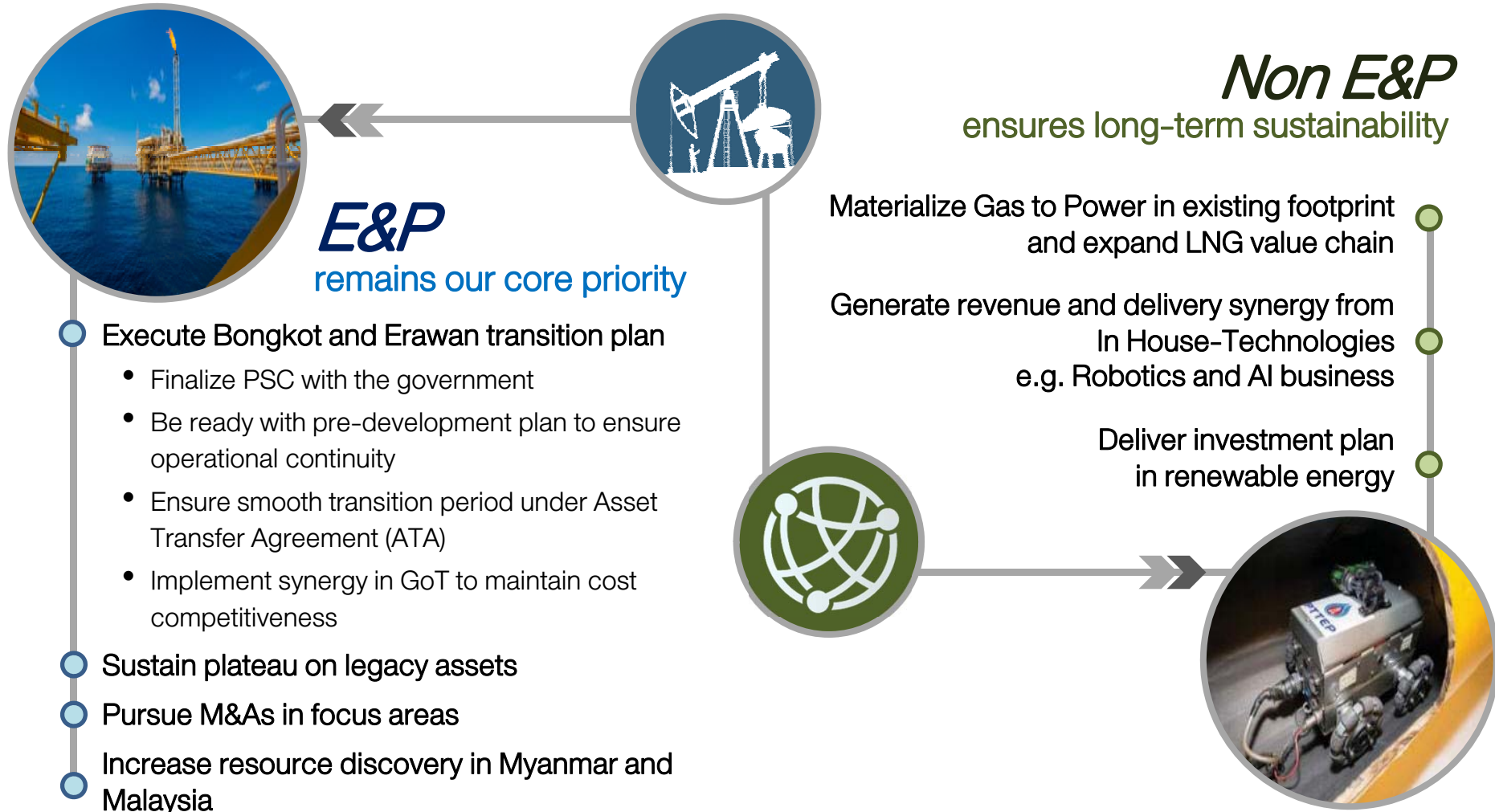


# Five -Year Investment Plan

Bangkok, Thailand

18 December 2018



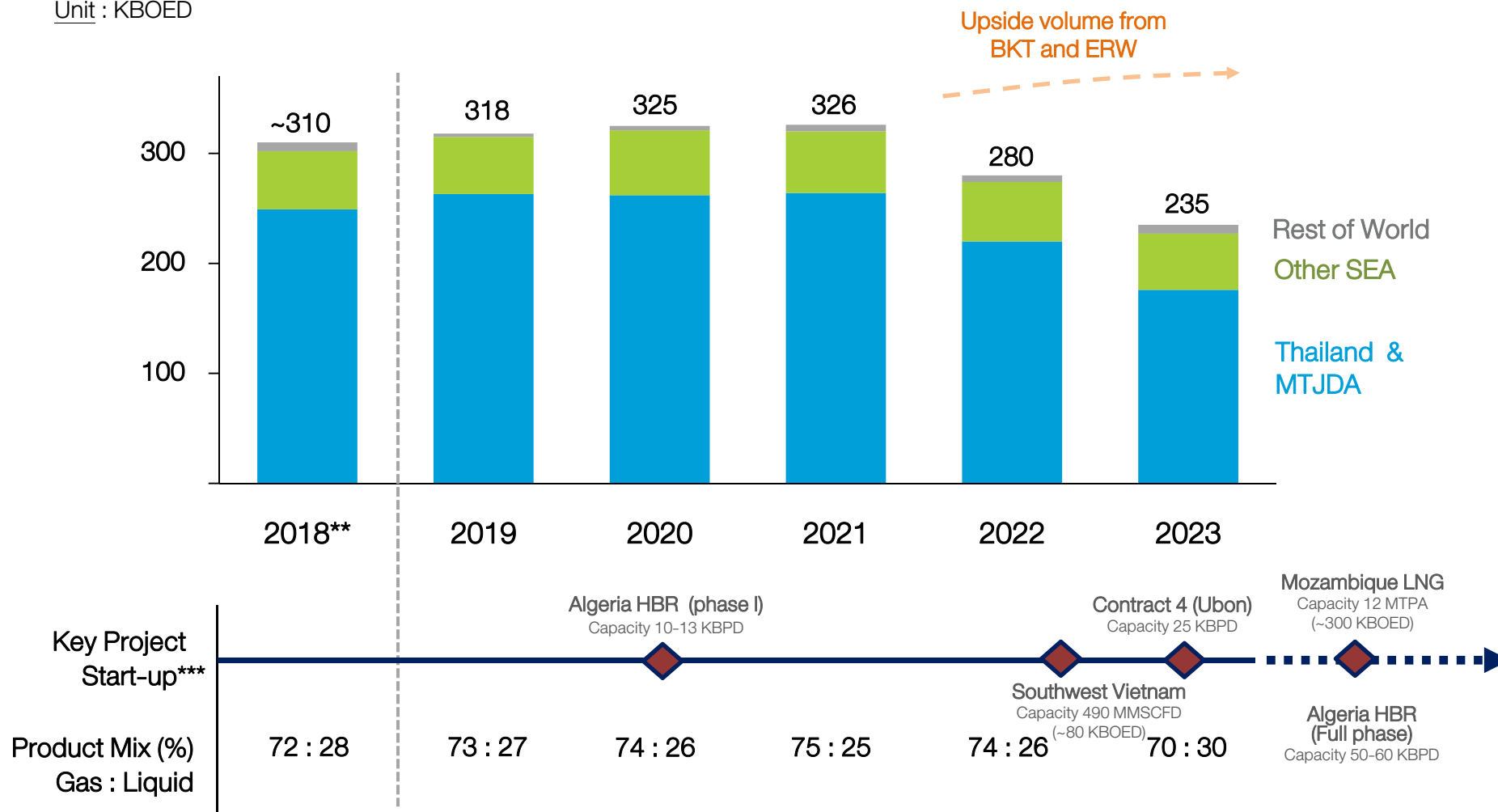


Supported by Robust Financial Position (As of 9M2018)  
 Cash on hand : \$3.8 Bn | Low gearing : 0.17x | EBITDA margin : 73%

