

Thailand Focus 2023

"The New Horizon"



Starfish Wind Farm, South Australia

23 August 2023



●●● Agenda

1 RATCH Overview

2 Sustainability

3 Project Progress

4 Appendix





RATCH Overview



Business Strategies

Vision

To become a leading value-oriented energy and infrastructure company in Asia Pacific.

Mission

To ensure shareholders' value creation through financial return sustainably generated by accountability for environment, society and good governance.

To achieve operational excellence and enhance competitiveness.

To adhere fair business conduct and strict compliance to relevant laws and regulations.

To raise employees' awareness and motivation of self-development for readiness in competition and business changing.

To support security of national power grid and infrastructure system.

To explore potential opportunities and new alternatives in energy-related and other non-power businesses to generate growth and business expansion for shareholders.



Corporate Value

Triple S Strategy



STRENGTH

Efficient operations geared towards worthwhile revenue and returns and strong foundation for excellence.



SYNERGY

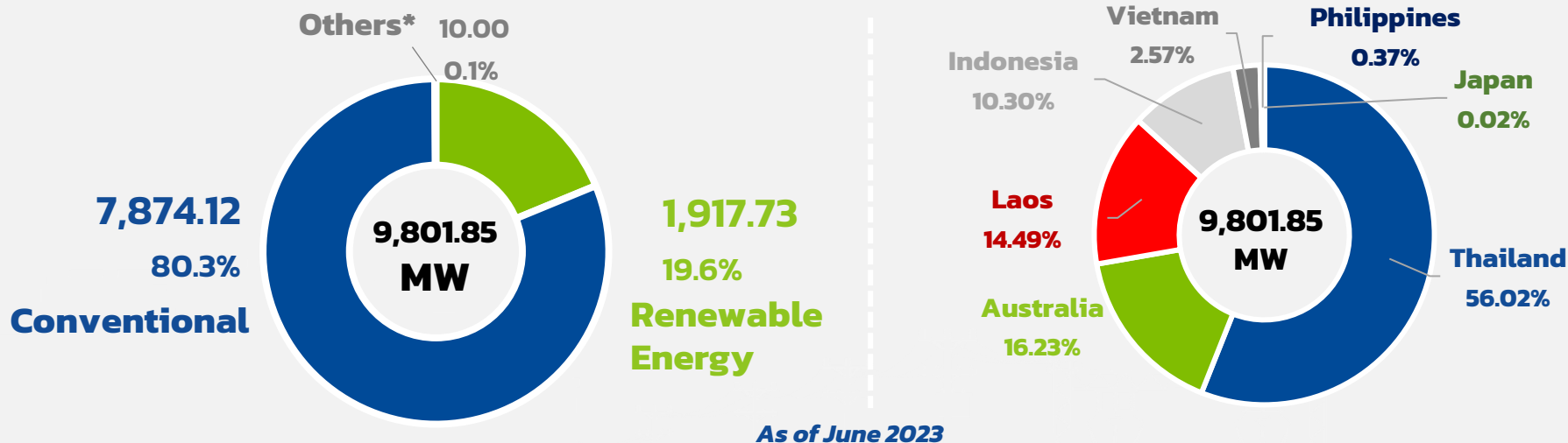
Integrated operations with extended collaboration with leading partners in Thailand and abroad




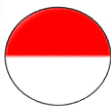












SUSTAINABILITY

Promoting renewable energy with concerns about environmental and social stewardship and governance for sustainable growth.

RATCH's Power Plant Portfolio



							
	Thailand	Australia	Laos	Indonesia	Vietnam	Philippines	Japan
Total MW	5,491.10 MW	1,590.89 MW	1,420.30 MW	1,009.72 MW	251.49 MW	36.33 MW	2.02 MW
Conventional	5,396.34 MW	703.20 MW	751.20 MW	886.67 MW	136.71 MW		
Renewable Energy	94.76 MW	877.69 MW	669.10 MW	123.05 MW	114.78 MW	36.33 MW	2.02 MW
							

*Battery 10 MW in Australia

● ● ● Nexif Energy Portfolio

Project Locations

Overseas

Vietnam



353.6 MW

Operation 34.5

Construction 25.1

Development 294.0

Domestic

Thailand



55.0 MW

Operation 50.0

Development 5.0

Overseas

Philippines



289.2 MW

Construction 21.8

Development 267.4

Overseas

Australia



818.0 MW

Operation 366.0

Construction 10.0

Development 442.0

Total 1,515.8 MW

Operation 450.5

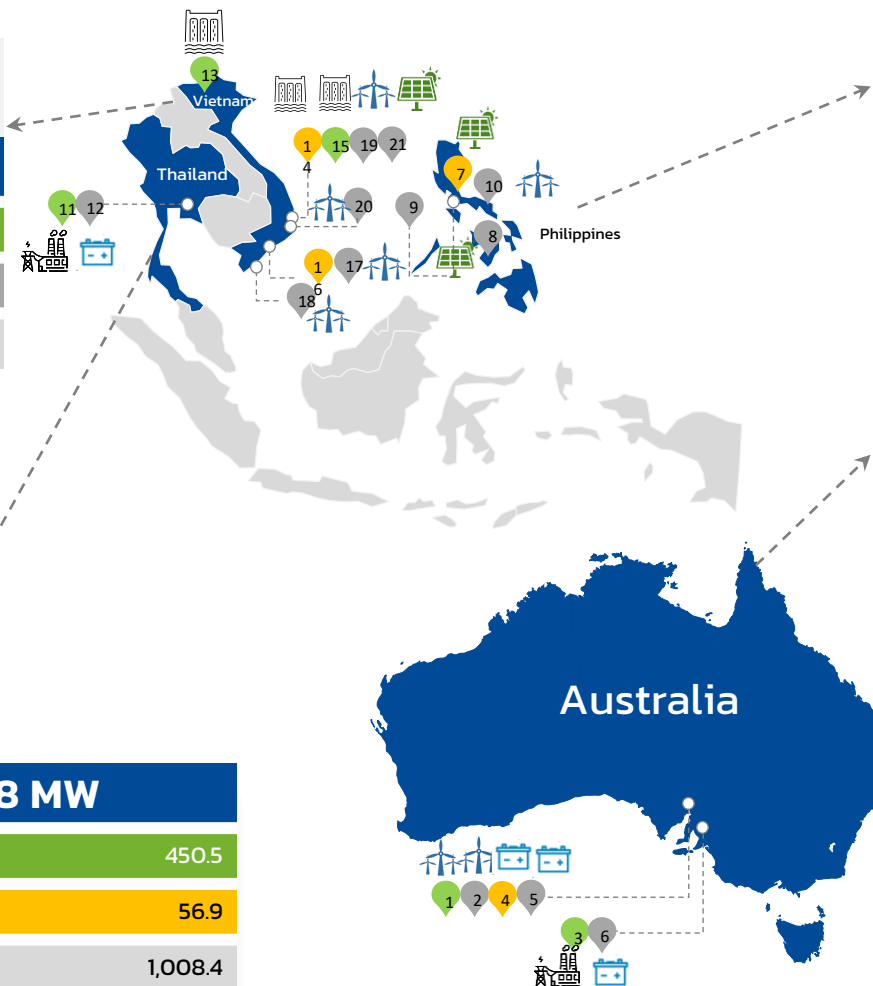
Construction 56.9

Development 1,008.4

Including in the
committed capacity
(9,801.85 MW)

