07)	45.82
Total Revenues	131,763.95	30,911.30	4,652.12	0.10	1,803.24	12,848.41	3,531.03	(12,411.60)	173,098.55
Operating expenses	14,107.19	12,690.18	2,259.15	-	443.94	659.57	247.66	(9,552.26)	20,855.43
Exploration expenses									
- Write-off of exploration assets	19.16	(2.73)	-	5.04	-	-	-	-	21.47
- Geological and geophysical	50.14	292.07	43.45	702.49	371.44	-	-	-	1,459.59
Administrative expenses	1,130.02	1,236.73	714.38	138.54	228.37	140.14	2,599.64	(2,753.28)	3,434.54
Petroleum royalties	15,204.94	-	-	-	-	_	-	-	15,204.94
Depreciation, depletion and amortization	44,409.76	10,971.34	2,015.59	0.35	837.13	989.57	74.83	(76.29)	59,222.28
(Gain) loss on foreign exchange	249.00	111.69	24.84	35.52	(7.88)	8.25	(22.87)	-	398.55
Other expenses	_	-	2,637.60	-	-	-	-	(751.37)	1,886.23
Finance costs	3,360.58	1,216.83	107.21	-	17.58	96.08	0.01	(1,241.83)	3,556.46
Share of (gain) loss of associates and joint ventures	_	_	(3.24)	_	-	_	(253.01)	-	(256.25)
Total Expenses	78,530.79	26,516.11	7,798.98	881.94	1,890.58	1,893.61	2,646.26	(14,375.03)	105,783.24
Segment profit (loss)	53,233.16	4,395.19	(3,146.86)	(881.84)	(87.34)	10,954.80	884.77	1,963.43	67,315.31
Depreciation - general									(586.73)
Administrative expenses - general									(5,970.02)
Operating profit									60,758.56
Other income, net									403.53
Interest income									2.645.53
Finance costs									(4,150.66)
Loss on foreign exchange Gain on financial derivatives									(225.68) 539.30
Profit before income taxes									59,970.58
Income tax - Project	(10 522 50)	(0.400.40)	(1 700 70)		00.40	(2 522 25)	(100 EO)		
- Group	(18,532.58)	(2,483.43)	(1,792.70)	-	89.48	(3,532.25)	(123.59)		(26,375.07) 2,610.78
Net Profit (Loss)	34,700.58	1,911.76	(4,939.56)	(881.84)	2.14	7,422.55	761.18		36,206.29

										Unit: Million Baht
				Cons	solidated financ	ial statements a	as at December 31,	2018		
	Items			ation and product	tion		Pipeline		Inter-	Group's
		Thailand	Other Southeast	Australia	America	Africa	Southeast	Others	company	Total
			Asia				Asia		elimination	business
1	Assets									
3	Segment assets	227,506.86	82,077.26	12,708.72	10,366.86	84,278.68	22,911.44	1,129.75		440,979.57
1	Investments under equity method	-	-	231.54	-	-	-	7,465.84		7,697.38
l	Unallocated assets									183,579.52
٦	Total assets									632,256.47
L	Liabilities									
5	Segment liabilities	146,046.31	10,803.65	1,238.76	132.70	1,373.98	3,843.33	954.78		164,393.51
l	Unallocated liabilities									78,289.76
7	Total liabilities									242,683.27
(Capital Expenditures	70,416.42	8,851.08	452.98	872.40	1,604.19	22.05	430.00		82,649.12

The Group is organized 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.
- Overseas pipelines: The Group has investments with its joint venture partners to operate pipelines to transport natural gas from the exploration and production projects where the Group has working interests i.e., Yadana, Yetagun and Zawtika projects.
- Midstream oil and gas: The Group and partners jointly operate in gas processing business which processes natural gas into other petroleum products.
- The Group's other operations consist mainly of investments in projects strategically connected to the energy business and other operations. These do not constitute a separately reportable segment.

43. Risk Management

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

Market Risk

Market risk is the situation whereby changes in commodity prices, interest rates, and foreign exchange rates may positively or adversely impact the Group's revenues, cash flows, assets, and liabilities.

