

dbAccess Thailand Corporate Day

24 June 2019



Hong Kong

Deutsche TISCO Investment Advisory



Agenda

01 Our Mission & Portfolio

02 Group Performance

03 Financial Performance

04 Appendix

Agenda

01 Our Mission & Portfolio

02 Group Performance

03 Financial Performance

04 Appendix

Vision & Mission

**Vision : To become a leading value-oriented
energy and infrastructure company in Asia Pacific**

To ensure shareholders' value creation
by continuously generating superior
financial returns

M1

M4

To raise employees' awareness and motivation
of self-development in preparation for future
business competition

To achieve world-class operational excellence
and enhance competitiveness

M2

M5

To support long-term domestic
energy security and
infrastructure

To be socially and environmentally responsible,
conducting business in a fair and sustainable
manner and complying with all related laws and
regulations

M3

M6

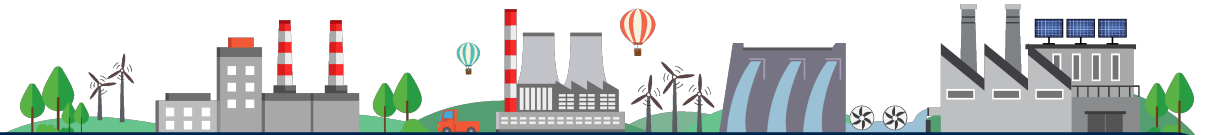
To seek new opportunities and alternatives in
related and other businesses to generate growth
and expand business base for shareholders

Goal



To increase generating capacity up to **10,000** MW or equivalent/to increase enterprise value (EV) up to 200 Billion Baht

To maintain the domestic revenue proportion not less than **50%** of the total revenue



To increase generating capacity in Renewable (including Hydro) not less than **20%** of total capacity from both domestic and oversea projects

To enhance organization on the principle of **HPO**
(High Performance Organization)

Valued Portfolio to Enhance Long-term Growth

- ☐ Electric Power Generation
 - : Gas, Coal, Mining, LNG
- ☐ Renewable Energy
 - : Wind, Solar, Hydro, Biomass, Nuclear, Geothermal, Wood Pallet
- ☐ O&M



- ☐ Water Supply
- ☐ Waste Water Management



Power

Water Supply

Energy & Infrastructure

Transportation

Telecommunication

- ☐ Roads
- ☐ Rails
- ☐ Mass Transit
- ☐ Ports
- ☐ Airports



- ☐ Underground Fiber Optic Network
- ☐ Smart Grid/Smart City
- ☐ Broadband Connectivity



Excellent Track Record of Successful Diversified Portfolio

Power Generation

Power plant projects in Thailand



Ratchaburi (RATCHGEN)
3,645 MW



Tri Energy (TECO)
720 MW



Ratchaburi Power (RPCL)
372.50 MW



Ratchaburi World (RW Cogen)
93.60 MW



Nava Nakhon (NNEG)
55.65 MW



Berkprai Cogeneration
34.73 MW

Under Construction

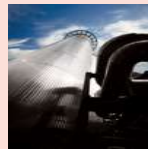
Nana Nakhon (Extension)
23.99 MW

International Investment

Power plant and renewable projects outside Thailand



Num Ngum 2
153.75 MW



Townsville
234MW



Kemerton
315.20 MW



BP Kwinana
35.40 MW



Mount Emerald
180.45 MW



Collinsville
42.50 MW

Under Construction

Xe-Pian Xe-Namnoy 102.5 MW
Riau Combined-Cycle 145.15 MW
Fangchenggang II Nuclear Power 236 MW

Under Development

Collector Wind Farm 226.8 MW



Hongsa
751.20 MW



Toora
21 MW



Starfish Hill
33 MW



Windy Hill
12 MW



Asahan-1
47.90 MW

Renewable Energy

Renewable projects in Thailand



Huay Bong 2
20.70 MW



Huay Bong 3
20.70 MW



Solar Power (Korat 3, 4 and 7)
8.64 MW



Solarta 20.73 MW



Songkhla Biomass 3.96 MW

Related Businesses

Power Plant Operation & Maintenance Services



CRESCO
Chubu Ratchaburi Electric Services Co., Ltd.

Fuel Supply

ບໍລິສັດ ພູໄຟມາຍນົງ ຈຳກັດ
Phu Fai Mining Company Limited



Capital Investment



EDL-Gen
114.97 MW

Other Business

MRT Pink Line and Yellow Line Projects



Sandin Water Supply



Underground Fiber Network Project

Continued Growth Projects Investment

Current Projects in Operation

6,937.58 MW

2019-2021: Committed Projects in pipeline 734.44 MW

Name of Power Plant/Project	Location	Technology	RATCH's stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	Expected COD
2019				410.00	102.50	
Xe-Pian Xe-Namnoy Hydroelectric Power Plant	Attapue and Champasak provinces, Laos	Hydro Power Plant	25	410	102.50	Dec 2019
2020				286.77	250.79	
Nava Nakorn SPP Power Plant (Extension)	Nava Nakorn Industrial Promotion Zone, Pathumthani Province	Cogeneration	40	59.97	23.99	Sep 2020
Collector Wind-Turbine Power Plant	New South Wales, Australia	Wind Power	100	226.80	226.80	In 2020
2021				2,656.23	381.15	
Riau Combined-Cycle Power Plant	Republic of Indonesia	Combined Cycle	49	296.23	145.15	May 2021
Fangchenggang II Nuclear Power Plant	Fangchenggang , China	Nuclear Power	10	2,360	236	In 2021

Transportation

MRT Pink Line Project

Technology: Monorail

Route: Khae Rai-Min Buri

Expected COD : In 2021

MRT Yellow Line Project

Technology: Monorail

Route: Lad Prao-Sam Rong

Expected COD : In 2021

Water Supply

Sandin Water Supply Project

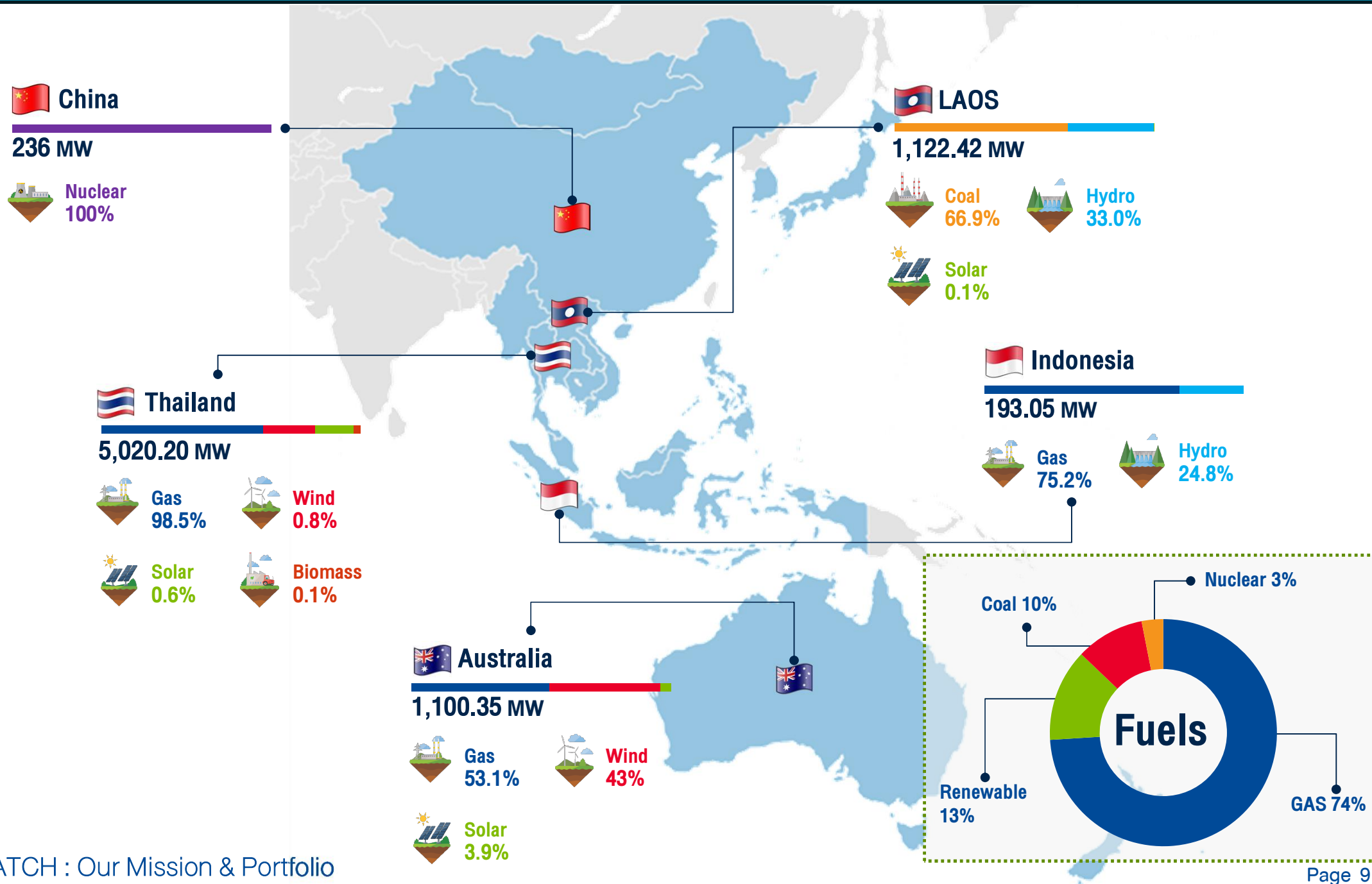
Type of Business : Generating water supply

Capacity :

Phase I: 24,000 cubic meters/day (2018)

Phase II: 48,000 cubic meters/day (2031)