Deal Completion: December 2022

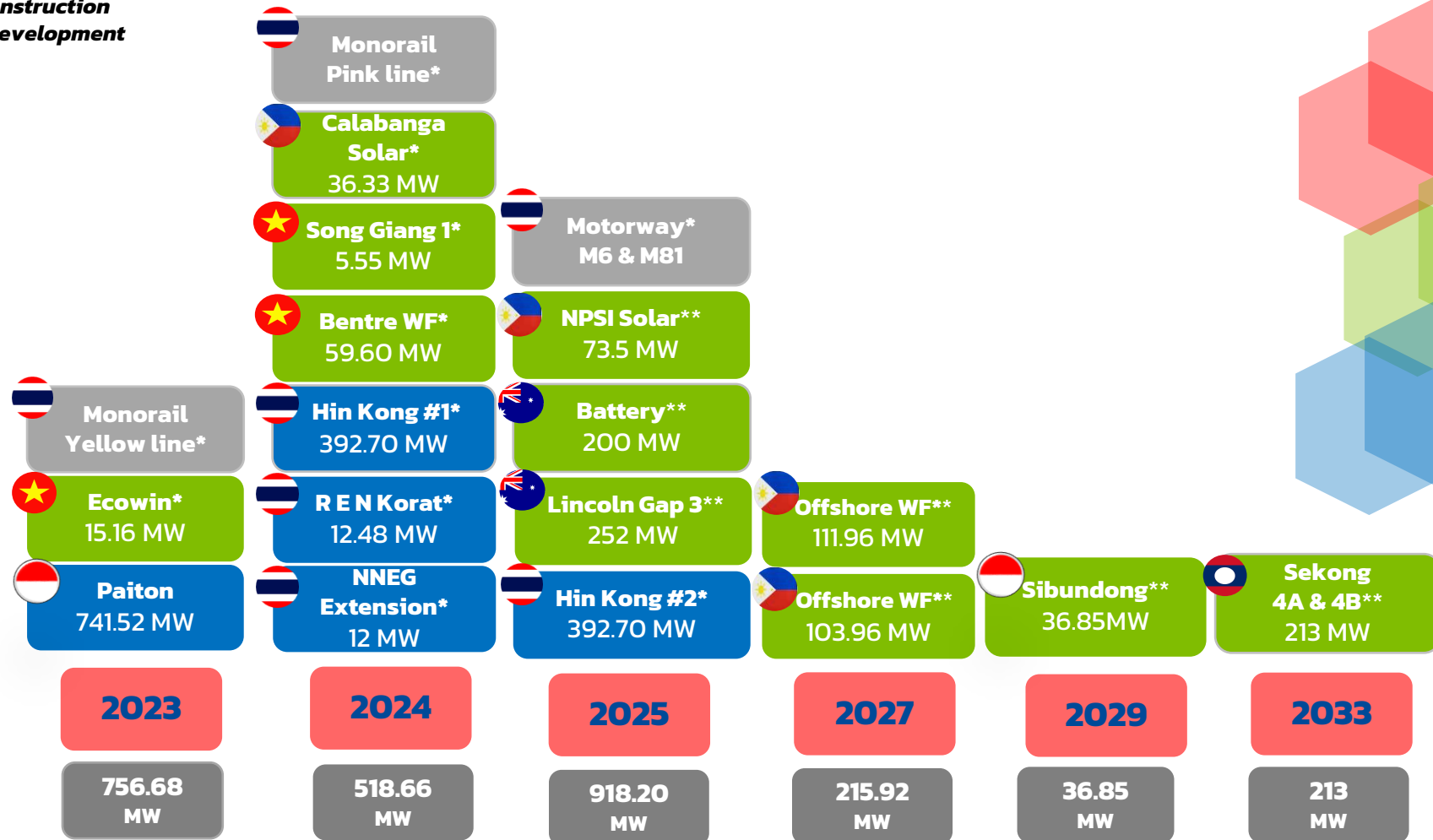
Acquisition value: 605 mUSD (equivalent to approx. 21,470.42 million Baht.)



Capacity Growth

*** Under Construction**

**** Under Development**

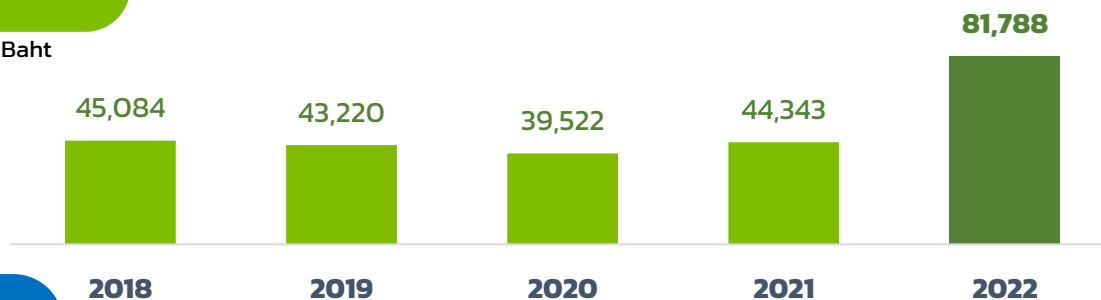


Business Highlights

5-Year Growth

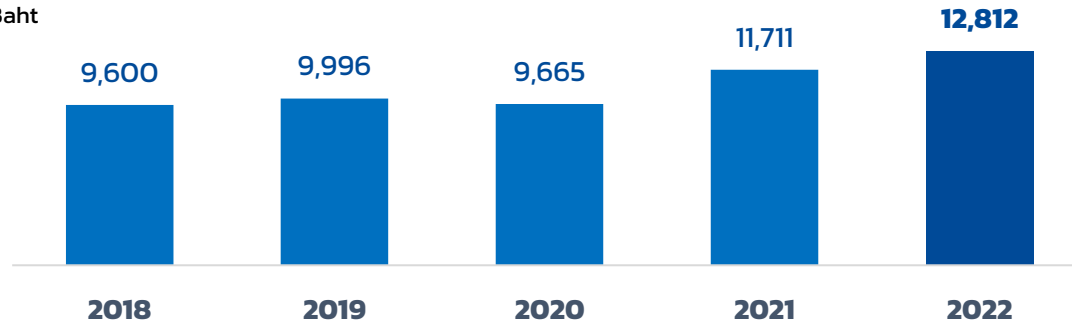
Revenue

Unit: Million Baht



EBITDA

Unit: Million Baht



Dividend Yield & Dividend Payout

Dividend Yield (%)	4.42	3.98	4.73	5.62	4.21
Dividend Payout (%)	62.28	58.36	55.36	46.36	60.19
	2018	2019	2020	2021	2022

Business Highlights

For the Period of 1H23

Finance Performance
(6 Months)