The Group uses various financial instruments for the purpose of managing the risk exposure on the fluctuation in the commodity prices, interest rates and foreign exchange rates.

Price Risk

The Group's product prices vary with those of world oil prices, which are subject to various factors beyond its control, for instance, market demand and supply, political and economic stability of various countries, OPEC's production policy, oil reserves in each country and the seasonal changes of the global climate.

Fluctuations in world oil prices directly affect the prices of the Group's crude oil and condensate. However, because of built-in natural gas pricing mechanisms found in the Gas Sale Agreement (GSA) which cushion natural gas prices from oil prices volatility (Natural Hedge), when the reference oil prices change, the typical prices of natural gas, which is the main product of the Groups, do change in the same direction. Most of the Group's contractual natural gas prices are adjusted every 6 or 12 months depending on the gas price formula of each project, the natural gas price will move correspondingly to a certain degree compared to the prices of crude oil and condensate.

In 2019, average Dubai crude oil price decreased from prior year while the crude oil price has continued to increase from the beginning of the year and rised to its highest level in April at US Dollar 74 per barrel



as a result of positive factors from the geopolitical tensions in the Middle East which cause the reduction of crude oil supply. However, according to the concern on global economic and the unresolved trade war between the United States of America and China, this resulted in a decrease and maintain of the oil price in the second half of 2019 at the level of approximately US Dollar 60 per barrel. Meanwhile, OPEC and other non-OPEC countries attempted to support oil price by continuously reduced crude oil production volume. According to the meeting in December 2019, major oil produces have a deal to cut down production by 0.5 million barrel per day from 1.2 million barrel per day, bringing the total curtailment of approximately 1.7 million barrel per day. The reduction will be extended to March 2020. The average Dubai crude oil price for the year is approximately US Dollar 63.5 per barrel.

The Group has managed the oil price risk by analyzing 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 December 31, 2019, the Group entered into oil price hedging derivatives for the year 2020 totaling 15.79 million barrels.

Inflation Rate Risk

The Group is exposed to the risk from changes in interest rate that will affect future cash flows and fair values of financial instruments. Some of the Group's debts are subject to floating interest rates, resulting in a higher interest expense if the market interest rates increase. In order to manage the interest rate risk, the Group has a policy to maintain a proper proportion between fixed interest rate debts and floating interest rate debts and to use the financial instruments, such as interest rate swap to swap from floating interest rate to fixed interest rate. The Group also considers costs, market conditions, and acceptable risk before entering into the financial instrument to prevent interest rate risk.

As at December 31, 2019, the Group has a proportion of float interest rate debt at 18% of total debt after entering into the interest rate swaps (in 2018, all debts were fixed interest rate debts after entering into the interest rate swaps). The weighted average interest rates of total debts was 4.41% per annum (in 2018, it was 5.32% per annum).

The changes in the Group's interest rates on borrowing as at January 1, 2020, if the floating interest rate on debt increased by 1% per annum, the profit before income taxes would decrease by approximately US Dollars 6.10 million (in 2019, no impact on the Group's profit before income taxes for the year 2019 since all debts are fixed interest rate debts after entering into the interest rate swaps). The calculation of the effect from the changes in the interest rate is based on the assumption that there is no changes in the principal amount, the debts portion, and all interest rates until December 31, 2020. However, the effect on the Group's profit before income taxes from the above analysis does not consider the effect from the changes in economic conditions, which may affect the increase or decrease of the interest rate.

Foreign Exchange Rate 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 is exposed to the exchange rate risks from transactions which are denominated in currencies that are not the Group's functional currency.

The Group is aware of the risks surrounding financial assets and liabilities denominated in foreign currencies. As a result, the Group has a policy of asset and liability management by which the structure and features of transactions regarding assets, liabilities and equity are aligned with each other. In addition, the Group has considered managing foreign exchange rate risk with financial derivatives together with the costs, consideration yields and risks arising in each interval.