Diversified Portfolio Across Core Locations



Agenda

01 Our Mission & Portfolio

02 Group Performance

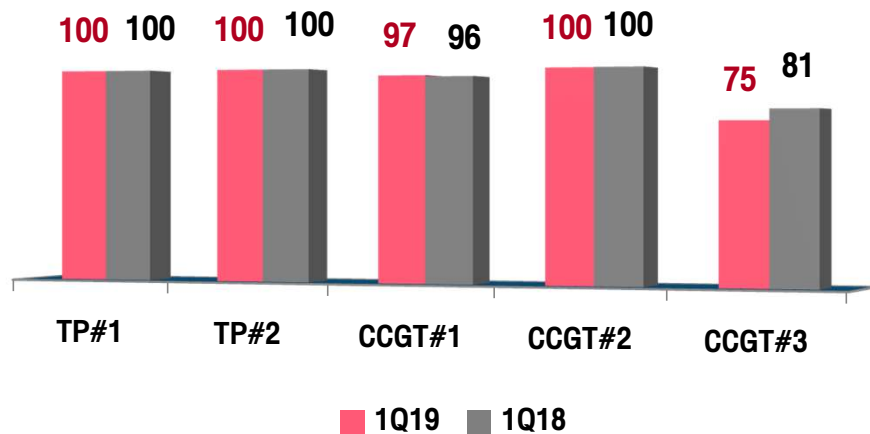
03 Financial Performance

04 Appendix

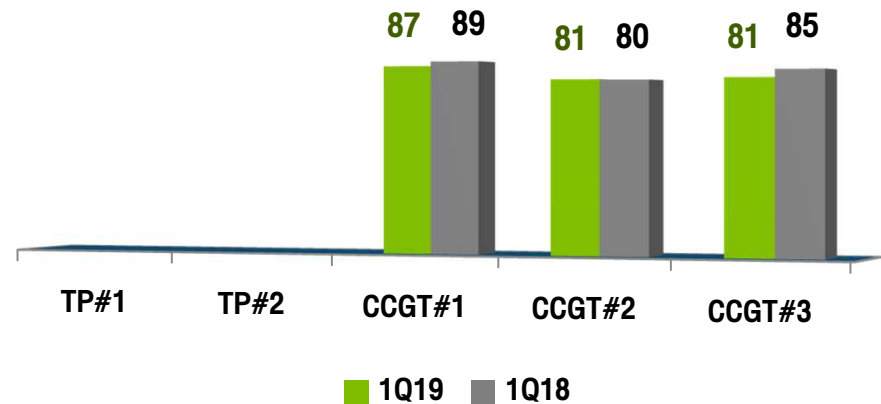
Operation Performance : RATCHGEN



%Equivalent Availability Factor



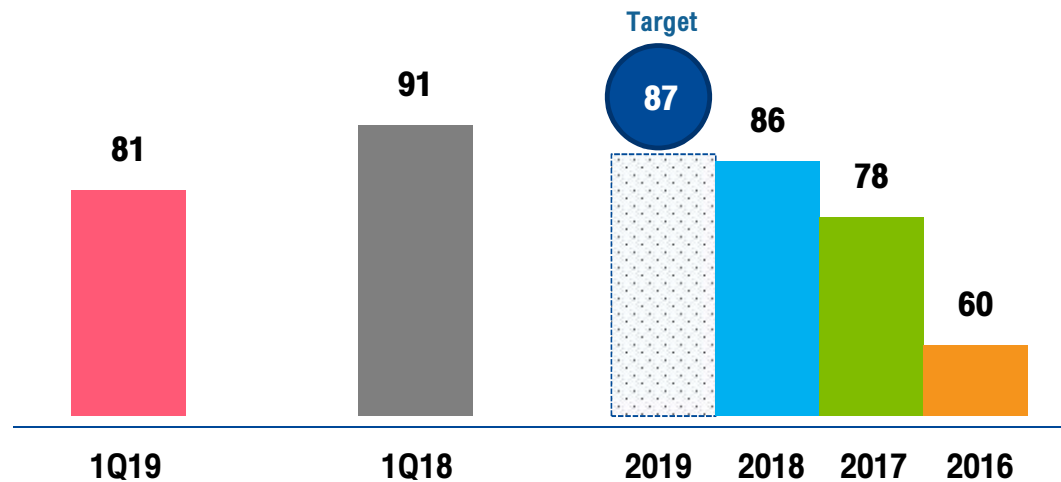
%Dispatch Factor



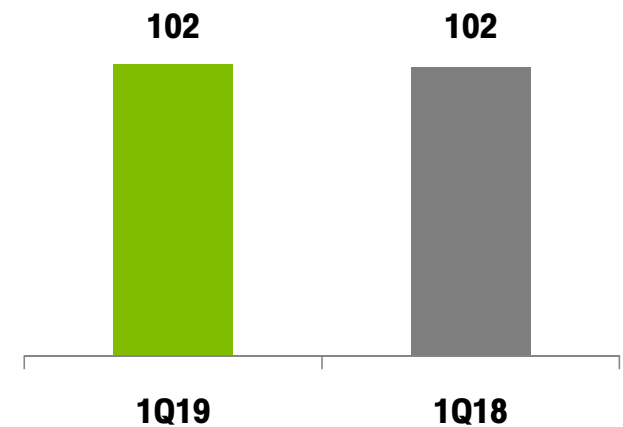
Operation Performance : Hongsa



% Commercial Equivalent Availability Factor (3 Units)



% Dispatch Factor (3 Units)

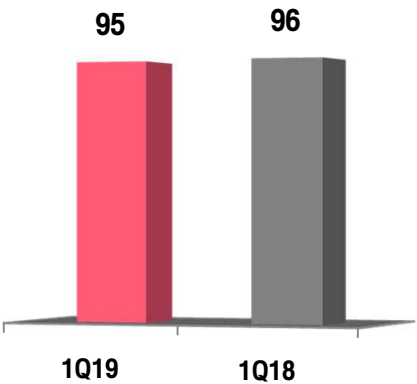


Operation Performance : Wind Projects

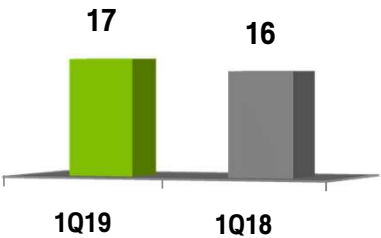


Huay Bong 2-3

%Avg. Commercial Availability

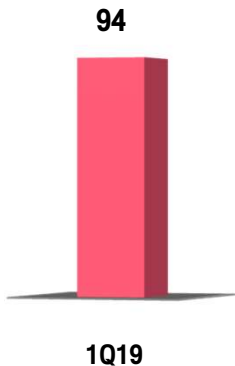


%Capacity Factor

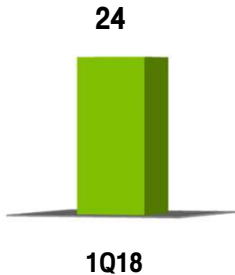


Mount Emerald

%Avg. Commercial Availability

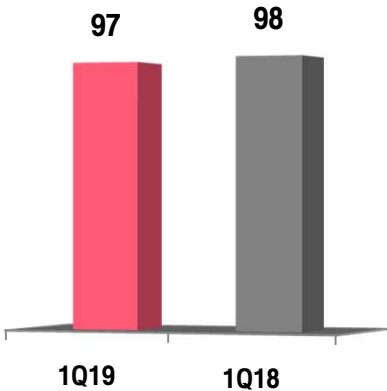


%Capacity Factor

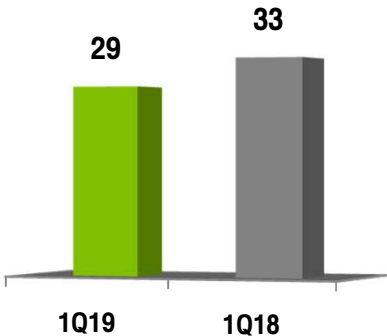


Starfish Hill

%Avg. Commercial Availability

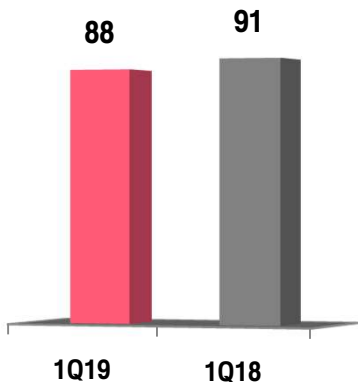


%Capacity Factor

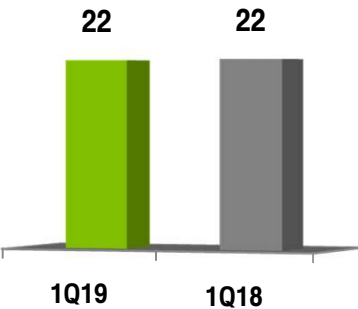


Toora

%Avg. Commercial Availability

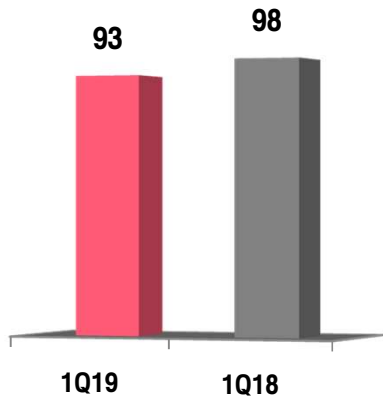


%Capacity Factor

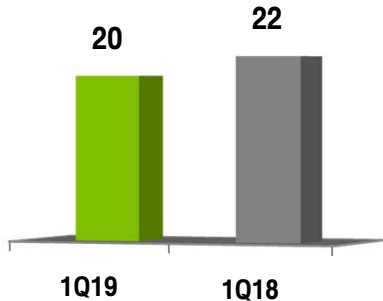


Windy Hill

%Avg. Commercial Availability



%Capacity Factor

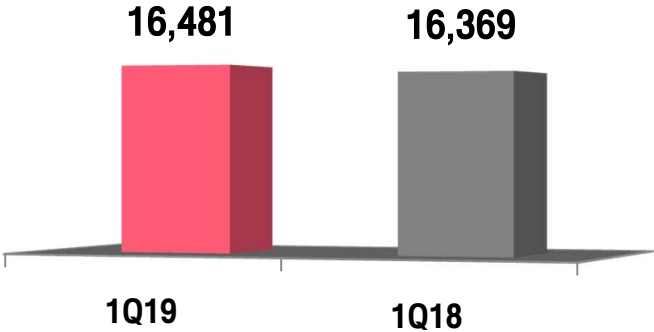


Operation Performance : Solar Projects

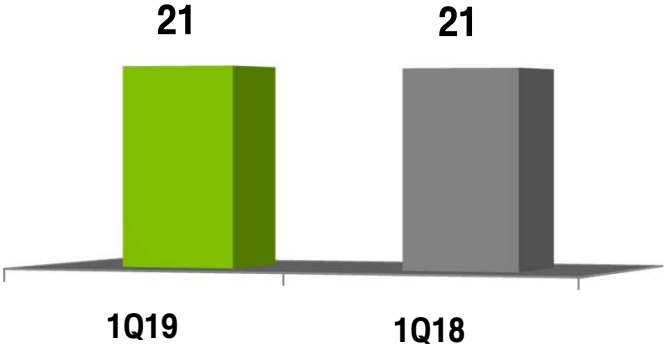


Solarta

Total Net Energy (MWh /Quarter)