# Target Sales Volume\*

Maximize volume from legacy assets with substantial upside from BKT and ERW after 2022

Unit : KBOED

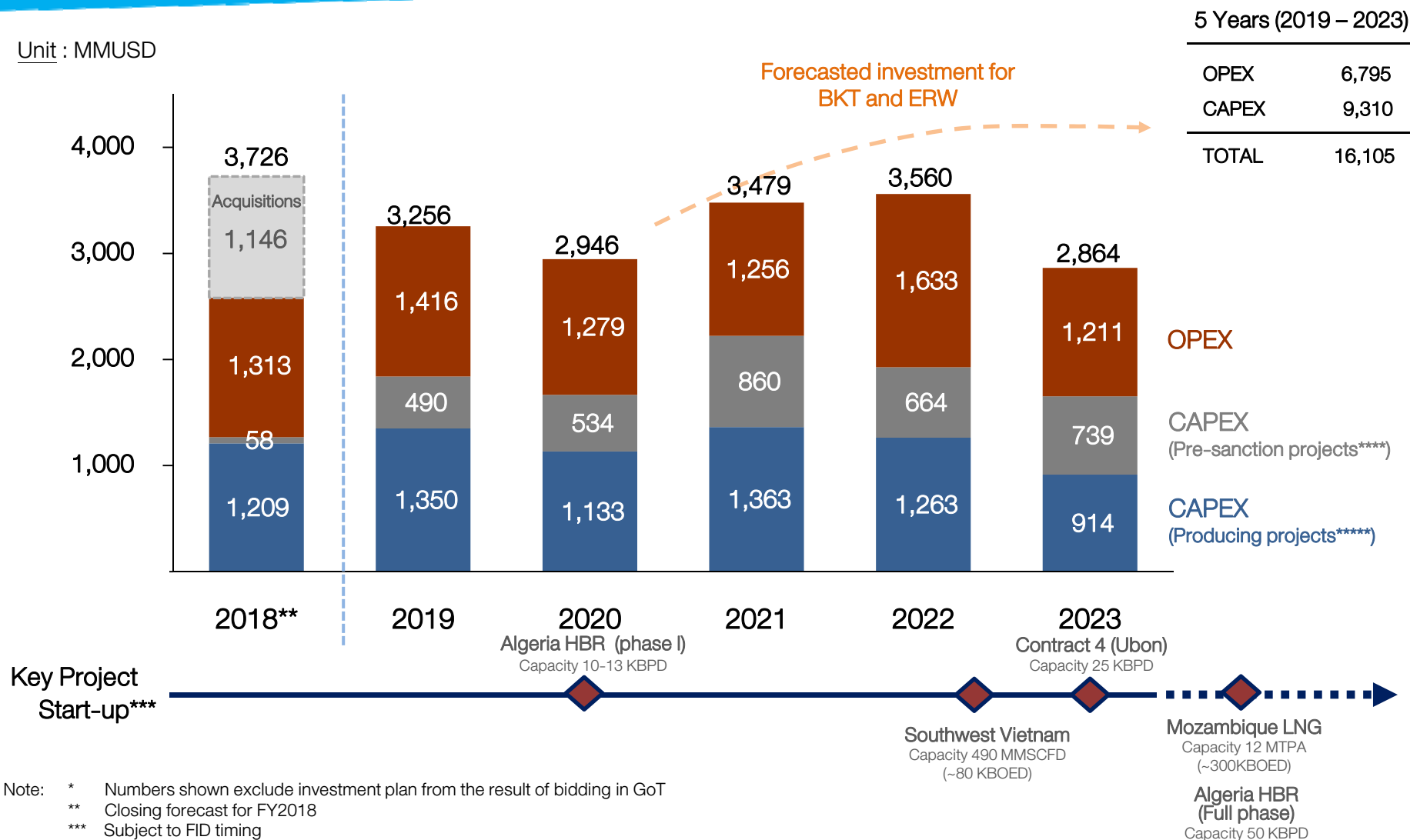


Note: \* Numbers shown exclude upside from result of the bidding in GoT  
 \*\* Closing forecast for FY2018  
 \*\*\* Subject to FID timing