EBITDA

7,798 Million Baht (+11.8% YoY)

Normal Profit

3,437 Million Baht (+1.6% YoY)

Net Profit

3,573 Million Baht (-5.4% YoY)

Financial Position
as of
30 June 2023

Assets

228,905

Million Baht

Liabilities

118,832

Million Baht

Equity

110,073 Million Baht

Financial
ratios

Debt to Equity

(times)

1.08

ROE (%)

5.81

Total Revenue

30,137

Million Baht

Power Business

29,035

Million Baht
(96%)

Non-Power Business

1,102

Million Baht
(4%)

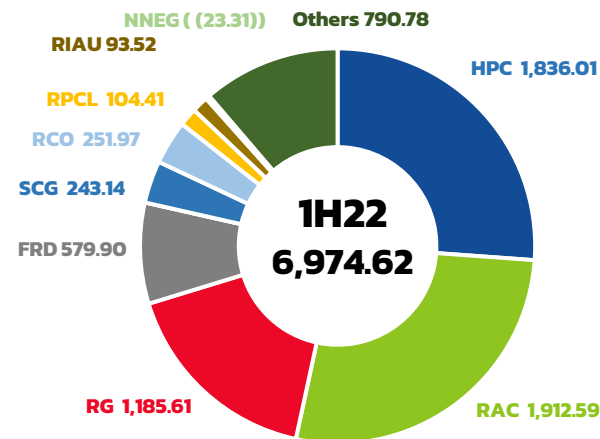
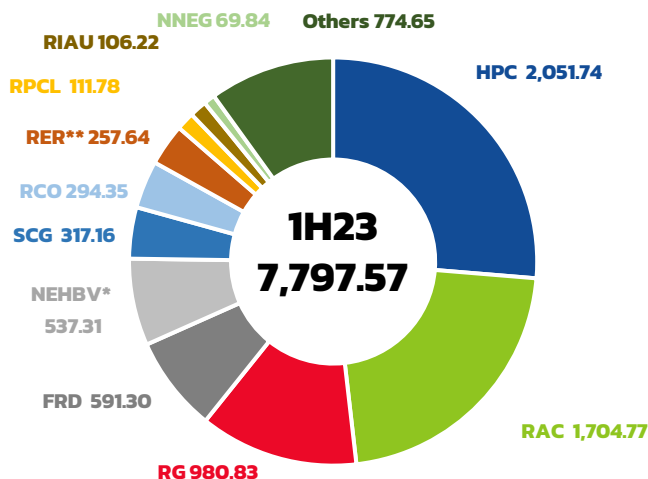
Revenue
Generating
from
Renewable
Power Plants
13%

Revenue
Generating
from
Conventional
Power Plants
87%

Business Highlights

EBITDA

Unit: Million Baht



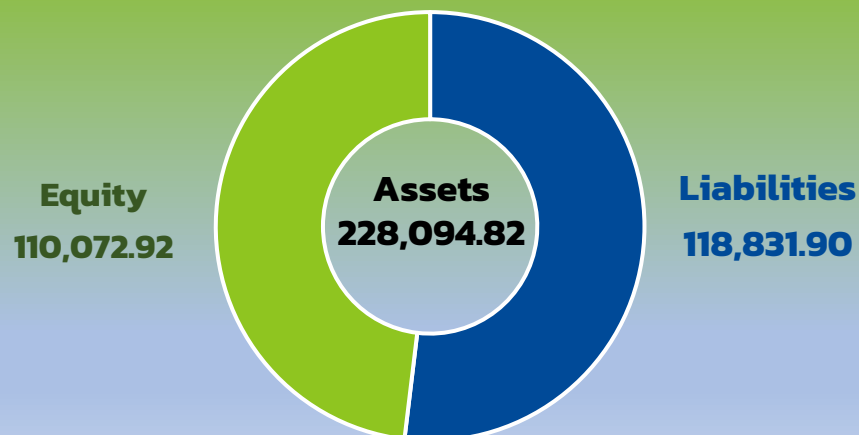
* NEHBV: Nexif Energy Holding B.V.

** RER: RATCH Energy Rayong Co., Ltd. has changed the name from Nexif Ratch Energy Rayong Co., Ltd.

Financial Position

As of 30 June 2023

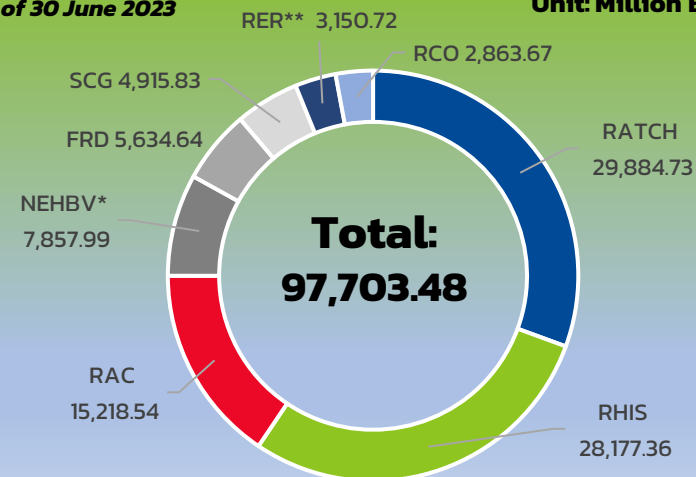
Unit: Million Baht



Interest Bearing Debt

As of 30 June 2023

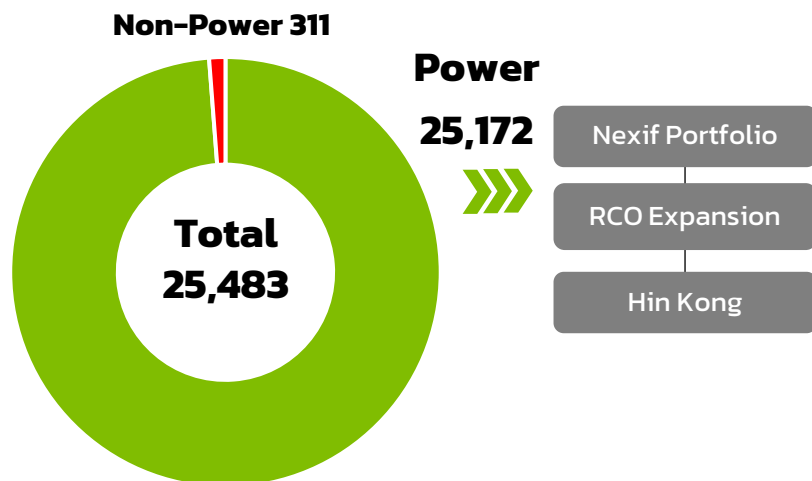
Unit: Million Baht



Capital Expenditure

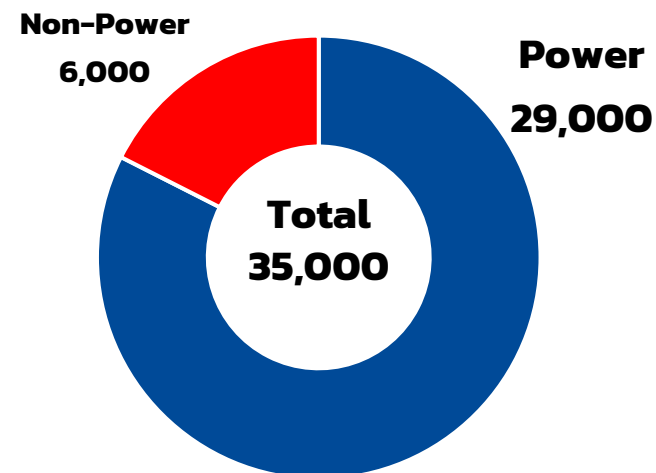
2022

Unit: Million Baht



2023

Unit: Million Baht



● ● ● Achievements

RATCH has won “Best Value Creation Energy Infrastructure Company APAC 2023” Award from CFI.co Magazine