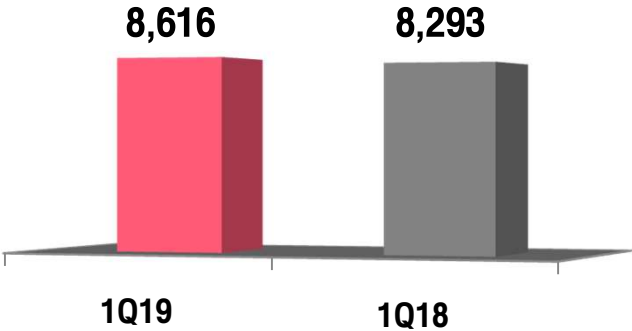


%Avg. Capacity Factor

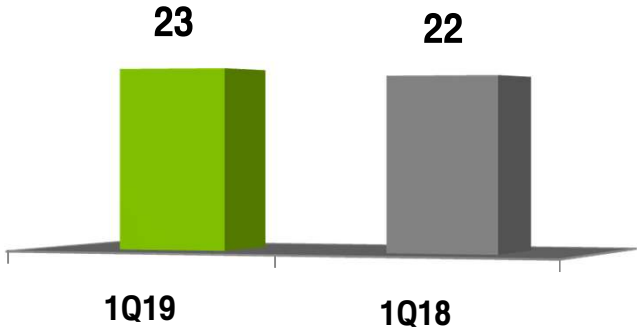


Korat 3 4 7

Total Net Energy (MWh /Quarter)