# Investment Plan (CAPEX and OPEX)\*

Prioritize investment to deliver volume target

Unit : MMUSD

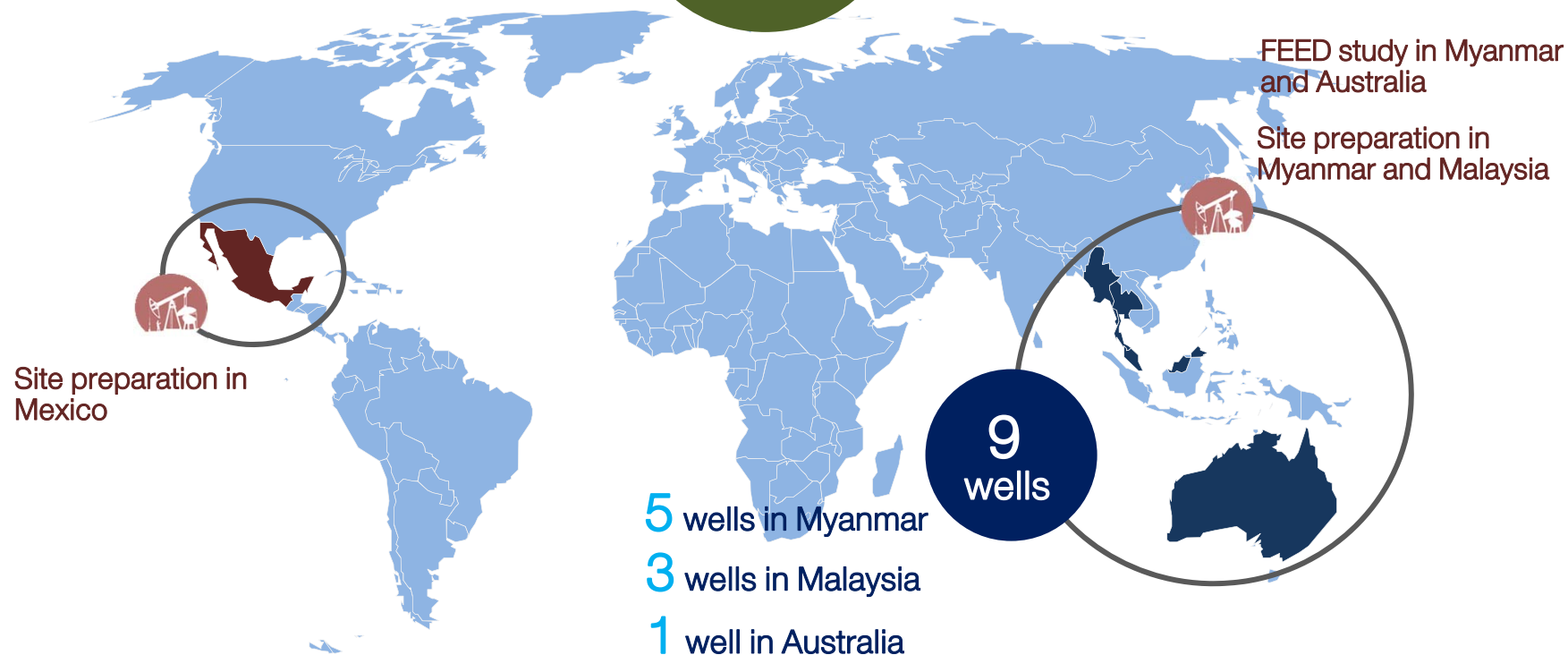


Note: \* Numbers shown exclude investment plan from the result of bidding in GoT  
 \*\* Closing forecast for FY2018  
 \*\*\* Subject to FID timing  
 \*\*\*\* Pre-sanction projects include Mozambique LNG, Contract 4 (Ubon), Algeria HBR and Southwest Vietnam  
 \*\*\*\*\* Includes exploration and appraisal in all projects and head office CAPEX



# Exploration Plan in 2019

Exploration activities to accelerate resources discovery



Note: Excludes exploration activities of producing assets around 120 MMUSD

You can reach the Investor Relations team for more information and inquiry through the following channels:



<http://www.pttep.com>



[IR@pttep.com](mailto:IR@pttep.com)



+66 2 537 4000