Each year, CFI.co seek out organizations that **contribute significantly to the convergence of economies and truly add value for all stakeholders.**

CFI.co realizes that best practice is to be found throughout the world, and the Awards Program aims to identify and reward excellence wherever it is found in the hope to inspire others for further improvement.

CFI.co (Capital Finance International):

a renowned print journal and online resource reporting on business, economics and finance, recognizes that the traditional distinction between emerging and developed markets is now far less meaningful as world economies.

●●● Achievements

- **Sustainability Disclosure Award 2022 for 4 consecutive years**
- **"Best" 2022 Corporate Governance Report** of Thai Listed Companies (CGR) organized by the Thai Institute of Directors Association (IOD) and the Stock Exchange of Thailand, **15 consecutive years**
- **ASEAN CG Scorecard Virtual Awards 2021**
- **Full score in the evaluation of Annual Shareholders General Meeting's quality** in 2022 conducted by the Thai Investors Association
- **Listed in the 2022 Thailand Sustainability Investment (THSI)** by the Stock Exchange of Thailand for **8 consecutive years**
- **Miss Choosri Kietkajornkul**, Chief Executive Officer, was granted **"Outstanding Commerce and Accountancy, Chulalongkorn Alumnae Year 2022"** from Faculty of Commerce and Accountancy Alumni Association, Chulalongkorn University. •
- **Mrs. Wadeerat Charoencoop**, Chief Finance Officer, was granted **"Asia's Greatest CFO Award 2022 – 2023"** which was granted for outstanding executives from 1,200 companies in 16 industrial sectors in Asia.

2021 ASEAN Corporate Governance Scorecard (ACGS) – ASEAN ASSETS CLASS





Sustainability





Vision

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

3 Pillars



Values for Environmental



Values for Society



Values for Economic

Material Issues

Climate Change

Carbon Neutrality by 2050

- **2025**, increase renewable capacity by **25%**
- **2030**, reduce carbon intensity by **15%**

Community Engagement

- Improve the Company Group's CSR activities and expand to **national level** and support SDGs by **2030**

Human Rights

- Zero Human Rights Violation

Supply Chain Management

- Complete ESG audit (**100%**) on high-risk suppliers and evaluate its ESG performance