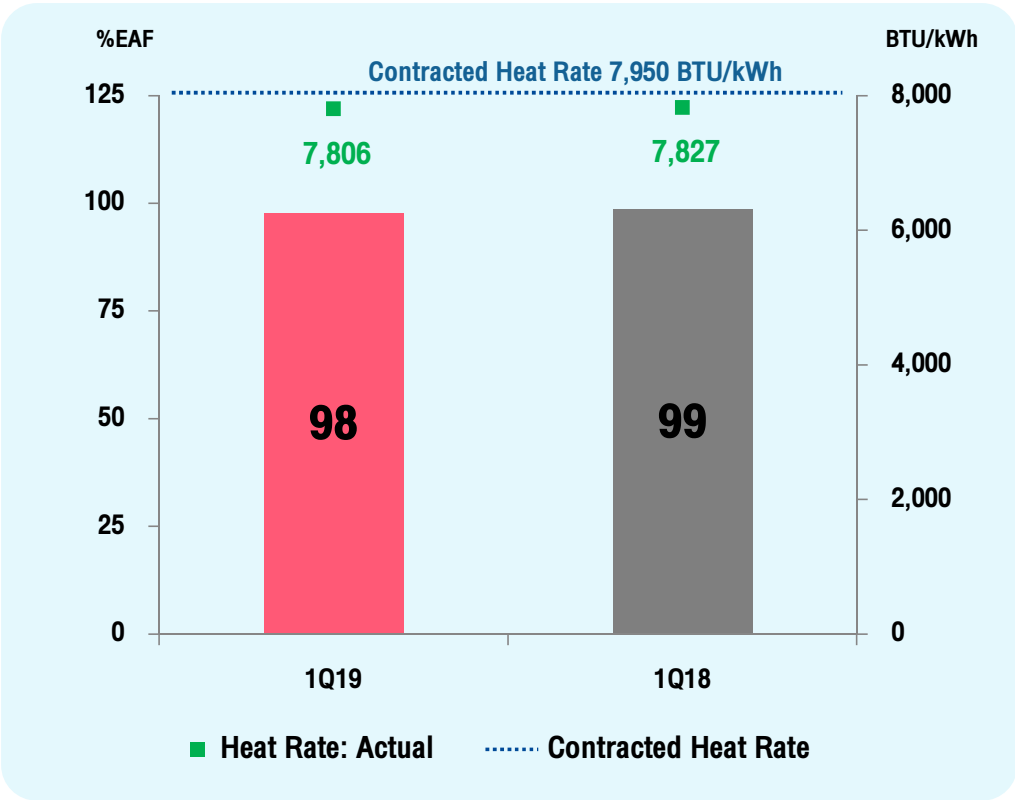
%Avg. Capacity Factor



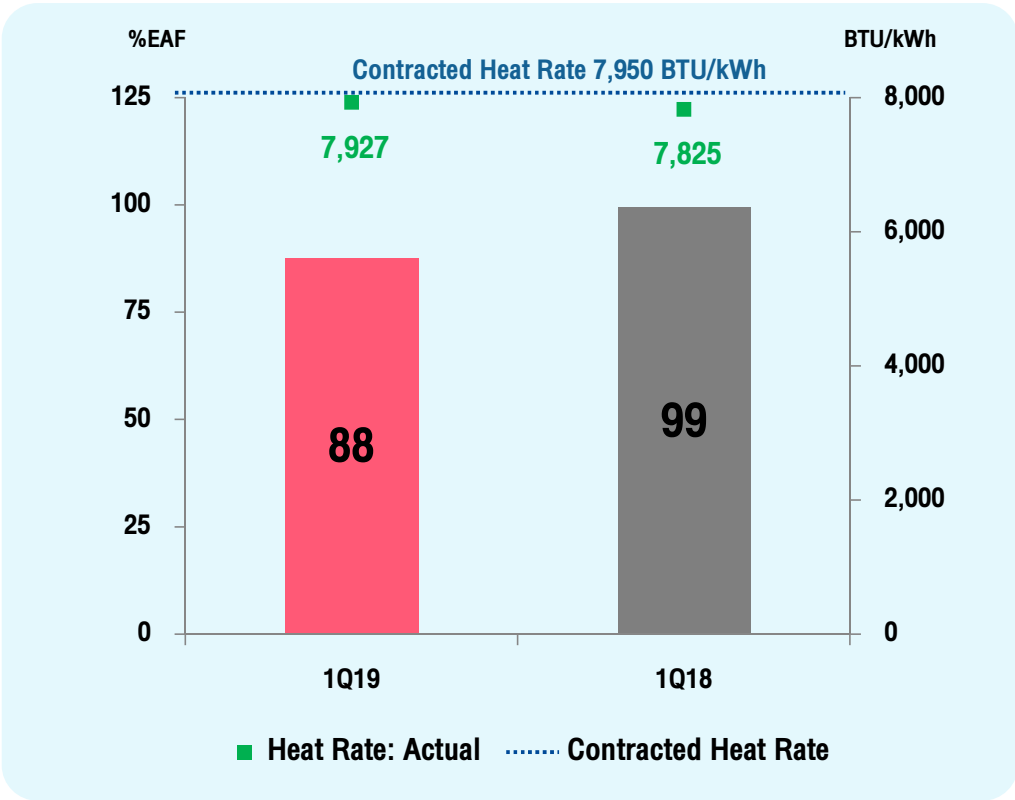
Operation Performance : SPP Projects



RW Cogen Block 1-2



NNEG



Agenda

01 Our Mission & Portfolio

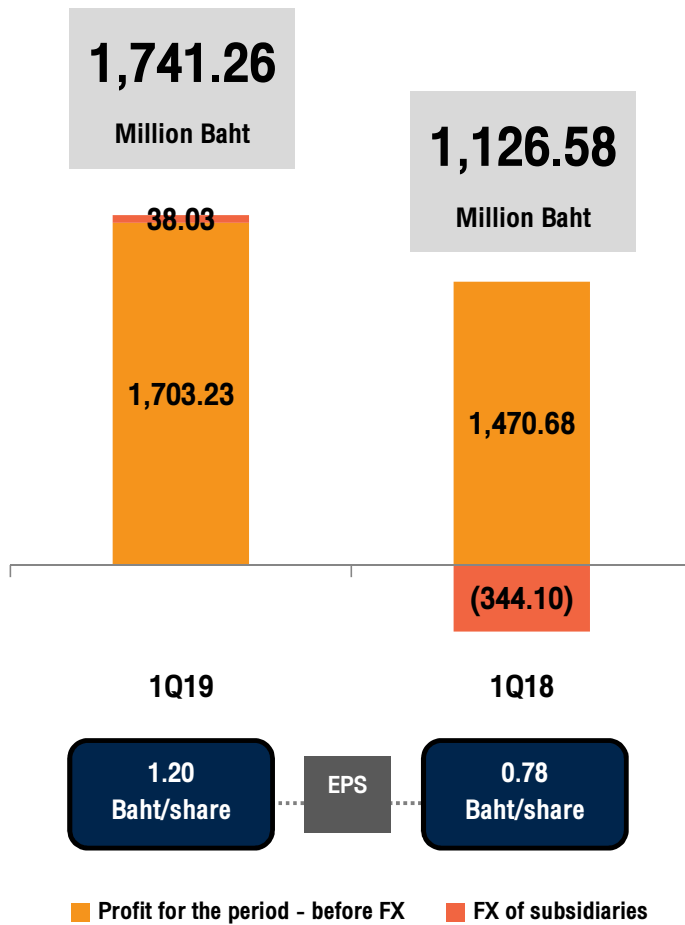
02 Group Performance

03 Financial Performance

04 Appendix

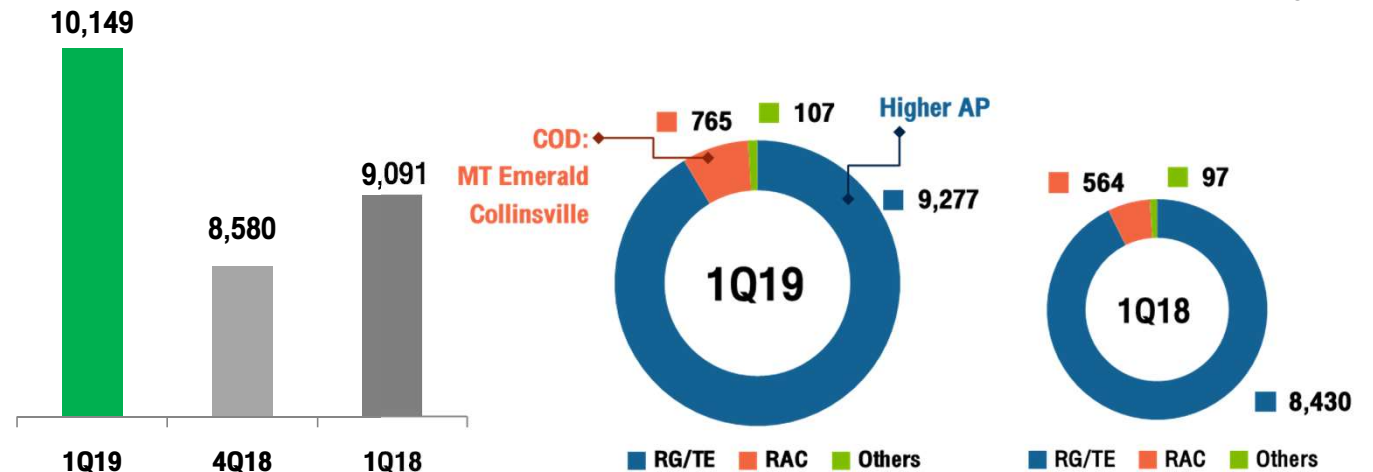
Profit for the period: Equity holders of the Company

Profit for the period: Equity holders of the Company



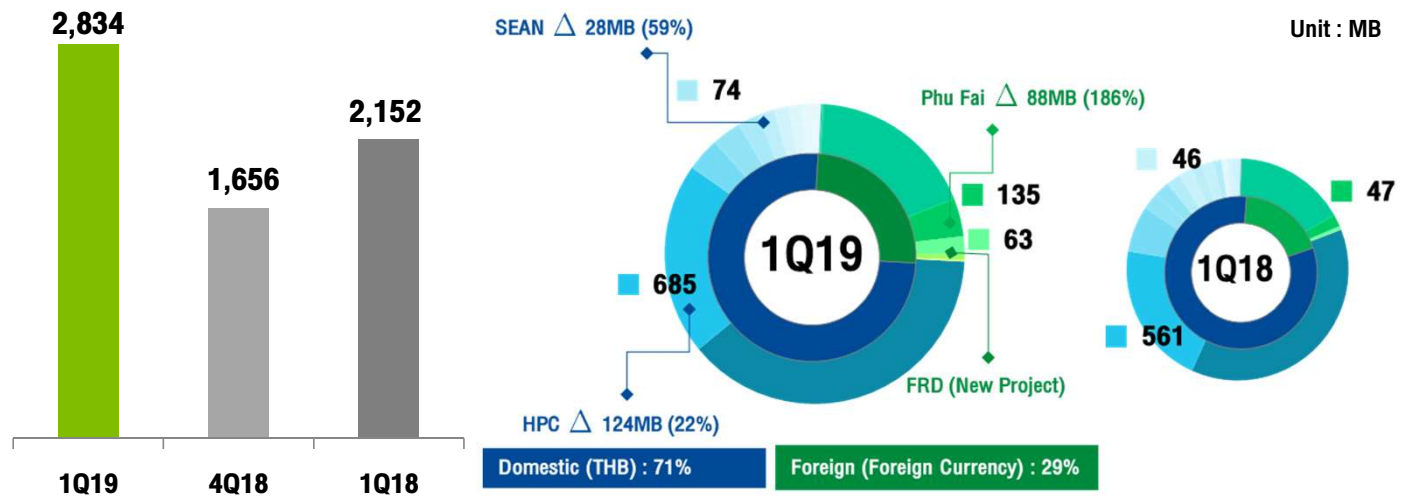
Revenue

Unit : MB



EBITDA

Unit : MB



Income Statement : 1Q19 & 1Q18

Unit : in Million Baht	1Q19	1Q18
Revenues	10,149.12	9,091.07
Cost & Expenses	(8,396.64)	(7,827.81)
EBITDA before Share of Profit and FX	1,752.48	1,263.26
Share of profit of jointly-controlled entities and associates including gain (loss) on foreign exchange	1,081.13	888.83
EBITDA	2,833.61	2,152.09
Depreciation & Amortization - Cost	(330.54)	(292.41)
Depreciation & Amortization – Admin	(18.33)	(19.80)
EBIT	2,484.74	1,839.88
Finance costs	(481.02)	(161.78)
Income tax expense	(300.49)	(229.09)
Profit for the period	1,703.23	1,449.01
Non-controlling interests	-	(21.67)
Profit for the period:	1,703.23	1,470.68
Equity holders of the Company - before FX		
Gain (Loss) on foreign exchange of subsidiaries	38.03	(344.10)
Profit for the Company	1,741.26	1,126.58

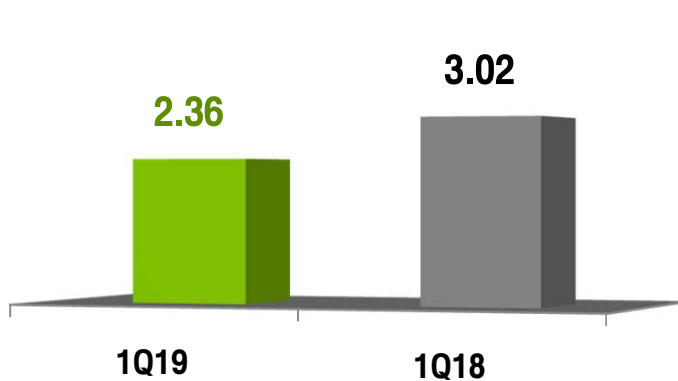
Statements of Financial Position

As of 31 March 2019

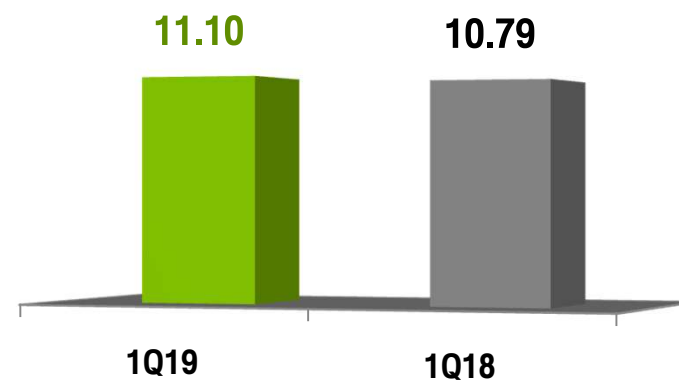
Total Assets	Million Baht	Total Liabilities & Equity	Million Baht
<u>Assets</u>		<u>Liabilities</u>	
Cash and cash equivalents	14,479.72	Loans from Related party, Financial Institutions & Debentures	32,770.43
Current investments	1,062.83	Derivative liabilities	721.46
Other Current Assets	10,476.21	Other liabilities	9,030.41
Investment in Jointly-controlled entities/Associates/Others	34,403.99	Total Liabilities	42,522.30
Derivative assets	203.16	<u>Equity</u>	
Financial lease receivables	17,275.97	Issued and paid-up share capital	16,031.78
Property, plant & equipments	19,685.38	Retained earnings	51,510.24
Other assets	5,598.54	Other components of equity	(6,878.52)
		Total equity	60,663.50
Total Assets	103,185.80	Total Liabilities & Equity	103,185.80

Financial Ratios*

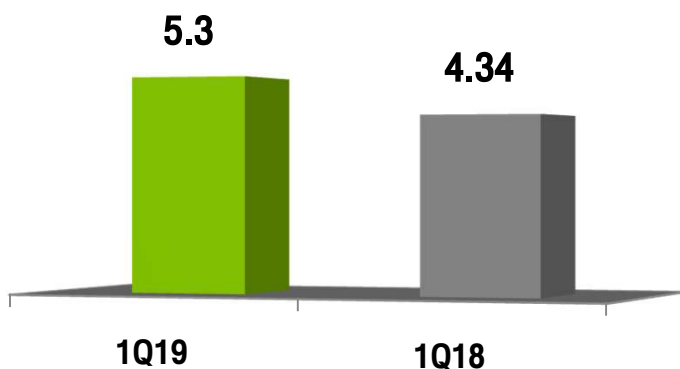
Current Ratio (times)



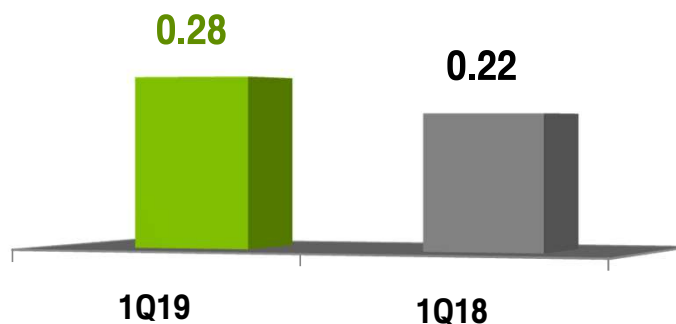
ROE (%)



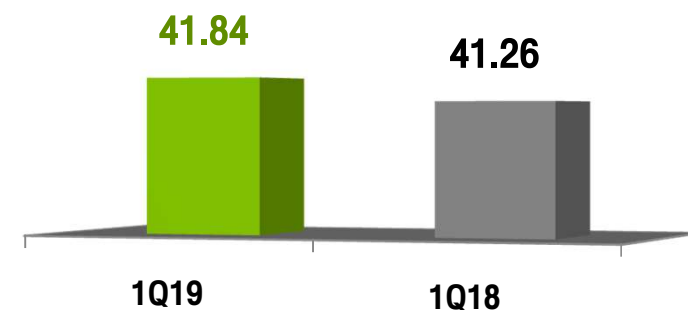
Net Debt to EBITDA** (times)



Net Debt to Equity (times)



Book Value per share (Baht)

