EQUITY RESEARCH - REINITIATION REPORT

RATCH GROUP

RATCH TB

THAILAND / UTILITIES





FSSIA ESG rating



A safe growth play

- Net profit upsides all around including additional capacity growth of 643MW in 2025E and 411MW in 2026E.
- Expect strong equity profit in 2024-26, backed by new capacity of HKP, newly acquired Paiton and renewable projects commencing.
- Reinitiate coverage of RATCH with BUY call and an SoTP-TP of THB36.

Another strategic IPP and renewable energy growth step in 2025-33

RATCH has several new equity capacity growth projects in the pipeline, with a combined capacity of 643MW set to commence CODs in 2025 and an additional 411MW in 2026. In 2025, the projects include the 392MW HKP block 2. Other projects include a 152MW solar farm in Australia, a 71MW NPSI solar farm in the Philippines, the 12MW NNEG extension (hydro), the 10MW LG2 battery (solar, Australia), and the 5.55MW Song Giang 1 (solar, Vietnam). For 2026, equity capacity growth should come from Lincoln Gap 3, a 252MW wind project in Australia, the 100MW LG3 battery (solar, Australia), and the 59MW Nexif Ben Tre wind project in Indonesia. Over the next five years, RATCH plans to add 1.7GW of capacity, with green projects accounting for 77% of the total. This supports the company's long-term strategy for sustainable growth, with the current renewable energy expected to contribute 27% of total revenue.

Solid share of profits from IPPs and renewable energy in 2024-25

Despite a projected decline in RG's revenue over the next two years before its expiration in 2027, contributions from IPPs and SPPs are expected to provide timely replacements. This would result in a sharp increase in the share of profits from associate companies, potentially reaching THB9.4b in 2025, up 31% y-y. Key projects from HKP block 2 and the 742MW coal-fired Paiton Project will deliver full-year earnings, while RATCH's renewable energy segment should deliver mixed earnings results in 2025. Key contributors include a 152MW solar farm in Australia, the 71MW NPSI solar project in the Philippines, the 13MW NNEG Phase 3 expansion, and the LG3 Battery 2-3 project (110MW, solar).

Expect net profit growth of 13% and 9% in 2025-26

We project RATCH's net profit for 2024-26 to be THB7b, THB7.9b, and THB8.6b, reflecting growth of 35.8% y-y, 12.8% y-y, and 9.1% y-y, respectively. Key drivers include higher earnings from IPPs. Contributions from the 392MW HKP block 1 starting in March 2024 and the full-year recognition of the Paiton Project starting in April 2024 should drive earnings. 2025 net profit growth should primarily be supported by new capacity additions, including the commissioning of HKP block 2, the solar farm project in Australia, and the NPSI project in the Philippines. 2026 earnings are set to be further bolstered by an additional 411MW of overseas renewable projects and the commencement of the Motorway M6 & M81 projects within 2026.

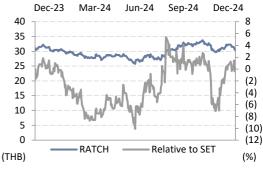
BUY with our SoTP-based TP of THB36

We reinitiate coverage of RATCH with a BUY call and an SoTP-based TP of THB36 to reflect our valuation in 2025. We see RATCH as a safe growth play, driven by a stronger net profit growth momentum on new capacity set to come online in 2025-26.

TARGET PRICE	THB36.00
CLOSE	THB30.50
UP/DOWNSIDE	+18.0%
TP vs CONSENSUS	+1.6%

KEY STOCK DATA

YE Dec (THB m)	2023	2024E	2025E	2026E
Revenue	43,976	35,137	34,455	29,287
Net profit	5,167	7,018	7,919	8,640
EPS (THB)	2.38	3.23	3.64	3.97
vs Consensus (%)	-	(2.6)	(2.1)	10.4
EBITDA	7,249	7,093	6,390	6,515
Core net profit	5,167	7,018	7,919	8,640
Core EPS (THB)	2.38	3.23	3.64	3.97
EPS growth (%)	(11.1)	35.8	12.8	9.1
Core P/E (x)	12.8	9.5	8.4	7.7
Dividend yield (%)	5.2	5.6	5.9	5.9
EV/EBITDA (x)	15.7	18.3	20.4	19.8
Price/book (x)	0.7	0.7	0.6	0.6
Net debt/Equity (%)	35.5	48.4	46.8	43.7
ROE (%)	5.3	7.0	7.6	8.0



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	0.0	(6.2)	1.7
Relative to country (%)	6.0	(0.9)	2.9
Mkt cap (USD m)			1,920
3m avg. daily turnover (USD m)			2.7
Free float (%)			43
Major shareholder		E	GAT (45%)
12m high/low (THB)		3	4.25/25.25
Issued shares (m)			2,175.00

Sources: Bloomberg consensus; FSSIA estimates



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Investment thesis

We see RATCH as a mid- to long-term play, thanks to its continued organic and inorganic capacity growth. In the near term, RATCH's net profit growth should be driven by new growth projects (HKP, 362MW, gas) commencing their CODs in 1H25. In addition, Paiton is a long-term cash cow that can fill up the cash flow dents from the expiration of RG in 2024-27 and build its own operation in Indonesia.