Customer Relations

- **Set 90%** satisfaction score from all customer groups in **2026**

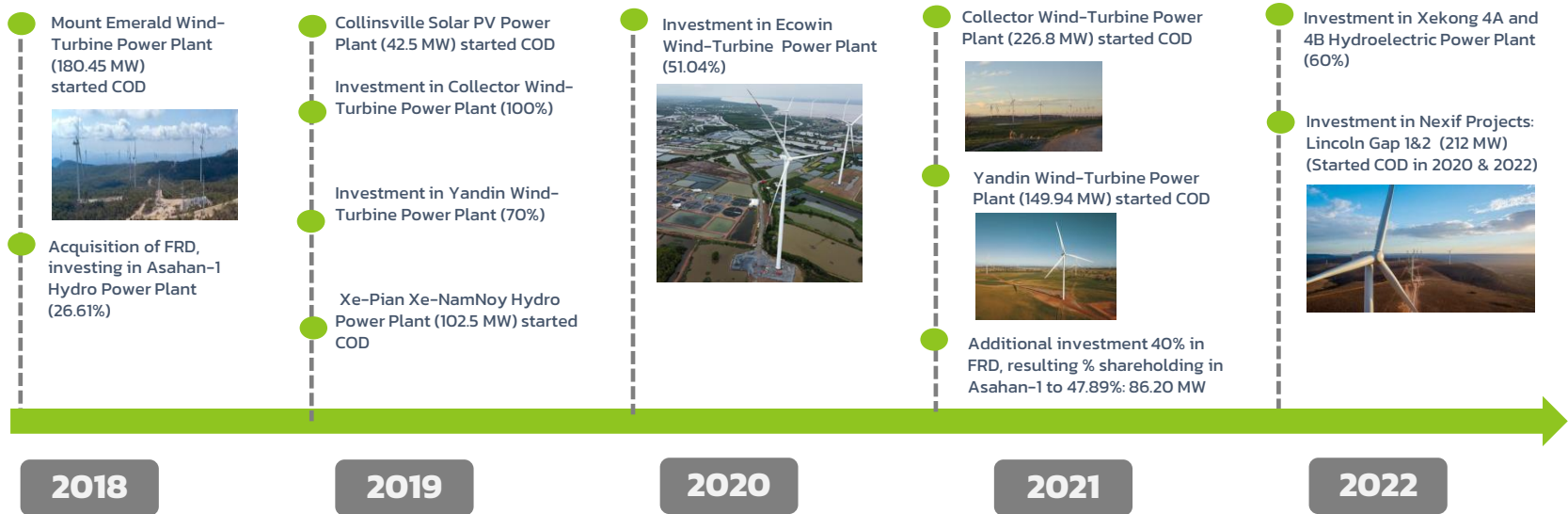
Foundation

Risk Management/Human Resources Management/Business Ethics/Innovations

Roadmap to Carbon Neutrality



Green Business Growth



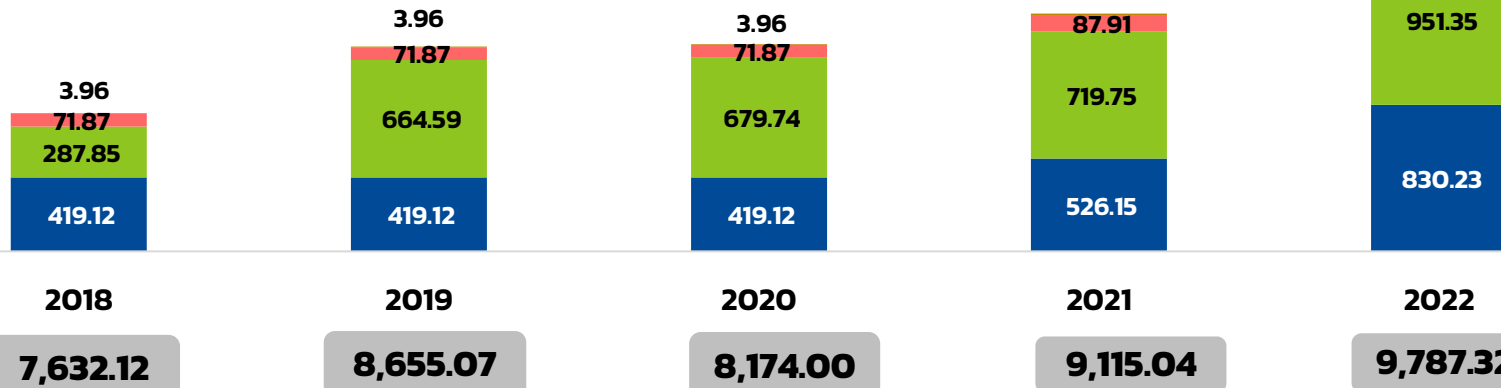
Unit : MW

■ Hydro ■ Wind ■ Solar ■ Biomass

CAGR = 19.6%

782.80

1,917.73



Solarist Thungfai Company Limited, a subsidiary of Sahacogen (Chonburi) Public Company Limited (SCG), has secured **27 MW (in Lampang)** of the renewable energy purchase in Feed-in Tariff (FIT) for the period 2022 – 2030 from Energy Regulatory Commission (ERC).

Sahacogen Green Company Limited, a subsidiary of SCG, has installed **solar rooftop for PRINC hospitals**.



PRINC Solar Rooftop 9 projects:

Project	Installed Capacity (kW)	COD
PRINC – Lumphun	268.14	May 2023
PRINC – Sisaket	196.20	May 2023
PRINC – Sakon Nakhon	218.00	Sep 2023
PRINC – Uttaradit	234.35	Sep 2023
PRINC – Uthai Thani	109.00	Sep 2023
PRINC – Phitsanulok	221.27	Sep 2023
PRINC – Ubon Ratchathani	172.22	Nov 2023
PRINC – Phichit	196.20	Nov 2023
PRINC – Chumphon	69.76	Nov 2023

● ● ● Sustainability Achievements



Succeeded in green loans for refinancing of **4 renewable projects** in Australia and Indonesia, granted the "**Refinance Deal of the Year**" **Award by IJGlobal Awards 2022**



AUD 495 million green loans for refinancing of **3 renewable power plants** in Australia namely;
226.8-MW **Collector** Wind Power Plant,
180.5-MW **Mount Emerald** Wind Power Plant
42.5-MW **Collinsville** Solar Power Plant.

Under RATCH Group **Green Finance Framework** corresponding to the **Green Bond Principle of International Capital Market Association** and the **Green Loan Principle of Loan Market Association**.

Concurrently, the Indonesia-based 180-MW Asahan-1 hydroelectric power plant was presented "**Refinance Deal of the Year – Hydropower**" of the **IJGlobal Awards 2022**.





Project Progress



Power Business (Under Construction)

Hin Kong Power Plant Unit 1&2

785.40 MW
(51%)

90.10%
Completion
(As of Jun 2023)



Attributable Capacity:
785.40 MW (51%)



Located in Ratchaburi
Province



25-Year PPA with EGAT



Signed Financial Agreement
31 Mar 2022



Financial Close: 19 August 2022
(CP Completion & UR Submission)



First Drawdown:
29 August 2022



Expected COD:
• **Unit 1: 2024**
• **Unit 2: 2025**

Project Progress



Power Business (Under Construction)

Ecowin Wind-Turbine Power Plant

15.16MW
(51.04%)



96.77%
Completion
(As of Jun 2023)



Attributable Capacity:
15.16 MW (51.04%)



20-Year PPA with EVN



On-shore wind farm located
in Ben Tre Province, approx.
160 km from the south of Ho
Chi Minh City, Vietnam



Expected COD: 3Q23



SPP **Power** **Business**

R E N Korat (IPS)

(Under Construction)

Attributable Capacity
12.48 MW (40%)



- Nakhon Ratchasima province
- EPC signed and NTP: October 2022
- Started construction : November 2022
- Completion: **29.65%**
- **(As of Jun 2023)**
- Expected COD: 2024

Navanakorn Phase 3 Expansion

(Under Development)

Attributable Capacity
12 MW (40%)



- Pathumthani Province
- Construction period: 18 months
- Expected COD: 2024

Power Business (Under Development)



Xekong 4A and 4B Hydroelectric Power Plant

Attributable Capacity 213 MW (60%)




Sibundong Hydroelectric Power Plant

Attributable Capacity 36.85 MW (50%)




Other Business Partner

-  Xekong Province, Lao PDR
- **Completed Basic Design**
- **Preparing for PPA Negotiation with EGAT & CA Negotiation with Lao Government**
- **Expected COD: 2033**



Through

FRD*

-  Sibundong River, North Sumatra Province, Indonesia
- **Technology: Run-of-River**
- **Total investment: USD 13.89 million**
- **Updating Feasibility Study and to be completed by 3Q23**
- **Expected COD: 2029**

● ● ● Project Progress: Nexif Project

Song Giang 1 Hydro



Plant

12 MW

Ownership

46.23%

Location

Khanh Hoa, Vietnam

Technology

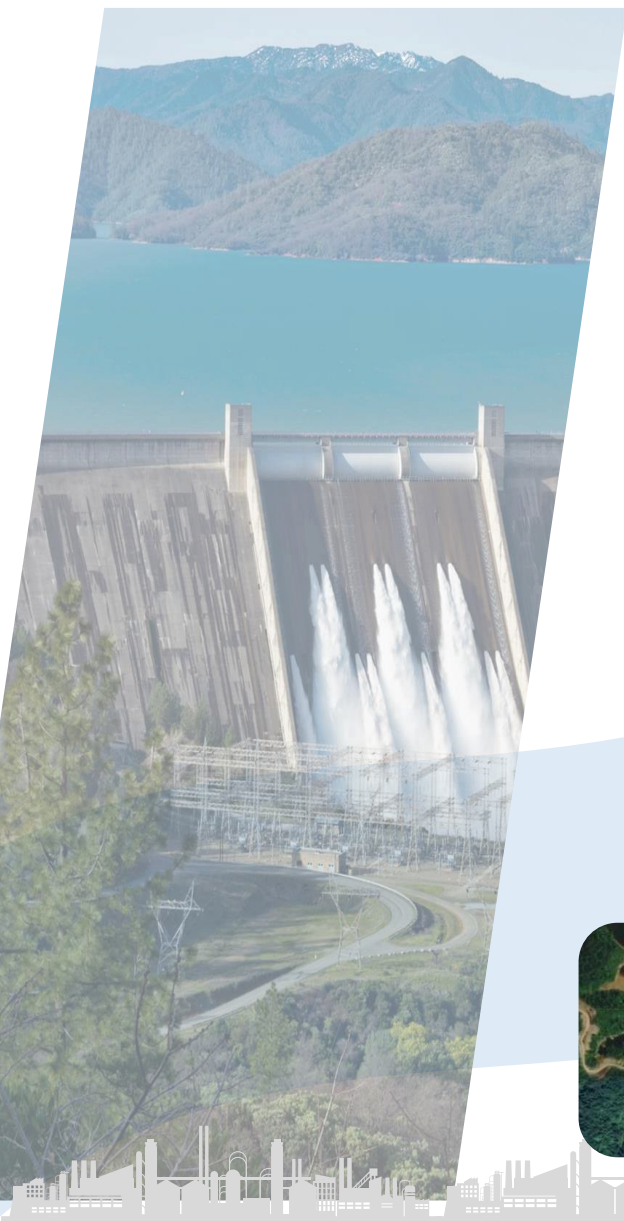
Run-off river with peak storage (5hr)