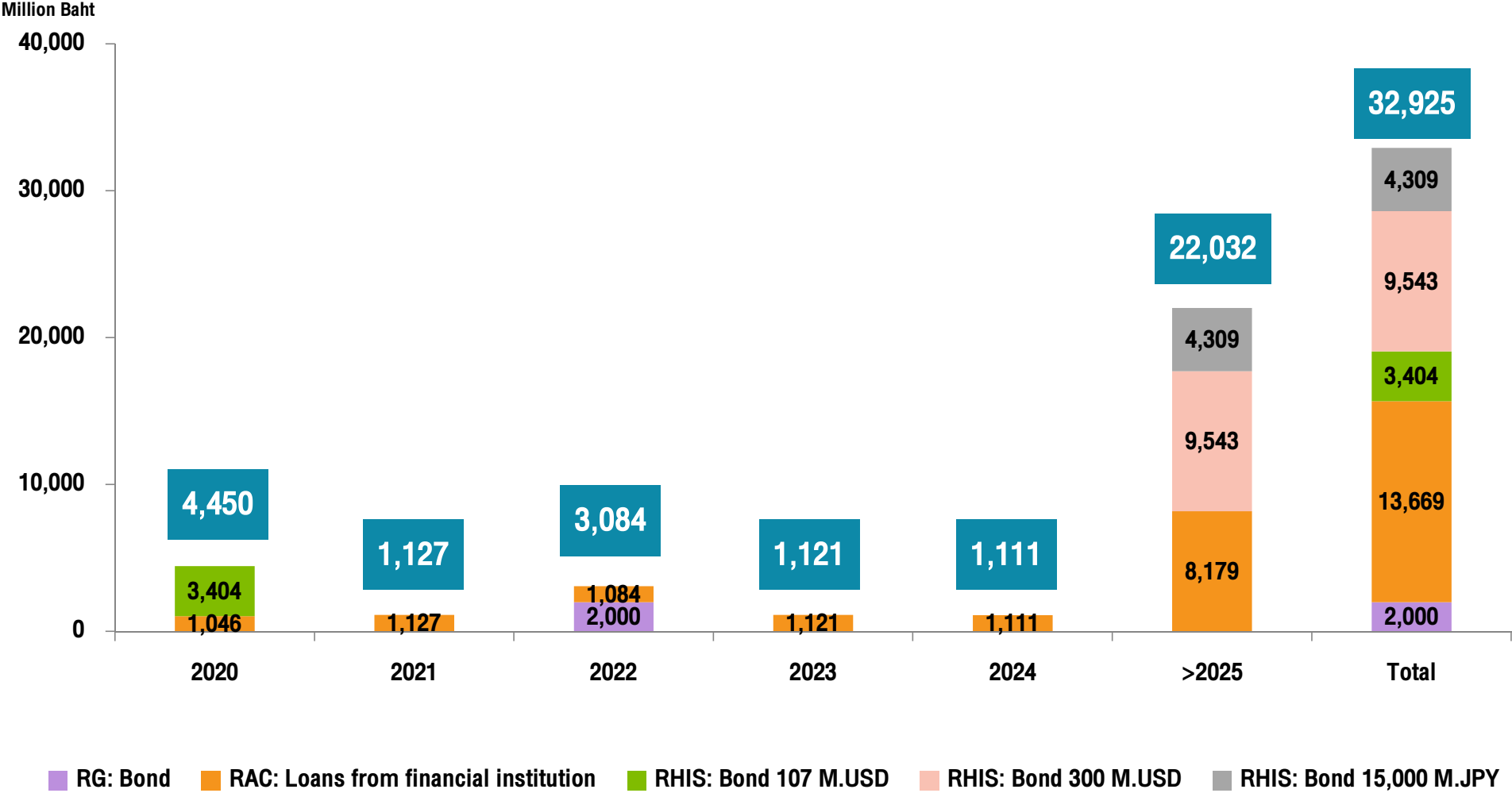


* Not included the effect of foreign exchange rate

** Included the change in lease receivable

Debt Profile

As of March 2019

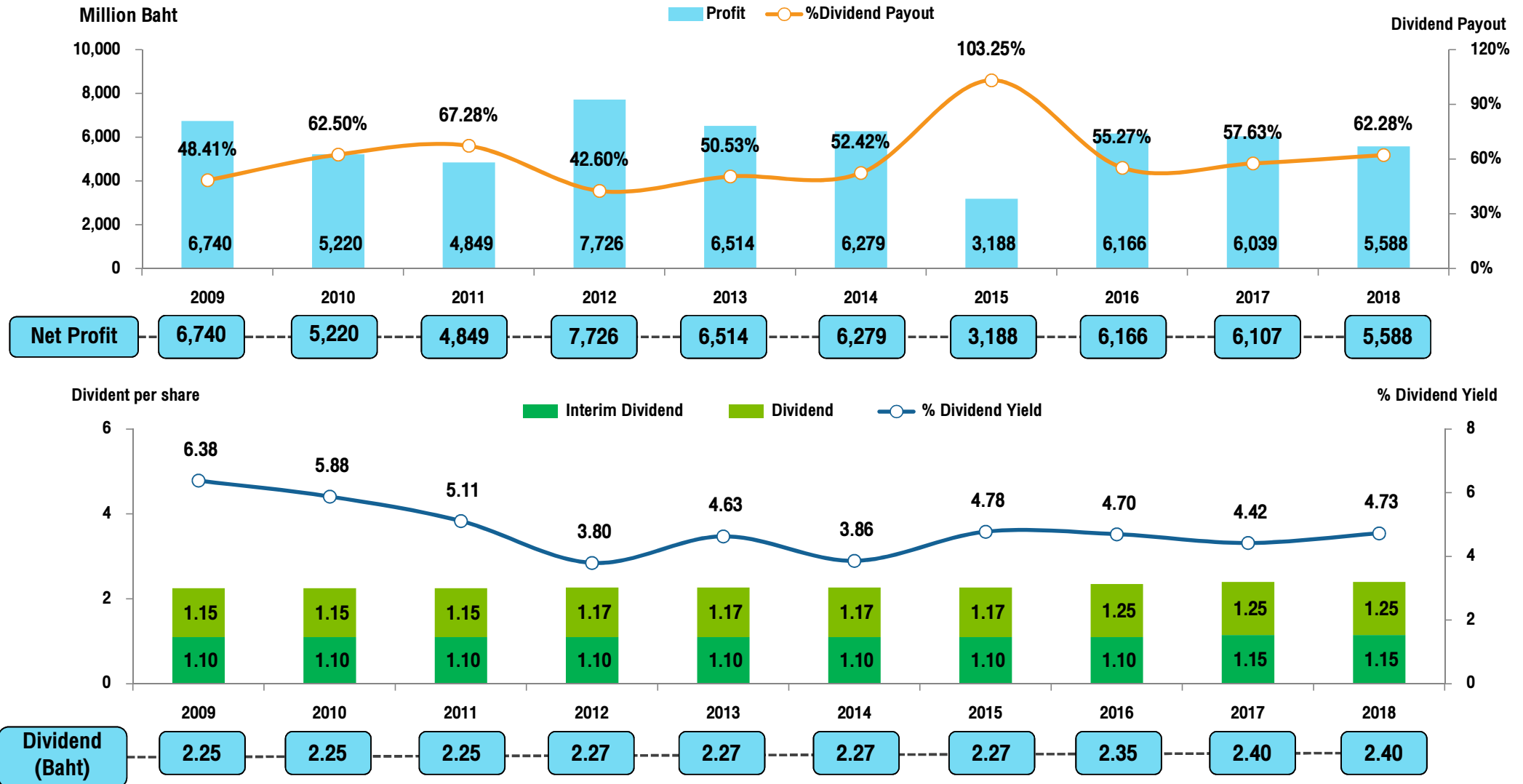


Dividend Policy

RATCH has a dividend payout policy of no less than 40% of the net profit

2009-2018
Avg. %Dividend Payout
60%

2009-2018
Avg. %Dividend Yield
4.83%



Agenda

01 Our Mission & Portfolio

02 Group Performance

03 Financial Performance

04 Appendix

OVERVIEW

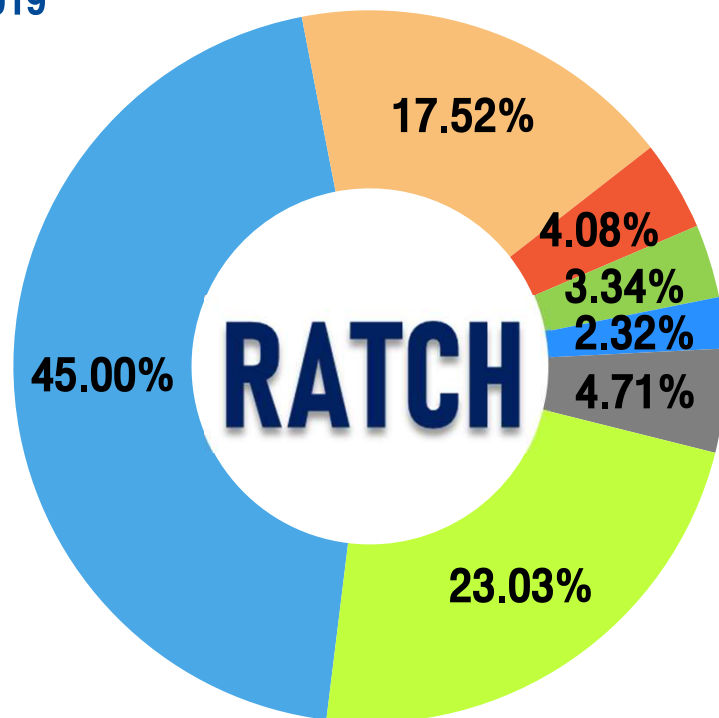
- Listed on the Stock Exchange of Thailand since 2 November 2000
- Investment company in the electricity generation business based in Thailand
- Largest independent power producer (“IPP”) based in Thailand by total capacity
- Primarily involved in the construction, development and operation of power plants in Thailand, Laos, Australia and China
- Market Cap of USD 2,970 million* (THB 92,800 million) as at 19 June 2019

Note: *Foreign Exchange Rate as at 19 June 2019= 31.245 Baht/USD

Credit Rating	S&P Global Rating	Moody's Investor Service
RATCH	BBB+	Baa1
Thailand	BBB+	Baa1