The Group's profit before income taxes is sensitive to changes in foreign currency that impacts net monetary assets and liabilities denominated in currencies other than functional currency. If as at December 31, 2019 and 2018, the other currencies had fluctuated 10% against the functional currency, the possible changes to the Group's profit before income taxes are as follows:

	Unit: Million US Dollar
	Consolidated
	Exposure of asset and liability
Baht to US Dollar	position to the exchange rate
For the year ended December 31, 2019	
Profit before income taxes decrease	
(10% US Dollar appreciation)	(19)
Profit before income taxes increase	
(10% US Dollar depreciation)	19
For the year ended December 31, 2018	
Profit before income taxes increase	
(10% US Dollar appreciation)	8
Profit before income taxes decrease	
(10% US Dollar depreciation)	(8)

Credit Risk

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 risk-adjusted exposure and has diversified transactions to avoid concentration risks with individual bank together with the costs, consideration yields and risks arising in each interval. The Group's maximum exposure to credit risks is the fair value of financial assets.

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:

					Unit: Million US Dollar
		Over 1 year but not	Over 3 years but not		
	Within 1 year	exceeding 3 years	exceeding 5 years	Over 5 years	Total
Trade accounts payable and working capital to co-venturers	119.50	-	-	-	119.50
Accrued expenses	749.65	-	-	-	749.65
Other current liabilities	66.03	-	-	-	66.03
Deferred considerations acquired through business acquisition	-	5.79	1.31	-	7.10
Consideration paid for participating interest in joint venture	-	51.86	-	-	51.86
Loan from financial institutions with floating rate					
Principal	-	-	600.00	-	600.00
Interest paid *	17.31	35.65	35.69	-	88.65
Debentures with fixed interest rate					
Principal	-	1,197.45	-	1,518.06	2,715.51
Interest paid*	114.55	169.34	149.41	1,514.45	1,947.75
Cash outflow from foreign currency and interest rate swap **	31.30	535.70	35.36	428.53	1,030.89
Cash inflow from foreign currency and interest rate swap **	29.55	550.80	36.49	460.09	1,076.93
Cash outflow from forward foreign exchange **	1,494.63	-	-	-	1,494.63
Cash inflow from forward foreign exchange **	1,483.45	-	-	-	1,483.45

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.

⁻ 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 December 30, 2019 at Baht 30.154 per US Dollar.

^{*} Interest paid represents the interest payment due within year.

^{**}The Group enters into derivative contracts whose cash inflow and cash outflow are not qualified for the net settlement, therefore the Group separates cash inflow from cash receipt and cash outflow from cash payment for each type of derivative contract.

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 short-term credit facilities with commercial banks with the interest rate agreed in advance.

The outstanding principal amount and undrawn facilities are summarized below:

		Unit: Million US Dollar
	Credit limit	Undrawn amount
Short-term committed bank credit facility	265.30	265.30
Short-term uncommitted bank credit facility	480.33	480.33

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 December 30, 2019 at Baht 30.154 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 2019 and 2018, the Company's credit ratings as assigned by prominent credit rating agencies are as follows:

	20	19	20	18
	Foreign Domestic		Foreign	Domestic
	Currency	Currency	Currency	Currency
Rating Agency				
Moody's	Baa1	Baa1	Baa1	Baa1
Standard and Poor's	BBB+	BBB+	BBB+	BBB+
Fitch Ratings	BBB+	-	-	-
TRIS Rating (National Rating)	-	AAA	-	AAA

44. Dividends

On March 29, 2019, the Annual General Meeting of the Shareholders approved payment of a dividend for the year 2018 of Baht 5.00 per share. The Company made an interim dividend payment for the first half-year operations of 2018 at the rate of Baht 1.75 per share on August 24, 2018 and for the second half-year operations of 2018 at the rate of Baht 3.25 per share on April 11, 2019.

The Company estimated the dividend to its shareholders for the year 2019 at 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 August 23, 2019. The remaining dividend for the second half-year operations of 2019 at the rate of Baht 3.75 per share will be paid upon approval by the Annual General Meeting of the Shareholders.