Status

Under construction

COD

2024



● ● ● Project Progress: Nexif Project

Calabanga Solar



Plant Capacity

74.14 MW

Ownership

49%

Location

Camarines Sur Province,
South Luzon, The Philippines

Technology

PV Solar Panel System

Status

Completed Financial loan deal in June 2023
Completion (As of June 2023) : 2.25%

COD

2024



● ● ● Project Progress



MRT Yellow line has officially started the operation on **July 3, 2023.**



Routes

Lad Prao-Sam Rong,
30.4 km. 23 Stations

Concession Period

30 Years from COD

Concessioner

**Mass Rapid Transit
Authority of Thailand**

RATCH's stake

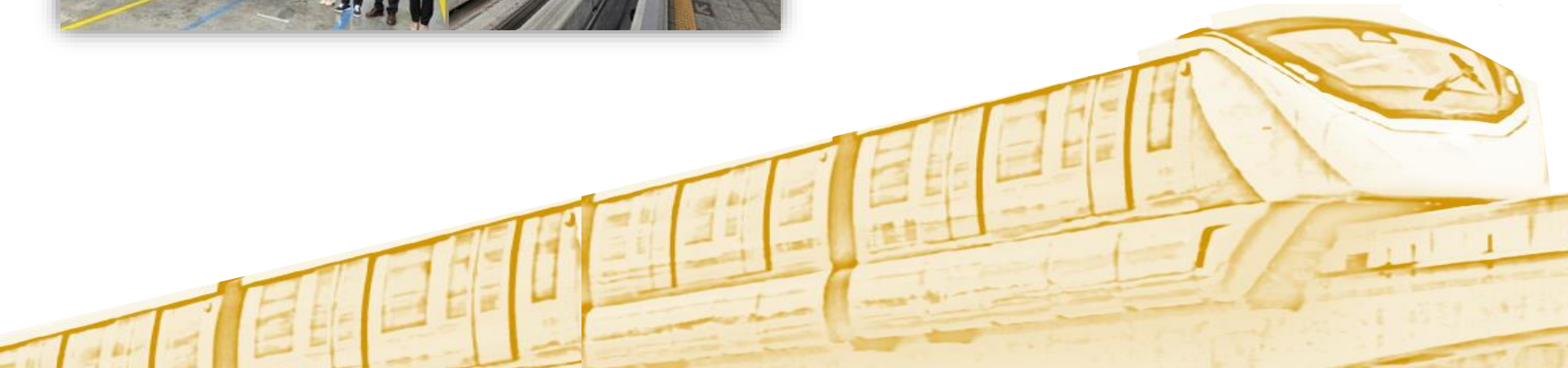
10%

Trial Run

19 June 2023

COD

3 July 2023



Infrastructure Business

Pink Line Monorail Project



1

Routes

Khae Rai–Min Buri, 34.5 km. 30 Stations

2

Concession Period

30 Years from COD

3

Concessioner

Mass Rapid Transit Authority of Thailand

4

RATCH's stake

10%

Detail	Pink Line (NBM)
NTP	29 June 18
Construction Duration	5 Years 2 months
Contract Term	30 �
COD	2024
Progress (As of June 2023)	Civil Works= 96.97% M&E Systems = 97.34% Overall = 97.15%



Infrastructure Business

Pink Line Extension



- | | | |
|---|--------------------------|--|
| 1 | Routes | Sirat Station to Muang Thong Thani Station (2.8 km) |
| 2 | Concession Period | 30 Years from COD |
| 3 | Concessioner | Mass Rapid Transit Authority of Thailand |
| 4 | RATCH's stake | 10% |

Detail	Pink Line Extension (NBM)
NTP	29 June 18
Construction Duration	5 Years 2 months
Contract Term	30 �
COD	2024
Progress (As of June 2023)	Civil Works= 30.47% M&E Systems = 14.43% Overall = 25.08%



Infrastructure Business

Intercity Motorway



**Bang Pa-In –
Nakhon Ratchasima**
M6 (196 km)

**Bang Yai-
Kanchanaburi**
M81 (96 km)



Investment Type

Expected COD

PPP Gross Cost

1Q2025

Scope of work:

Phase 1: Design & Construction (3 Years: starting in December 2021)

- Toll Collection System
- Traffic Management and Control System
- Other Infrastructure

Phase 2: O&M (30 Years)



Project Update

- PPP for O&M Contracts signed in September 2021
- Credit Facilities Agreement signed in January 2022



M6



M81





Appendix



Income Statement : 2Q23 & 2Q22

Unit : in Million Baht	2Q23	2Q22
Revenues	13,132.60	18,449.70
Costs & Expenses	(9,035.66)	(14,469.72)
EBITDA	4,096.94	3,979.98
Depreciation & Amortization – Cost*	(922.48)	(696.88)
Depreciation & Amortization – Admin	(67.95)	(53.63)
EBIT	3,106.51	3,229.46
Finance costs	(1,000.68)	(751.00)
Gain (loss) on fair value adjustment of derivatives	45.45	78.92
Income tax expense	(238.58)	(266.10)
Profit for the period	1,912.72	2,291.27
Non-controlling interests	(99.99)	(74.06)
Profit for the period: Equity holders of the Company – before FX of subsidiaries	1,812.73	2,217.22
Gain (Loss) on FX of subsidiaries	312.13	(21.12)
Profit for the Company	2,124.85	2,196.10

* Included the revaluation of heavy oil and diesel oil prices in the total amount of -51.65 MB in 2Q23, -13.93 MB in 2Q22

Income Statement : 1H23 & 1H22

Unit : in Million Baht	1H23	1H22
Revenues	30,137.44	36,699.36
Costs & Expenses	(22,339.86)	(29,724.75)
EBITDA	7,797.57	6,974.62
Depreciation & Amortization – Cost*	(1,961.00)	(1,380.10)
Depreciation & Amortization – Admin	(121.51)	(111.36)
EBIT	5,715.07	5,483.16
Finance costs	(2,025.24)	(1,559.32)
Gain (loss) on fair value adjustment of derivatives	263.96	53.43
Income tax expense	(346.25)	(734.67)
Profit for the period	3,607.54	3,242.60
Non-controlling interests	(170.05)	141.00
Profit for the period: Equity holders of the Company – before FX of subsidiaries	3,437.49	3,383.60
Gain (Loss) on FX of subsidiaries	135.03	391.85
Profit for the Company	3,572.52	3,775.45

* Included the revaluation of heavy oil and diesel oil prices in the total amount of -182.37 MB in 1H23, -13.93 MB in 1H22