Major Shareholders

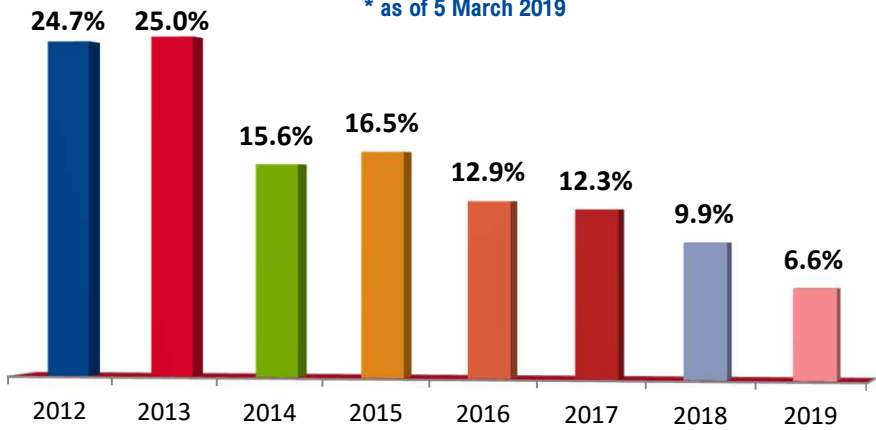
as of 5 March 2019



- Electricity Generating Authority of Thailand
- Thai NVDR Company Limited
- EGAT Saving and Credit Cooperative Limited
- Social Security Office
- SOUTH EAST ASIA UK (TYPE C) NOMINEES LIMITED
- Other Major Shareholders
- Other Shareholders

% Foreign Shareholders

Data are as of AGM closing date in each respective year
* as of 5 March 2019



Remark:
On 17 July 2014, the SILCHESTER INTERNATIONAL INVESTORS LLP transferred its common shares of RATCH by the amount of 157,297,300 shares (equivalent to 10.85% of the Company's common shares) to Thai NVDR Company Limited.

Other Major Shareholders

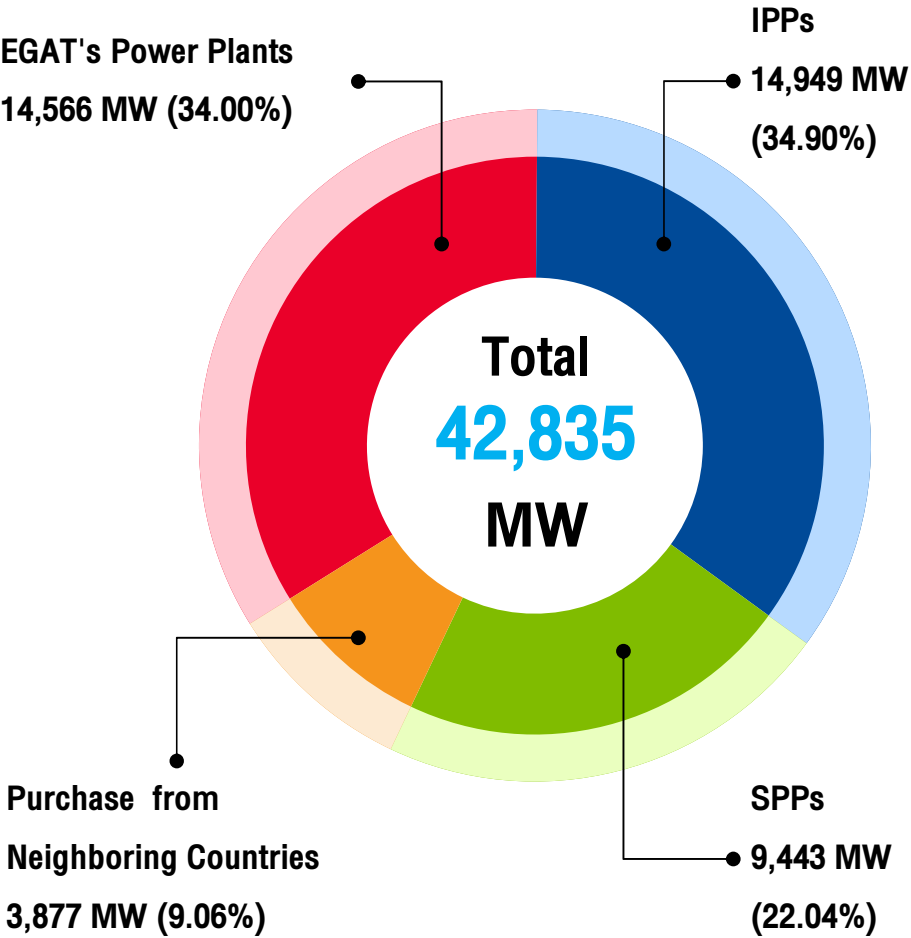
Other Major Shareholders consisted of

- Mr. Min Tieanworn 1.38%
- AIA COMPANY LIMITED - EQ3-P 1.15%
- STATE STREET EUROPE LIMITED 1.14%
- Thanachart Bank Public Company Limited 0.61%
- EGAT Saving and Credit Cooperative Limited Private Fund by Krungthai Asset Management PCL 2 0.43%

Industry Overview

Thailand : Power Generation Total Contracted Capacity “42,835 MW”

As of May 2019

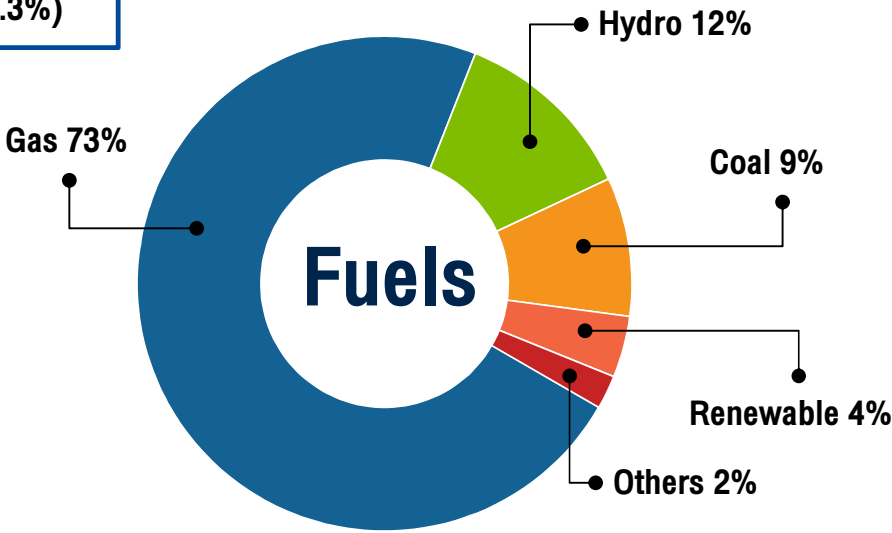


RATCH is the largest IPP in the Thailand

- ▶ RATCH 4,531 MW (30.3%)
- ▶ EGCO 2,337 MW (15.60%)
- ▶ GLOW 1,373 MW (9.20%)
- ▶ GULF 1,280 MW (8.60%)
- ▶ Other 5,427 MW (36.3%)

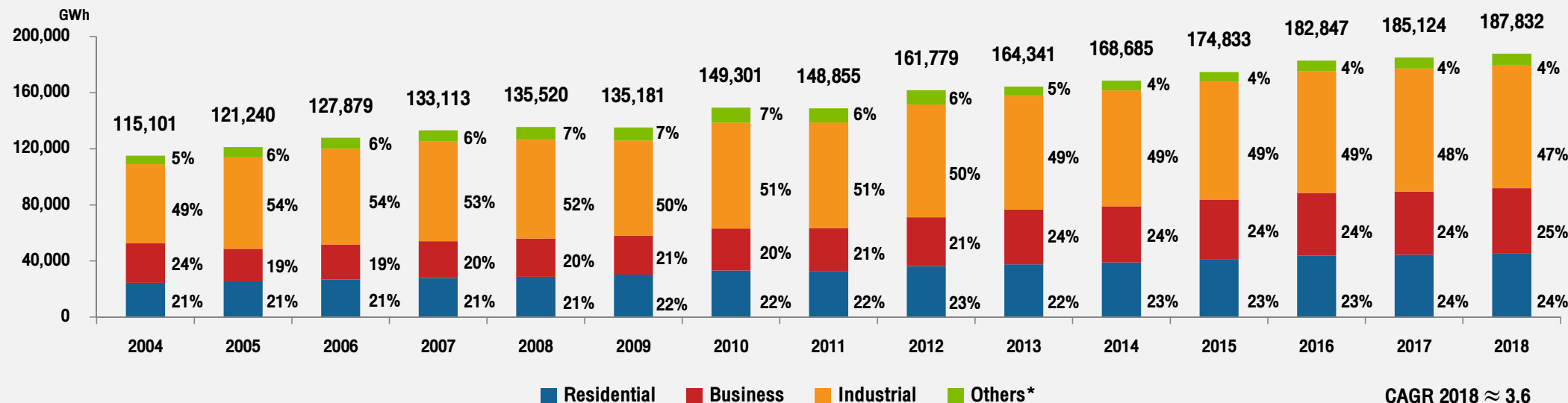


Breakdown by Type of Fuels

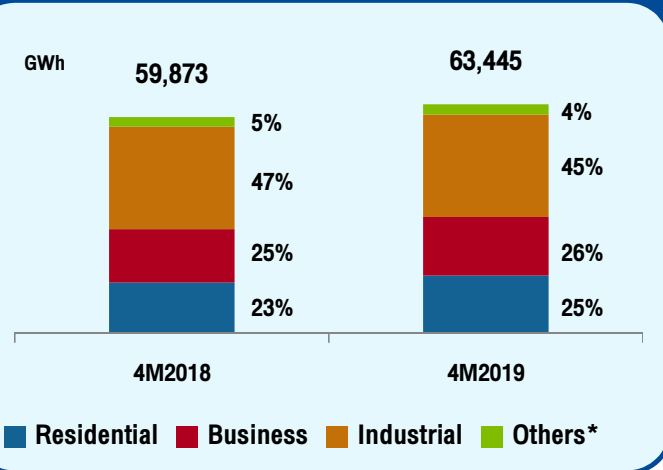


Electricity Consumption

2004-2018

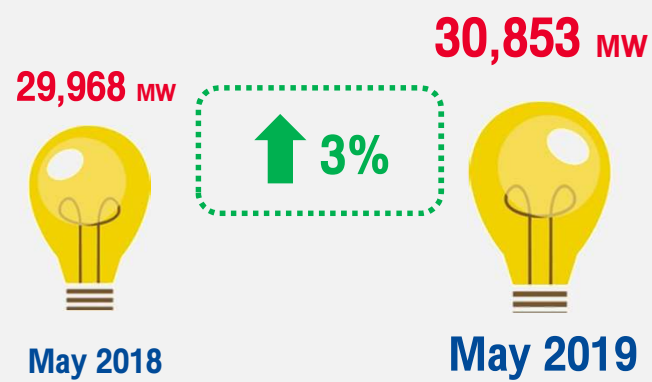


2M2018 & 2M2019



* Others consisted of Agriculture Pumping / Government and Non-Profit / Free of Charge-Public Infrastructure