45. Commitments and Contingent Liabilities

Commitment under operating leases – the Group as a lessee

The future minimum lease payments for the non-cancellable operating leases are as follows:

Within 1 year

Over 1 year but not exceeding 5 years

Over 5 years

Total

Un	nit: Million US Dollar		Unit: Million Baht			
Consc	olidated	Consolidated				
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018			
72.44	20.22	2,184.42	656.25			
81.49	41.00	2,456.70	1,330.37			
7.86	18.08	236.64	586.55			
161.79	79.30	4,877.76	2,573.17			

Within 1 year
Over 1 year but not exceeding 5 years
Over 5 years
Total

Un	it: Million US Dollar		Unit: Million Baht
The Co	ompany	The Co	ompany
Dec 31, 2019	Dec 31, 2018	Dec 31, 2019	Dec 31, 2018
5.14	7.23	154.95	234.50
5.28	1.71	156.98	55.75
1.22	-	36.64	
11.64	8.94	350.57	290.25

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Commitment from loan agreements

- The Company has a subordinated loan agreement with Energy Complex Company Limited (Energy Complex), with the loan limit of Baht 1,250 million. The agreement shall continue for 13 years and 6 months effective from April 2, 2009. The total value of loans provided to Energy Complex as at December 31, 2019 was US Dollar 19.24 million (Baht 580 million).
- Commitment from the guarantee of debentures and subordinated capital debentures of subsidiaries
 - The Company has commitment for the guarantee of unsecured and unsubordinated capital debenture of US Dollar 490 million and US Dollar 700 million for PTTEP Canada International Finance Limited (PTTEP CIF).
 - The Company has commitment for the guarantee of unsecured and unsubordinated capital debentures of Baht 15,000 million and US Dollar 650 million for PTTEP Treasury Center Company Limited (PTTEP TC)
 - The Company has commitment for the guarantee of subordinated capital debentures of US Dollar 30.85 million for PTTEP TC.
 - The Company has commitment for the guarantee of unsecured and unsubordinated loans of US Dollar 600 million for PTTEP TC.
 - The Company has commitment from entering into 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.

Obligation under Gas Sale Agreement

According to the Gas Sales Agreement (GSA) of MTJDA B-17 Project, if PTTEP International Limited (PTTEPI) and the joint operation partner, as the sellers, fail to deliver the quantity of natural gas notified by the buyer on the agreed upon date, the buyer has the right to take the deficient quantity of natural gas (Shortfall) at a price equal to 75% of the current price applicable at the time the Shortfall occurred.

As at December 31, 2019, PTTEPI had an obligation for the Shortfall as per GSA mentioned above with the approximate total cost for PTTEPI of US Dollar 0.24 million (Baht 7.24 million). Currently, the negotiation between the buyer (PTT) and the seller is in process.

Contingent liabilities

On March 11, 2016, PTTEP AA received a letter from a firm of Australia lawyers representing a group of West Timorese seaweed farmers, notifying 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 August 9, 2016, 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. 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 related 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 in which US Dollar 59.90 million was the Group's proportion.

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 finalized when it is judged by the Supreme Court.

• As at December 31, 2019, the Company had contingent liabilities in the form of letters of guarantee amounting to US Dollar 275.21 million (Baht 8,298.75 million) for the Company's financial statements and US Dollar 383.54 million (Baht 11,565.17 million) for the consolidated financial statements.

46. Events after the Reporting Date

- On January 10, 2020, PTTEP Treasury Center Company Limited (PTTEP TC) has repurchased the subordinated capital debentures in the all of outstanding debentures at the amount of US Dollar 30.85 million.
- On January 15, 2020, PTTEP Canada International Finance Limited (PTTEP CIF) has repurchased the unsecured and unsubordinated capital debentures in the amount of US Dollar 220 million from totalling amount of US Dollar 700 million. The remaining of debentures after redemption has the amount of US Dollar 480 million. PTTEP CIF will exercise its Optional Redemption rights for the remaining debentures in accordance with the terms and conditions of the debentures.
- On January 15, 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 2.993% per annum, guaranteed by the Company.