## Supplemental documents on the bidding announcement

## Price Formula under TOR

*"116 THB/MMBTU is "Price Constant" to be adjusted by various factors"*

Pricing Formula:  $Pr_{(y)} = Pc \times M_{(y)} \times \left( a \frac{PPI_{(y)}}{PPI} + \frac{I_{(y)}}{I} \left\{ b \frac{OM_{(y)}}{OM} + c \frac{DB_{(y)}}{DB} + d \right\} \right)$

$DB_{(y)} < 52$	$M = 0.91 + 0.11 \frac{DB_y}{52}$
$52 \leq DB_{(y)} < 100$	$M = 1.02 - 0.15 \frac{DB_y - 52}{48}$
$DB_{(y)} > 100$	$M = 0.22 + 6.44 \times \frac{1}{\sqrt{DB_y}}$

Whereas;

Pr : Gas Price  
Pc : Price Constant  
I : Exchange rate  
PPI : Producer Price Index  
OM: PPI for Oil Machinery and Tools  
DB: Dubai oil price

Base year numbers (2016): PPI = 101.4167 I = 35.3 THB/USD OM = 214.88 DB = 41.27\$/BBL

$$Pr_{(y)} = 116 \times M_{(y)} \times \left( 0.25 \frac{PPI_{(y)}}{101.4167} + \frac{I_{(y)}}{35.3} \left\{ 0.3 \frac{OM_{(y)}}{214.88} + 0.4 \frac{DB_{(y)}}{41.27} + 0.05 \right\} \right)$$