Income Statement

Unit : in Million Baht	2Q23	1Q23	4Q22	3Q22	2Q22
Revenues	13,132.60	17,004.84	20,217.43	24,871.29	18,449.70
Costs & Expenses	(9,035.66)	(13,304.21)	(18,391.21)	(20,860.43)	(14,469.72)
EBITDA	4,096.94	3,700.63	1,826.22	4,010.86	3,979.98
Depreciation & Amortization – Cost*	(922.48)	(1,038.51)	(688.51)	(797.61)	(696.88)
Depreciation & Amortization – Admin	(67.95)	(53.57)	(57.03)	(54.32)	(53.63)
EBIT	3,106.51	2,608.55	1,080.68	3,158.93	3,229.46
Finance costs	(1,000.68)	(1,024.57)	(753.38)	(663.96)	(751.00)
Gain (loss) on fair value adjustment of derivatives	45.45	218.51	(309.19)	153.30	78.92
Income tax expense	(238.58)	(107.67)	(97.75)	(104.92)	(266.10)
Profit for the period	1,912.72	1,694.82	(79.64)	2,543.35	2,291.27
Non-controlling interests	(99.99)	(70.06)	(6.53)	(28.58)	(74.06)
Profit for the period: Equity holders of the Company - before FX	1,812.73	1,624.76	(86.17)	2,514.77	2,217.22
Gain (Loss) on foreign exchange of subsidiaries	312.13	(177.10)	(155.44)	(266.54)	(21.12)
Profit for the Company	2,124.85	1,447.67	(241.61)	2,248.23	2,196.10

* Included the revaluation of heavy oil and diesel oil prices in the total amount of -51.65 MB in 2Q23, -13.93 MB in 2Q22

● ● ● Revenues: 2Q23 & 2Q22

Unit : in Million Baht	2Q23	2Q22	Diff	%
Sales	10,363.36	15,602.63	(5,239.27)	(33.58)
AP (RG)	841.63	636.19	205.44	32.29
EP (Fuel) – RG	5,000.22	11,431.83	(6,431.62)	(56.26)
RATCH Cogen (RCO)	822.27	810.54	11.73	1.45
RAC	1,184.44	1,421.86	(237.42)	(16.70)
NEHBV*	548.05	–	548.05	n.a.
RER**	626.53	–	626.53	n.a.
SCG	1,299.85	1,282.33	17.51	1.37
FRD	40.39	19.88	20.51	n.a.
Revenue from leases – RG/FRD	614.77	718.52	(103.75)	(14.44)
Revenue from rendering of services	34.12	18.15	15.97	87.96
Management service income	64.85	63.14	1.71	2.71
Dividend income	17.35	26.51	(9.16)	(34.55)
Interest income	435.36	67.29	368.07	n.a.
Other incomes	279.85	31.01	248.83	n.a.
Share of profit from JVs & Associates	1,322.94	1,922.44	(599.50)	(31.18)
Total Revenues	13,132.60	18,449.70	(5,317.10)	(28.82)

* NEHBV: Nexif Energy Holding B.V.

** RER: RATCH Energy Rayong Co., Ltd. has changed the name from Nexif Ratch Energy Rayong Co., Ltd.

● ● ● Revenues: 1H23 & 1H22

Unit : in Million Baht	1H23	1H22	Diff	%
Sales	24,824.17	31,765.14	(6,940.97)	(21.85)
AP (RG)	1,755.90	1,253.80	502.10	40.05
EP (Fuel) – RG	13,775.39	23,859.83	(10,084.44)	(42.27)
RATCH Cogen (RCO)	1,690.36	1,588.59	101.76	6.41
RAC	2,189.55	2,422.01	(232.46)	(9.60)
NEHBV*	1,482.57	–	1,482.57	n.a.
RER**	1,166.89	–	1,166.89	n.a.
SCG	2,725.99	2,586.40	139.59	5.40
FRD	37.52	54.50	(16.98)	(31.15)
Revenue from leases – RG/FRD	1,241.91	1,451.29	(209.38)	(14.43)
Revenue from rendering of services	66.23	38.08	28.15	73.93
Management service income	129.77	131.03	(1.26)	(0.96)
Dividend income	17.35	26.51	(9.16)	(34.55)
Interest income	842.61	114.39	728.22	n.a.
Other incomes	334.78	64.21	270.57	n.a.
Share of profit from JVs & Associates	2,680.61	3,108.71	(428.10)	(13.77)
Total Revenues	30,137.44	36,699.36	(6,561.93)	(17.88)

* NEHBV: Nexif Energy Holding B.V.

** RER: RATCH Energy Rayong Co., Ltd. has changed the name from Nexif Ratch Energy Rayong Co., Ltd.



Share of profit from jointly-controlled entities : 2Q23 & 2Q22

Included FX

Unit : in Million Baht	2Q23	2Q22	Diff	%
HPC	998.33	1,240.34	(242.01)	(19.51)
RIAU	71.84	7.08	64.77	n.a.
PNPC	64.60	180.36	(115.76)	(64.18)
RPCL	57.29	77.20	(19.91)	(25.79)
NNEG	47.26	(3.09)	50.35	n.a.
RW COGEN	46.23	52.99	(6.76)	(12.75)
Berk Prai	30.94	25.76	5.18	20.09
SEAN	14.94	65.60	(50.66)	(77.22)
Songkhla Biomass	10.04	8.61	1.43	16.60
KWINANA	6.82	4.55	2.27	49.88
KORAT 3,4,7	4.18	10.11	(5.93)	(58.66)
Impact Solar	3.34	0.46	2.88	n.a.
SOLARTA	1.64	48.19	(46.55)	(96.59)
FKW	0.42	4.79	(4.37)	(91.19)
KR2	0.08	3.78	(3.71)	(97.89)
RER	-	106.72	(106.72)	(100.00)
Others	(35.03)	88.96	(123.99)	n.a.
Total Share of profit from jointly-controlled entities	1,322.94	1,922.44	(599.50)	(31.18)



Share of profit from jointly-controlled entities : 1H23 & 1H22

Included FX

Unit : in Million Baht	1H23	1H22	Diff	%
HPC	2,051.74	1,836.01	215.73	11.75
RPCL	111.78	104.41	7.36	7.05
RIAU	106.22	93.52	12.70	13.58
RW COGEN	97.02	107.40	(10.38)	(9.66)
NNEG	69.84	(23.31)	93.14	n.a.
Berk Prai	58.08	43.12	14.96	34.70
PNPC	48.11	193.90	(145.79)	(75.19)
SEAN	36.87	95.37	(58.50)	(61.34)
Songkhla Biomass	16.74	11.30	5.44	48.14
Impact Solar	10.67	0.75	9.92	n.a.
KORAT 3,4,7	10.63	34.30	(23.68)	(69.02)
SOLARTA	7.76	98.97	(91.21)	(92.16)
KWINANA	6.84	4.40	2.44	55.45
KR2	6.53	5.44	1.10	20.24
FKW	4.62	7.15	(2.52)	(35.31)
RER	-	247.90	(247.90)	(100.00)
Others	37.17	248.08	(210.92)	(85.02)
Total Share of profit from jointly-controlled entities	2,680.61	3,108.71	(428.10)	(13.77)