Peak Demand



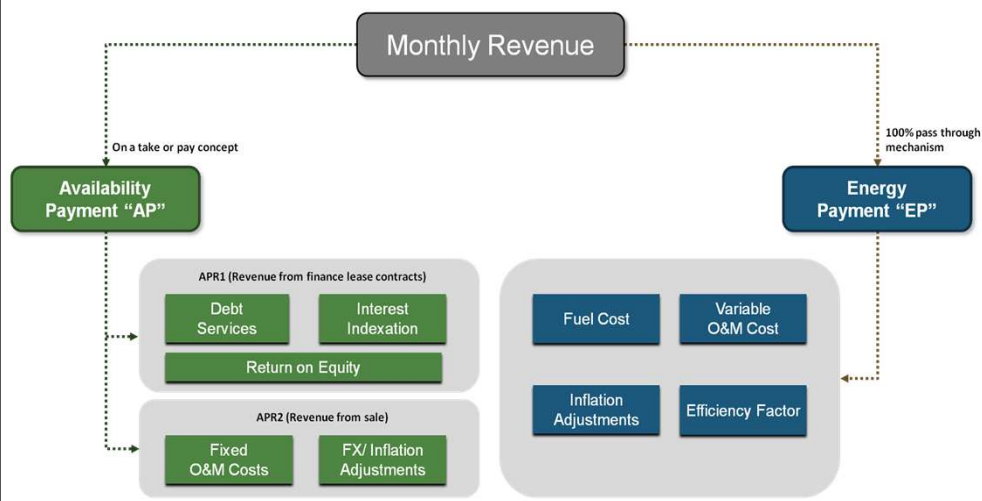
Source: EGAT

Thailand's Electricity Structure

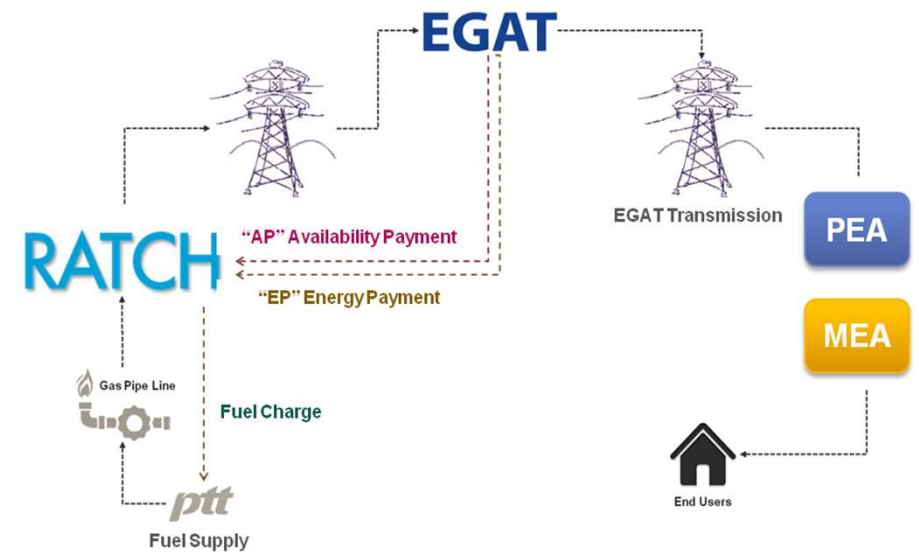
EGAT Overview

- Thailand's state-owned power utility under the Ministry of Energy
- Responsible for electric power generation and transmission for the whole country as well as bulk electric energy sales
- EGAT is the single buyer that purchases bulk electricity from private power producers and neighboring countries
- Sells electricity to Provincial Electricity Authority ("PEA"), Metropolitan Electricity Authority ("MEA"), neighboring countries and others
- Owns and operates a high voltage transmission network which covers all parts of Thailand

PPA Tariff Structure



Thailand's Electricity Structure



Provincial Electricity Authority "PEA"

- ✓ Thai state enterprise under the Ministry of Interior
- ✓ Generation, procurement, distribution and sale of electricity
- ✓ Covers approximately 99.4% of Thailand, with the exception of Bangkok, Nonthaburi and Samut Prakarn provinces



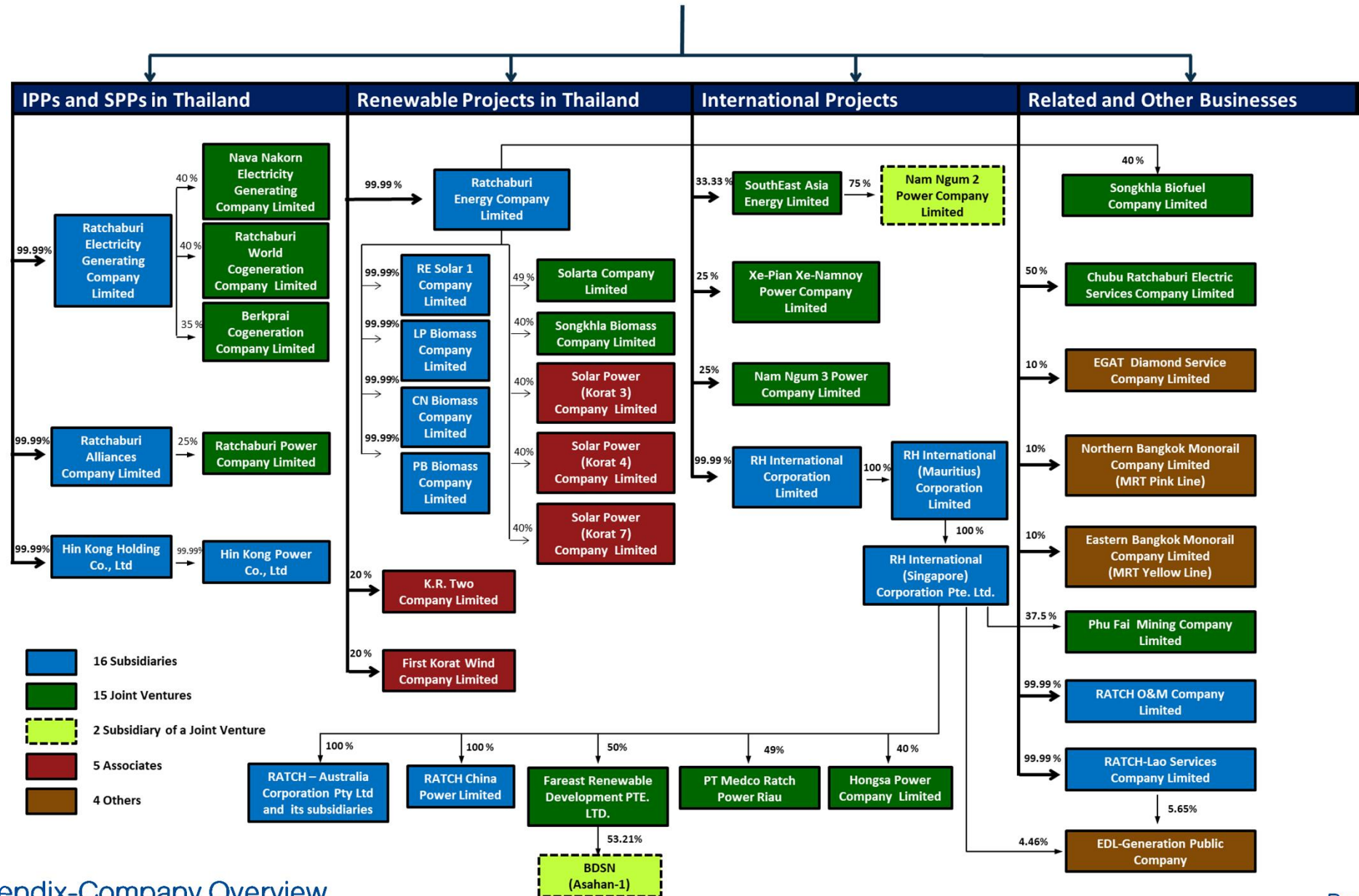
Metropolitan Electricity Authority "MEA"

- ✓ Thai state enterprise under the Ministry of Interior
- ✓ Distribution/Sales of electricity in Bangkok, Nonthaburi, and Samut-Prakarn Provinces

Company Structure



As of May 2019



IPPs and SPPs in Thailand

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Ratchaburi Power Plant	Ratchaburi Province	Thermal	100	1,470	1,470	2000	EGAT	25 years/ 2025	N.A.
		Combined Cycle	100	2,175	2,175	2002	EGAT	25 years/ 2027	N.A.
Tri Energy Power Plant	Ratchaburi Province	Combined Cycle	100	720	720	2000	EGAT	20 years/ 2020	Possibility to extend on mutually agreed terms
Ratchaburi Power Power Plant	Ratchaburi Province	Combined Cycle	25	1,490	372.50	2008	EGAT	25 years/ 2033	N.A.
Ratchaburi World SPP Power Plant	Ratchaburi Industrial Estate, Ratchaburi Province	Cogeneration	40	234	93.60	1#2014 2#2015	EGAT	Block 1: 25 years/ 2039 Block 2: 25 years/ 2040	N.A.