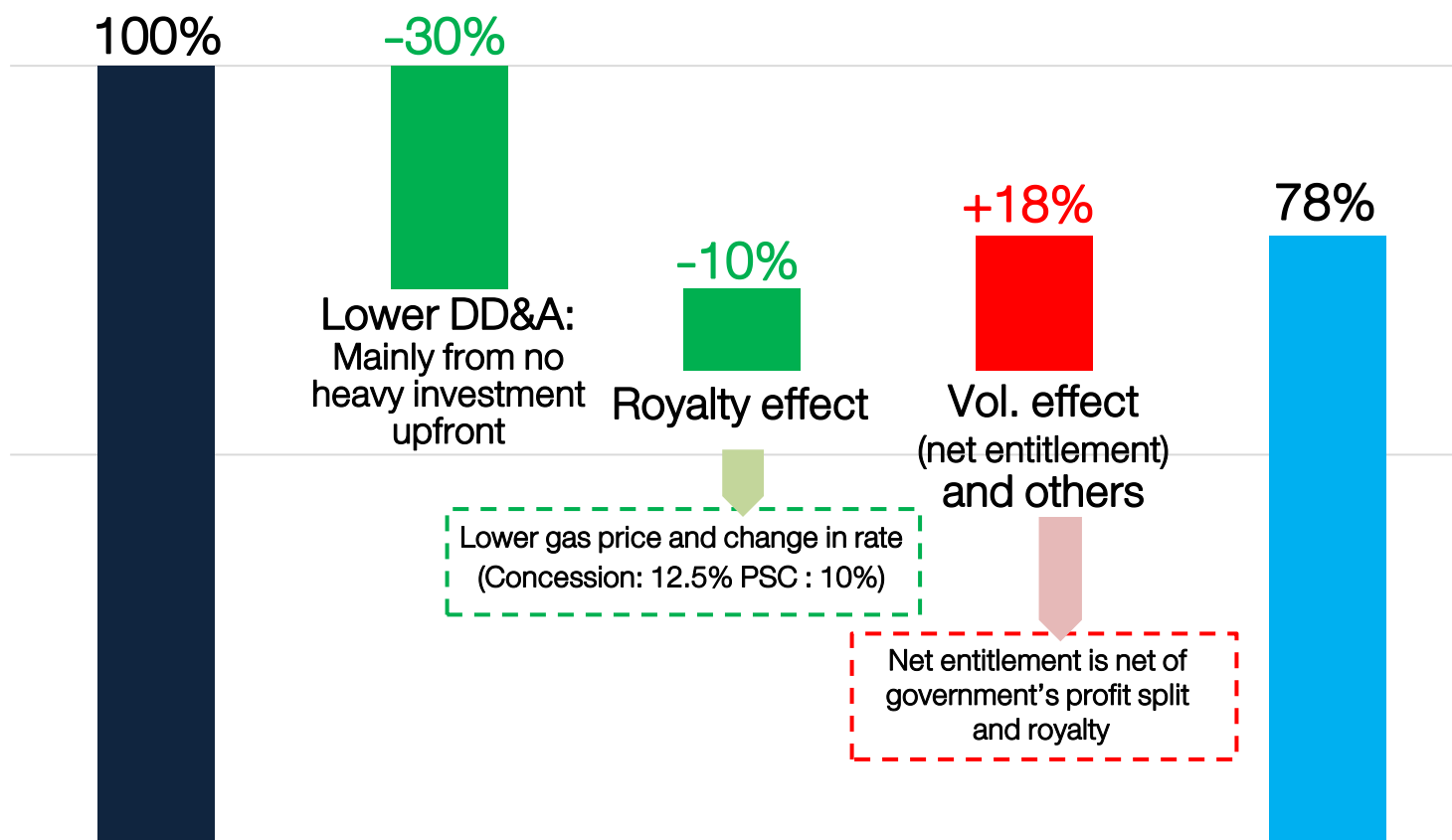
If assume Dubai price in range 60-80 \$/BBL, estimated gas price ~130-150 THB/MMBTU in 2022

*Price adjustment every April and October (preceding 6-month average Dubai price)*