Excluded FX

Unit : in Million Baht	2Q23	2Q22	Diff	%
HPC	932.00	1,013.41	(81.41)	(8.03)
RIAU	72.13	8.66	63.48	n.a.
RPCL	57.36	77.55	(20.19)	(26.03)
RW COGEN	46.67	52.91	(6.24)	(11.79)
NNEG	45.71	(3.61)	49.32	n.a.
Berk Prai	30.94	25.76	5.18	20.09
PNPC	14.00	70.27	(56.27)	(80.08)
SEAN	10.07	60.70	(50.63)	(83.41)
Songkhla Biomass	10.04	8.61	1.43	16.60
KWINANA	6.82	4.55	2.27	49.88
KORAT 3,4,7	4.18	10.11	(5.93)	(58.66)
Impact Solar	3.34	0.46	2.88	n.a.
SOLARTA	1.64	48.19	(46.55)	(96.59)
FKW	0.40	4.79	(4.39)	(91.60)
KR2	0.07	3.77	(3.71)	(98.15)
RER	-	106.72	(106.72)	(100.00)
Others	(33.86)	136.65	(170.51)	n.a.
Total Share of profit from jointly-controlled entities	1,201.53	1,629.53	(428.00)	(26.27)

Excluded FX

Unit : in Million Baht	1H23	1H22	Diff	%
HPC	1,978.07	1,614.15	363.92	22.55
RIAU	114.33	94.72	19.61	20.70
RPCL	111.65	104.46	7.18	6.87
RW COGEN	97.07	107.22	(10.15)	(9.47)
NNEG	67.64	(23.90)	91.53	n.a.
Berk Prai	58.08	43.14	14.94	34.64
SEAN	33.38	90.51	(57.13)	(63.12)
PNPC	27.42	143.39	(115.97)	(80.88)
Songkhla Biomass	16.74	11.30	5.44	48.14
Impact Solar	10.67	0.75	9.92	n.a.
KORAT 3,4,7	10.63	34.30	(23.68)	(69.02)
SOLARTA	7.76	98.97	(91.21)	(92.16)
KWINANA	6.84	4.40	2.44	55.45
KR2	6.52	5.43	1.10	20.27
FKW	4.60	7.14	(2.53)	(35.50)
RER	-	247.90	(247.90)	(100.00)
Others	13.94	282.99	(269.06)	(95.08)
Total Share of profit from jointly-controlled entities	2,565.33	2,866.87	(301.54)	(10.52)

● ● ● Costs and Expenses : 2Q23 & 2Q22

Unit : in Million Baht	2Q23	2Q22	Diff	%
Cost of Sale and Rendering of Services	8,388.93	13,854.44	(5,465.51)	(39.45)
– Fuel Cost : RG (Pass-through)	4,933.00	11,125.35	(6,192.35)	(55.66)
– Fuel Cost	1,964.12	1,536.68	427.44	27.82
– Operation & Maintenance	549.55	476.24	73.31	15.39
– Repairing Expense (CSA)	182.68	230.51	(47.83)	(20.75)
– Spare parts	108.44	116.10	(7.66)	(6.60)
– Others	651.14	369.55	281.58	76.20
Selling and Admin- Expenses	646.72	615.29	31.44	5.11
Total Cost and Expenses*	9,035.66	14,469.72	(5,434.07)	(37.55)

* excluding depreciation & amortization


● ● ● Costs and Expenses : 1H23 & 1H22

Unit : in Million Baht	1H23	1H22	Diff	%
Cost of Sale and Rendering of Services	21,126.69	28,665.64	(7,538.95)	(26.30)
– Fuel Cost : RG (Pass-through)	13,686.76	23,248.06	(9,561.30)	(41.13)
– Fuel Cost	4,147.21	3,115.99	1,031.22	33.09
– Operation & Maintenance	1,087.12	931.58	155.53	16.70
– Repairing Expense (CSA)	378.86	450.76	(71.90)	(15.95)
– Spare parts	216.93	202.22	14.71	7.27
– Others	1,609.82	717.02	892.80	124.52
Selling and Admin- Expenses	1,213.17	1,059.11	154.06	14.55
Total Cost and Expenses*	22,339.86	29,724.75	(7,384.88)	(24.84)

* excluding depreciation & amortization


Planned Outage in 2023

Actual Outage Planned Outage		Planned Outage in 2023											
Plant		Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
RG	CCGT-11												7 <div>CI (15d)</div> 21
	CCGT-12												7 <div>CI (15d)</div> 21
	CCST-10											26 <div>MI (26d)</div> 21	
RG	CCGT-21									7 <div>CI (15d)</div> 21			
	CCGT-22									7 <div>CI (15d)</div> 21			
	CCST-20								27 <div>MI (26d)</div> 21				
RG	CCGT-31						3 <div>MI (27d)</div> 29						
	CCGT-32						3 <div>MI (27d)</div> 29						
	CCST-30						7 <div>MI (23d)</div> 29						
RG	Thermal-1									1 <div>MI (40d)</div> 9			
RG	Thermal-2										12 <div>MI (40d)</div> 21		
HPC	Unit #1							24 <div>YM (22d)</div> 14					
	Unit #2								3 <div>YM (22d)</div> 24				
	Unit #3										8 <div>ME (70d)</div> 16		
RPCL	CCGT-11										29 <div>MI (24d)</div> 21		
	CCGT-12										29 <div>MI (24d)</div> 21		
	CCST-10										29 <div>MI (24d)</div> 21		
RPCL	CCGT-21	3 <div>CI (10d)</div> 12											
	CCGT-22	3 <div>CI (10d)</div> 12											
	CCST-20												

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 (WP*)		(CI)		(MI)		(MO)
	26 Days	32 Days		15 Days		30 Days		52 Days
Steam Turbine	Warranty Inspection (WI)			Minor Inspection		Major Overhaul		
	Normal (WP**)	Gen.Rotor Removed (WP*)		(MI)		(MO)		
	26 Days	30 Days		26 Days		49 Days		

Planned Outage in 2022

<div><div></div>Actual Outage</div> <div><div></div>Planned Outage</div>		Planned Outage in 2022											
Plant		Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
RG	CCGT-11											<div>CI (11d) 277</div>	
	CCGT-12											<div>CI (11d) 277</div>	
	CCST-10												
RG	CCGT-21				<div>MI (30d) 32</div>								
	CCGT-22				<div>MI (30d) 32</div>								
	CCST-20												
RG	CCGT-31		<div>CI (9d) 614</div>										
	CCGT-32		<div>CI (9d) 614</div>										
	CCST-30												
RG	Thermal-1												
RG	Thermal-2												
HPC	Unit #1											<div>YM (22d) 2011</div>	
	Unit #2	<div>MO (44d) 1426</div>											
	Unit #3										<div>YM (22d) 166</div>		
RPCL	CCGT-11											<div>CI (10d) 276</div>	
	CCGT-12											<div>CI (10d) 276</div>	
	CCST-10												
RPCL	CCGT-21	<div>MI (25d) 327</div>											
	CCGT-22	<div>MI (25d) 327</div>											
	CCST-20	<div>MI (25d) 327</div>											

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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