- On February 12, 2020, PTTEP Energy Holding (Thailand) Company Limited (PTTEP EH), a subsidiary of the Group, increased its authorized share capital by Baht 726,795,600 by issuing of 7,267,956 newly issued ordinary shares, at the par value of Baht 100 each.
- On February 13, 2020, PTTEP Business Center Company Limited (PTTEP BC), a subsidiary of the Group, increased its authorized share capital by Baht 726,795,600 by issuing of 72,679,560 newly issued ordinary shares, at the par value of Baht 10 each.
- On February 18, 2020, PTTEP MENA Limited (PTTEP MENA), a subsidiary of the Group, increased its authorized share capital by US Dollar 24,000,000 by increasing its par value per share to US Dollar 82,000.

■ The Company's Board of Directors authorized for the issue of this financial statements on February 18, 2020.

Supplemental Information on Petroleum Exploration and Production Activities (Unaudited)

(A) PTTEP and Our Subsidiaries' Petroleum Reserves Report as of December 31, 2019

The total Proved Reserves of PTTEP and our subsidiaries as of December 31, 2019 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, 2019, the total amount of Proved Reserves of PTTEP Group's projects¹ was 310 million stock-tank barrels (MMSTB) of crude oil and condensate², and 5,097 billion standard cubic feet (BSCF) of natural gas or 830 million barrels of oil equivalent (MMBOE). The total amount of Proved Reserves in terms of oil equivalent in consolidation was therefore 1,140 MMBOE. Proved Reserves of crude and condensate are approximately 27% while, for gas, are 73% of the total Proved Reserves in terms of oil equivalent.

In 2019, the total production of PTTEP Group¹ was 151 MMBOE, consisting of 41 MMSTB of crude oil and condensate² and 690 BSCF or 110 MMBOE of natural gas. This was equivalent to the production rate of approximately 413,640 barrels of oil equivalent per day (BOED), which was approximately 54,255 BOED or 15.1% increase from the previous year. The increase was mainly due to the acquisition of Murphy Oil Corporation in Malaysia and Partex Holding B.V.

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¹ Include APICO Joint Venture project

² Include the proved reserves and production of LPG

PTT Exploration and Production Public Company Limited Crude Oil and Condensate and Natural Gas Proved Reserves (1) Crude Oil and Condensate(2) Natural Gas Barrel of Oil Equivalent (MMSTB) (BSCF) (MMBOE) Domestic Foreign Total Domestic Foreign Total Domestic Foreign Total Company's share of reserves of consolidated companies As of December 31, 2017 99 57 156 1,824 1,225 3,049 398 233 631 1) Revision of previous estimates 19 5 24 108 51 159 36 14 50 2) Improved recovery 5 0 5 57 13 70 14 2 16 3) Extensions and discoveries 14 1 15 368 371 72 1 73 4) Purchases/Sales of Petroleum in place 6 (8) (2) 249 249 47 (9) 38 5) Production (27)(7) (34)(425)(187)(612)(97)(34)(131)116 48 164 2,181 1,105 3,286 470 207 677 As of December 31, 2018 Company's share of 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 2) Improved recovery 1 2 3 0 1 1 1 1 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

(41)

310

0

(475)

2,720

16

(212)

2,377

(687)

16

5,097

(107)

2

566

(43)

574

(150)

1,140

2

Company's share of Reserves

of equity companies⁽³⁾
As of December 31, 2019

5) Production

(30)

0

123

(11)

187



⁽¹⁾ 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⁾ LPG Included

⁽³⁾ Included 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 and decommissioning costs. Unproved properties represent amounts associated with capitalized cost of projects which have not yet found proved reserves.

(Unit: Million US Dollar)	2019	2018
Proved properties	31,152	26,731
Unproved properties	<u>4,366</u>	<u>4,715</u>
Gross capitalized costs	35,518	31,446
Accumulated depreciation, depletion, amortization and		
allowance for impairment	<u>(22,277)</u>	<u>(20,218)</u>
Net capitalized costs	<u>13,241</u>	<u>11.228</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.