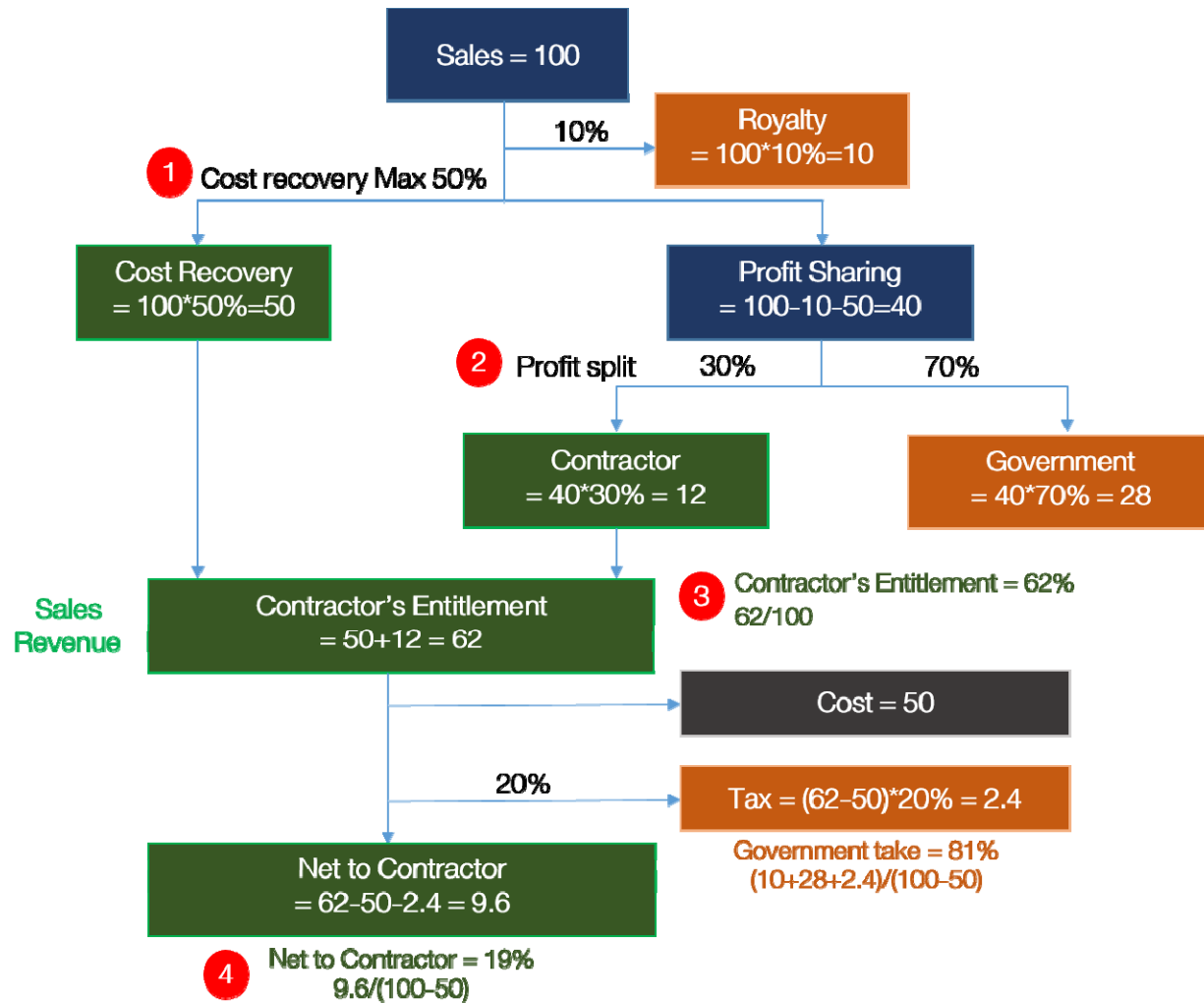


## Bongkot Unit Cost

*“Lower unit cost by 22%, mainly from no heavy investment upfront with cost synergy and optimization”*



*“Under proposed profit split of 30%, contractor's take is around 20% for field life”*



## Terms under new PSC

	G2/61 (Bongkot)	G1/61 (Erawan)
Price Constant	116 THB per MMBTU	116 THB per MMBTU
Contractor's Profit Split	30%	32%
Bonuses	Signature Bonus* 1,050 MMTHB Production Bonus** 1,575 MMTHB Supporting Contribution 7 MMTHB Other benefits 685 MMTHB	Signature Bonus* 1,050 MMTHB Production Bonus** 1,575 MMTHB Supporting Contribution 7 MMTHB Other benefits 35 MMTHB
Thai Employee Ratio	99%	98%
Facility Bonus***	175 MMTHB	350 MMTHB

### Remark of payment terms:

- \* No later than 10 working days prior to the PSC signing date
- \*\* Each time the cumulative production/sales reaches 100, 200 and 300 MMBOE
- \*\*\* Equally separate into 3 payments by 24th April of every year from 2022

Source: Press release from Department of Mineral Fuels (13 December 2018) and TOR