IPPs and SPPs in Thailand

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation (Cont.)									
Nava Nakorn SPP Power Plant	Nava Nakorn Industrial Promotion Zone, Pathumthani Province	Cogeneration	40	139.13	55.65	2016	EGAT	25 years/ 2041	N.A.
Berkprai Cogeneration SPP Power Plant	Ratchaburi Province	Cogeneration	35	99.23	34.73	Expected COD : June 2019	EGAT	25 years/2044	N.A.
Total				6,327.36	4,921.48				
Under Construction									
Nava Nakorn SPP Power Plant (Extension)	Nava Nakorn Industrial Promotion Zone, Pathumthani Province	Cogeneration	40	59.97	23.99	Expected COD : Sep 2020	EGAT	25 years/2045	N.A.
Total				59.97	23.99				
Grand Total				6,387.33	4,945.47				

Renewable Projects in Thailand

Name of Power Plant/Project	Location	Technology	RATCH's stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	PPA Party	Terms of the PPA Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Huay Bong 2 Wind-Turbine Power Plant	Nakorn Ratchasima Province	Wind-Turbine	20	103.50	20.70	2013	EGAT	5 years/ 2023 Adder 3.5 Baht (10-Year)	Automatic renewal for a further 5 years every 5 years
Huay Bong 3 Wind-Turbine Power Plant	Nakorn Ratchasima Province	Wind-Turbine	20	103.50	20.70	2012	EGAT	5 years/ 2022 Adder 3.5 Baht (10-Year)	Automatic renewal for a further 5 years every 5 years
Solar Power Power Plant (Korat 3, Korat 4, Korat 7)	Nakorn Ratchasima Province	Solar Power	40	21.60	8.64	2012	PEA	5 years/ 2022 Adder 8 Baht (10-Year)	Automatic renewal for a further 5 years every 5 years
Solarta Solar Power Plant	Ayutthaya, Nakhon Pathom, and Suphanburi Provinces	Solar Power	49	42.30	20.73	2011-2012	PEA	Ayutthaya : 5 years / 2021 Suphanburi and Nakhon Pathom: 5 years / 2022 Adder 8 Baht (10-Year)	Automatic renewal for a further 5 years every 5 years
Songkhla Biomass Power Plant	Songkhla Province	Thermal	40	9.90	3.96	2015	PEA	20 years/2035	N.A.
Total				280.80	74.73				
Grand Total				280.80	74.73				

International Projects in Australia

Name of Power Plant/Project	Location	Technology	RATCH's stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Townsville Power Plant	North Queensland, Australia	Combined Cycle Gas Turbine	100	234	234	1999	AGL Energy /Arrow	February 2025	N.A.
Kemerton Power Plant (Included Black Start)	Western Australia, Australia	Open Cycle Gas/Diesel Turbine	100	315.20	315.20	2005	Synergy	October 2030	N.A.
BP Kwinana Power Plant (30 % owned by RAC)	Western Australia, Australia	Cogeneration	30	118	35.40	1996	Verve Energy/BP	December 2021	N.A.
Starfish Hill Wind-Turbine Power Plant	South Australia, Australia	Wind-Turbine	100	33	33	2003	Alinta Energy	In 2020	N.A.
Toora Wind-Turbine Power Plant	Victoria, Australia	Wind-Turbine	100	21	21	2002	Merchant Market	N.A.	N.A.
Windy Hill Wind-Turbine Power Plant	Queensland, Australia	Wind-Turbine	100	12	12	2000	Merchant Market	N.A.	N.A.

International Projects in Australia

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Mount Emerald Wind-Turbine Power Plant	Queensland, Australia	Wind-Turbine	100	180.45	180.45	2018	Ergon Energy Queensland	December 2030	N.A.
Collinsville Solar PV Power Plant	Queensland, Australia	Solar Power	100	42.50	42.50	2019	Alinta Energy	12.5 year	N.A.
Total				956.15	873.55				
Under Development									
Collector Wind-Turbine Power Plant	New South Wales, Australia	Wind-Turbine	100	226.80	226.80	Expected 2020	Merchant Market	N.A.	N.A.
Total				226.80	226.80				
Grand Total				1,182.95	1,100.35				

International Projects in Laos

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Nam Ngum 2 Hydroelectric Power Plant	Laos	Hydro Power Plant	25	615	153.75	2011	EGAT	27 years/ 2038	N.A.
Hongsa Thermal Power Plant	Sainyaburi Province, Laos	Lignite-Fired Power Plant	40	1,878	751.20	1# 2015 2# 2016	EGAT & EDL	25 years/ 2040	N.A.
EDL-Generation	Laos	Hydro Power Plant	10.11	1,131.15	114.36	N.A.	N.A.	N.A.	N.A.
EDL-Generation	Laos	Solar Power	10.00	6.00	0.61	2017	N.A.	N.A.	N.A.
Total				3,630.15	1,019.92				
Under Construction									
Xe-Pian Xe-Namnoy Hydroelectric Power Plant	Attapue and Champasak provinces, Laos	Hydro Power Plant	25	410	102.50	Expected COD : Dec 2019	EGAT & EDL	27 years/ 2046	N.A.
Total				410	102.50				
Grand Total				4,040.15	1,122.42				

International Projects in China & Republic of Indonesia

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Asahan-1 Hydroelectric Power Plant	Republic of Indonesia	Hydro Power Plant	26.61	180	47.90	2011	PT PLN (PERSERO)	30 year / 2040	N.A.
			Total	180	47.90				
Under Construction									
Riau Combined-Cycle Power Plant	Republic of Indonesia	Combined Cycle	49	296.23	145.15	Expected COD: May 2021	PT PLN (PERSERO)	20 year	N.A.
Fangchenggang II Nuclear Power Plant	Fangchenggang , China	Nuclear Power	10	2,360	236	Expected COD: 2021	N.A.	30 year	N.A.
			Total	2,656.23	381.15				
Grand Total				2,836.23	429.05				

Infrastructure Projects

Name of Power Plant/Project	Location	Technology	RATCH’s stake (%)	Installed Capacity (MW)	Attributable Capacity (MW)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
Under Construction									
MRT Pink Line Project and MRT Yellow Line Project	Nonthaburi and Bangkok Province	Elevated Straddle Monorail	10	N.A.	N.A.	Expected COD: In 2021	Concession Contracts with MRTA	30 years/2051	N.A.

Infrastructure Projects

Name of Power Plant/Project	Location	Type of Business	RATCH’s stake (%)	Generating Capacity (cubic meters/day)	Attributable Generating Capacity (cubic meters/day)	COD	Terms of the PPA		
							PPA Party	Tenure/ Expiry Year	Renewal/ Option to Extend
In Operation									
Sandin Water Supply Project (Phase 1)	Laos	Generating water supply	40	24,000	9,600	2018	Concession Contracts with Nampapa Nakhone Luang	50 years	N.A.
Total				24,000	9,600				
Under Development									
Sandin Water Supply Project (Phase 2)	Laos	Generating water supply	40	24,000	9,600	Expected COD: In 2031	Concession Contracts with Nampapa Nakhone Luang	50 years	N.A.
Total				24,000	9,600				
Grand Total				48,000	19,200				

Planned Outage at Ratchaburi Power Plant in 2018

Plant		Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
RG	CCST-10												
	CCGT-11											MO (52D)	25
	CCGT-12											MO (52D)	25
RG	CCST-20												
	CCGT-21									30	CI (9D)	8	
	CCGT-22									30	CI (9D)	8	
RG	CCST-30												
	CCGT-31		11	CI (15D)	25								
	CCGT-32		11	CI (19D)	1								
RG	Thermal-1												
RG	Thermal-2												
RG	CCST-10 - CCTE												
	CCGT-11 - CCTE												CI (20 D)
	CCGT-12 - CCTE									22	CI (12 D)	3	5
RPCL	CCST-10												
	CCGT-11											CI (14D)	3
	CCGT-12											CI (14D)	3
RPCL	CCST-20	14	MI (35 D)	17									
	CCGT-21	14	MI (35 D)	17									
	CCGT-22	14	MI (35 D)	17									
Thermal Plant		Minor Inspection (MI)			40 Days		Major Overhaul (MO)			57 Days			
Gas Turbine		Warranty Inspection (WI)					Combustion Inspection			Minor Inspection		Major Overhaul	
		Normal (WI)		Gen.Rotor Removed (WI*)			(CI)			(MI)		(MO)	
		26 Days		32 Days			15 Days			30 Days		52 Days	
Steam Turbine		Warranty Inspection (WI)					Minor Inspection			Major Overhaul		Page 39	
		Normal (WI**)		Gen.Rotor Removed (WI*)			(MI)			(MO)			
		26 Days		30 Days			26 Days			49 Days			

Actual Outage
Planned Outage

Planned Outage at Ratchaburi Power Plant in 2019

Plant		Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
RG	CCST-10											24	MI (26D) 19
	CCGT-11												CI (15D) 19
	CCGT-12												CI (15D) 19
RG	CCST-20							1	MI (26D) 26				
	CCGT-21						6	MO (52D) 26					
	CCGT-22						6	MO (52D) 26					
RG	CCST-30	2	MI (26D) 27										
	CCGT-31	13	CI (15D) 27										
	CCGT-32	13	CI (15D) 27										
RG	Thermal-1								1	MO (57D) 27			
RG	Thermal-2										3	MO (57D) 29	
RG	CCST-10 - CCTE												
	CCGT-11 - CCTE										19	CI (9D) 28	
	CCGT-12 - CCTE											9	CI (9D) 18
RPCL	CCST-10												
	CCGT-11										20	MO (33D) 21	
	CCGT-12										20	MO (33D) 21	
RPCL	CCST-20												
	CCGT-21	3	CI (13D) 15										
	CCGT-22	3	CI (13D) 15										

Thermal Plant	Minor Inspection (MI)	40 Days	Major Overhaul (MO)	57 Days		
Gas Turbine	Warranty Inspection (WI)		Combustion Inspection		Minor Inspection	Major Overhaul
	Normal (WI)	Gen.Rotor Removed (WI*)		(CI)	(MI)	(MO)
	26 Days	32 Days		15 Days	30 Days	52 Days
Steam Turbine	Warranty Inspection (WI)		Minor Inspection		Major Overhaul	
	Normal (WI**)	Gen.Rotor Removed (WI*)		(MI)	(MO)	
	26 Days	30 Days		26 Days	49 Days	

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