	2019			2018		
(Unit: Million US Dollar)	Domestic	Foreign	Total	Domestic	Foreign	Total
Acquisition of properties						
- Proved	60	2,580	2,640	1,314	-	1,314
- Unproved	-	22	22	-	26	26
Exploration costs	5	210	215	1	75	76
Development costs	<u>594</u>	<u>354</u>	948	<u>718</u>	<u>273</u>	<u>991</u>
Total	<u>659</u>	<u>3.166</u>	3.825	2.033	<u>374</u>	2.407

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(D) Results of operations for producing activities

Results of operations from oil and gas producing activities for the year 2019 and 2018 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.

General 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.

(Llaste Millians LIC Dallan)	2019			2018			
(Unit: Million US Dollar)	Domestic	Foreign	Total	Domestic	Foreign	Total	
Gross revenues							
Sales – Related parties	4,281	1,024	5,305	3,745	1,085	4,830	
Sales – Third parties	276	891	1,167	304	465	769	
Total sales	4,557	1,915	6,472	4,049	1,550	5,599	
Expenses							
Operating expenses	486	582	1,068	436	497	933	
Exploration expenses	2	127	129	2	43	45	
General administrative expenses	43	94	137	35	76	111	
Petroleum royalties	528	19	547	470	-	470	
Depreciation, depletion and amortization	1,511	497	2,008	1,371	459	1,830	
Other (income) / expenses	<u>(59)</u>	<u>(37)</u>	<u>(96)</u>	<u>(14)</u>	<u>83</u>	<u>69</u>	
Total expenses	2,511	1,282	3,793	2,300	1,158	3,458	
Results before income taxes	2,046	633	2,679	1,749	392	2,141	
Income tax expenses	<u>706</u>	<u>210</u>	<u>916</u>	<u>573</u>	<u>237</u>	<u>810</u>	
Net results of operations	<u>1,340</u>	<u>423</u>	<u>1,763</u>	<u>1,176</u>	<u>155</u>	<u>1,331</u>	

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(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.

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

(Unit Million US Dellar)	Dom	Domestic		Foreign		Total	
(Unit: Million US Dollar)	2019	2018	2019	2018	2019	2018	
Future cash inflows	17,902	16,164	20,025	6,759	37,927	22,923	
Future production costs	(2,784)	(2,660)	(4,946)	(1,251)	(7,730)	(3,911)	
Future development costs	(7,548)	(6,048)	(3,682)	(933)	(11,230)	(6,981)	
Future income tax expenses	(2,174)	(2,288)	(3,186)	(945)	(5,360)	(3,233)	
Future net cash flows	5,396	5,168	8,211	3,630	13,607	8,798	
10% annual discount	(1,091)	(818)	(4,039)	(1,169)	(5,130)	(1,987)	
Standardized measure of discounted future	4,305	4,350	4,172	2,461	8,477	6,811	
net cash flows (SMDCF) of consolidated							
companies							
SMDCF of equity companies ³	37	-	-	-	37	-	
Total SMDCF	<u>4,342</u>	<u>4,350</u>	<u>4,172</u>	<u>2,461</u>	<u>8,514</u>	<u>6,811</u>	

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

(Unit: Million US Dollar)	2019	2018
Present value at beginning of year of consolidated companies	6,811	5,399
Sales and transfers of oil and gas produced, net of production costs during period	(4,652)	(3,767)
Development costs incurred during the period	960	1,145
Net changes in prices and production costs	2,197	3,216
Net changes in development costs	(112)	(564)
Extensions, discoveries and improved recovery	4,414	1,412
Revisions of previous quantity estimates	415	579
Purchases / sales of petroleum in place	3,714	1,225
Accretions of discount	(3,143)	(1,045)
Net changes in income taxes	(2,127)	<u>(789)</u>
Present value at the year end of consolidated companies	8,477	6,811
Present value at the year end of equity company ³	<u>37</u>	-
Total Present value at the year end	<u>8,514</u>	<u>6,811</u>