We believe RATCH's earnings momentum will improve in 2025, driven by: 1) stronger earnings contributions from HKP; 2) 2025E increase in equity capacity by more than 643MW; and 3) higher profitability and ROE driven by high-margin new capacity. RATCH aims to grow its renewable capacity in Australia, Laos, Indonesia, the Philippines and Vietnam, especially the Australian market, where it has long owned and operated RATCH-Australia (RAC) to operate a number of conventional and renewable power projects. RAC currently has a total capacity of 2GW with four new projects as future growth engines for RATCH as a passive investor.

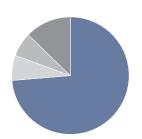
Company profile

RATCH is a holding company investing in electricity generating businesses. RATCH is Thailand's largest power producer by equity capacity and most of its generating power capacity is via Independent Power Producers (IPP).

www.ratch.co.th

Principal activities (revenue, 2023)

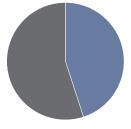
- Domestic electricity generating -73.7 %
- International power projects 6.9 %
- Revenue from finance lease contracts 6.7 %
- Others 12.7 %



Source: Ratch Group

Major shareholders

■ EGAT - 45.0 % ■ Others - 55.0 %



Source: Ratch Group

Catalysts

Higher power plant utilization rates and rising demand for electricity in Thailand and Australia are key potential upside catalysts.

Key assumptions

	2024E	2025E	2026E
Dispatched power (GWh)	43,446	43,446	37,060
Gas price (THB/mmBTU)	367	350	360

Risks to our call

The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand; 2) lower crude price; and 3) delays in starting new projects.

Event calendar

Date	Event
Feb 2025	4Q24/2024 results announcement

Source: FSSIA estimates

Earnings sensitivity

- For every 1% increase in gas price, we estimate 2024 earnings would decline 1.1%, and vice versa, all else being equal.
- For every 1% increase in interest rate, we estimate 2024 earnings would decline 1.0%, and vice versa, all else being equal.

Source: FSSIA estimates

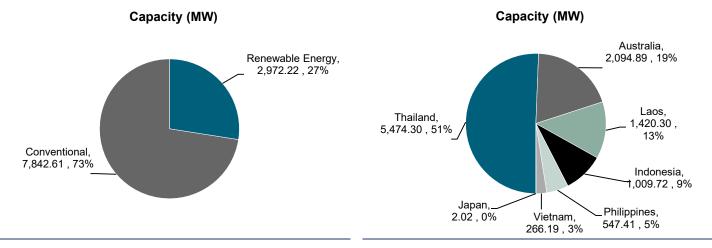
Expect RATCH's net profit to reach an all-time high in 2025

RATCH is a holding company investing in electricity generating businesses. RATCH is Thailand's largest power producer by equity capacity and most of its generating power capacity is via independent power producers (IPP).

RATCH aims to grow its renewable capacity in Australia, Laos, Indonesia, the Philippines, and Vietnam, especially the Australian market, where it has long owned and operated RATCH-Australia (RAC) to operate a number of conventional and renewable power projects. RAC currently has a total capacity of 2 GW with four new projects as future growth engines for RATCH as a passive investor.

Exhibit 1: RATCH's power plant portfolio by type of fuel

Exhibit 2: RATCH's project presence



Sources: RATCH, as of October 2024

Sources: RATCH, as of October 2024

In 9M24, RATCH's EBITDA (including JV projects) was up by 15.3% y-y to THB12.8b, supported by recognizing a share of profit from HKP unit 1, which had its COD in March 2024, as well as the Paiton coal-fired thermal power plant which was acquired in April 2024. Meanwhile, the share of profits from PNPC and HPC declined mainly due to the THB weakening. Overall, more than 65% of RATCH's total EBITDA came from overseas markets as of 9M24.

Exhibit 3: EBITDA breakdown in 9M23

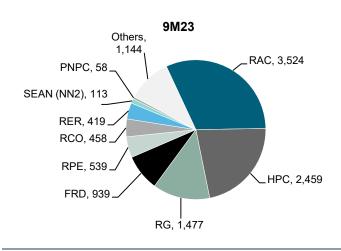
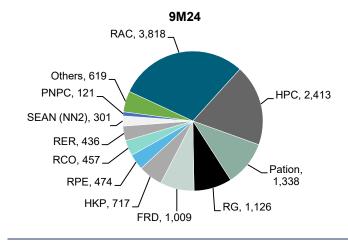