 $^{^{\}rm 3}$ included investment in APICO Joint Venture project

(F) Other Information

Productive Oil/Condensate and Gas Wells

The numbers of productive wells at December 31, 2019 were as follows:

	Oil/Condensate	Gas
	Gross	Gross
Thailand	865	1,205
Foreign		
Southeast Asia	129	286
Others	9,315	-
Total	10,309	1,491

Drilling in Progress of Oil/Condensate and Gas Wells

The numbers of wells in progress at December 31, 2019 were as follows:

	Number of Well
Exploratory	
Thailand	-
Foreign	
Southeast Asia	1
Others	-
Total	1
<u>Development</u>	
Thailand	16
Foreign	
Southeast Asia	2
Others	1
Total	19

Net Oil/Condensate and Gas Wells Drilled Annually in 2019

	Productive Well	Dry Well
Exploratory		
Thailand	-	-
Foreign		
Southeast Asia	8	8
Others	1	1
Total	9	9
<u>Development</u>		
Thailand	342	12
Foreign		
Southeast Asia	43	1
Others	-	-
Total	385	13

Quarterly Information in 2019 and 2018 for the consolidated financial statement are as follows:

Year 2019	4thQ	3rdQ	2ndQ	Unit: US Dollar
Revenues				
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	29,442,854	19,975,173	26,449,713	32,729,790
Interest income	13,597,516	12,741,830	32,807,784	27,087,691
Gain on financial derivatives	-	21,347,992	-	-
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 amortization	577,988,263	511,721,459	476,953,188	459,392,677
Other expenses				
Loss on financial derivatives	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
Basic earnings per share				
Continuing operations	0.09	0.09	0.10	0.10

				Unit: US Dollar
<u>Year 2018</u>	_4thQ_	3rdQ	2ndQ	1stQ
Revenues				
Sales	1,411,017,765	1,337,321,462	1,293,593,282	1,160,877,348
Revenue from pipeline transportation	29,190,306	29,987,855	25,367,013	23,018,560
Other income				
Gain on foreign exchange	-	-	-	25,062,316
Interest income	22,703,516	19,802,410	20,873,464	19,973,276
Gain on financial derivatives	71,955,087	-	-	-
Other income	21,530,874	10,632,882	7,900,369	10,719,935
Total Revenues	1,556,397,548	1,397,744,609	1,347,734,128	1,239,651,435
Expenses				
Operating expenses	168,808,730	166,176,601	168,992,974	141,105,849
Exploration expenses	9,022,944	18,637,627	15,277,426	2,747,477
Administrative expenses	104,706,341	69,634,574	58,439,352	57,453,370
Petroleum royalties	133,659,700	121,414,377	110,641,320	103,947,632
Depreciation, depletion and amortization	484,519,932	496,344,211	459,708,136	407,938,260
Other expenses				
Loss on foreign exchange	7,386,463	6,059,895	30,248,049	-
Loss on financial derivatives	-	6,808,271	7,553,864	43,626,319
Other expenses	20,745,077	37,022,924	-	-
Finance costs	66,885,106	57,421,070	57,212,601	57,046,118
Total Expenses	995,734,293	979,519,550	908,073,722	813,865,025
Share of profit of associates and joint ventures	1,699,603	2,285,467	1,848,770	2,098,428
Profit (loss) before income taxes	562,362,858	420,510,526	441,509,176	427,884,838
Income taxes	(294,011,392)	(105,156,779)	(328,480,261)	(5,009,755)
Profit for the year	268,351,466	315,353,747	113,028,915	422,875,083
Basic earnings per share				
Continuing operations	0.07	0.07	0.03	0.10

	2019	2018
Net sales of petroleum (BOED) Average petroleum unit prices	350,651	305,522
Average unit prices of crude oil and condensate (USD/BBL)	61.18	67.40
Average unit prices of natural gas (USD/MMBTU)	6.92	6.42
Average unit prices of petroleum (USD/BOE)	47.24	46.66
Lifting cost (USD/BOE)	4.31	4.33





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