Exhibit 4: EBITDA breakdown in 9M24



Source: RATCH Source: RATCH

Exhibit 5: RATCH's projects in operation

Project	Туре	Location	Stake	Сара	city	Contract life	Commercial	PP.
				Installed	EQ-owned		operation date	expiration dat
				(MW)	(MW)	(years)		
RATCH's current projects								
PP				6,675	4,803			
RG	Thermal	Ratchaburi (TH)	100%	1,470	1,470	25	Oct-00, Apr/Nov-02	2025
RG	Combined Cycle	Ratchaburi (TH)	100%	2,175	2,175	25	Oct-00, Apr/Nov-03	2027
HKP	Combined Cycle	Ratchaburi (TH)	51%	1,540	785	25	March-24, Apr/Jan-25	2050
RPCL (Ratchaburi Power)	Combined Cycle	Ratchaburi (TH)	25%	1,490	373	25	Mar/Jun-08	2033
SPP				1,097	562			
RW Cogen	Cogeneration	Ratchaburi (TH)	40%	235	94	25	Nov-14,Mar15	2039E/2040
NNEG	Cogeneration	Prathum Thani (TH)	40%	142	57	25	Jun-16	2041
Berkprai Cogeneration	Cogeneration	Ratchaburi (TH)	35%	99	35	25	2019E	2044
Sahacogen	Combined Cycle	Chonburi Thailand	52%	153	79	25		2041
NNEG expansion	Cogeneration	Prathum Thani (TH)	40%	60	24	25	2020E	2045
RATCH Rayong	Combined Cycle	Rayong (TH)	51%	98	50	25	2022E	2047
RER	Thermal	rayong (111)	40%	31	12	25	2022E	2047
PS Korat	Thermal	Korat	49%	98	48	NA	2022E	2047
			100%			25	2024E	2047
Ratch gen Renewable	Combined Cycle	Prathum Thani (TH)	100%	151 347	151 96	25	2022E	2047
	\\/	Vanak	200/			C ====================================	N= 40	2024
Huay Bong 3	Wind	Korat	20%	103.5	20.7	5, renewable	Nov-12	2021
Huay Bong 2	Wind	Korat	20%	103.5	20.7	5, renewable	Feb-13	2021
Korat3,Korat4,Korat7	Solar	Nakornratchasima	40%	21.6	8.64	5, renewable	Mar/May-12	2021
Solarta	Solar	Ayutthaya	49%	42.3	20.73	5, renewable	Apr-11,2012	2021
2 Solar Rooftop	Solar	Chonburi Thailand	52%	14.08	7.28	0		
BAFS Solar	Solar	Thailand	16%	36.4	5.65	0	NA	N
Sahacogen (SCG)	Biomass	Thailand	55%	15.23	8.33	NA	Replacement - 2024	2024
0	D'	T 1 11 1	400/	40	4.0	-	(RH acquired Dec 2021)	0001
Songkhla	Biomass	Thailand	40%	10	4.0	5	2015	2025
Overseas	0.1	Owner death Assatustic	4000/	9,726	3,846		A construct to the Lat 4.4	000
Collinsville Solar (SPP)	Solar	Queensland, Australia	100%	43	43	avg remain 6	Acquired in Jul-11	2030
Nam Ngum 2	Hydro	Laos PDR	25%	615	154	27	Mar-11	2038
Hongsa	Lignite-fired	Laos	40%	1,878	751	25	2015	2040
EDL	Solar	Laos PDR	10%	19	2	NA	Acquired in Jan-11	1
≣DL	Hydro	Laos PDR	10%	1,958	198	NA	Acquired in Jan-11	1
BAFS Solar	Solar	Japan	16%	13	2	NA	NA	N
Calabanga	Solar	Philippines	49%	74	36	10	Aust-2024	2030
Collector Wind farm	Wind	Australia	100%	227	227	14	1Q19E	2033
Lincoln Gap 1&2	Wind	Australia	100%	212	212	15	4Q20E	2035
Yandin	Wind	Australia	70%	214	150	15	3Q20E	2035
Toora	Wind	Victoria, Australia	100%	21	21		2002	١
SPP	Wind	Queensland, Australia	100%	12	12	avg remain 6	2000	2030
SPP	Wind	Queensland, Australia	100%	180	180	avg remain 6	Dec-18	2030
PNPC	Hydro	Laos PDR	25%	410	103	27	2019E	2046
Riau	Thermal	Laos PDR	49%	296	145	25	2021	2046
Paiton (Coal)	Thermal	Java, Indonesia	36%	2,045	742	25	2017	2042
Asahan-1	Hydro	Sumata, Indonesia	48%	180	86	30	2011	2040
Townsville (SPP)	Combined Cycle	Queensland, Australia	100%	234	234	26	1999	2025
Kemerton (SPP)	Open Cycle Gas Turbine	Western, Australia	100%	315	315	25	2005	2030
Coc San	Hydro	Hanoi, Vietnam	58%	30	17	20	2016	2036
Minh Luong	Hydro	Lao Cai, Vietnam	49%	30	15	20	2018	2038
Ecowin	-	Vietnam	51%			20		2030
cowin Starfish Hill	Wind			30	15	20	Sep-23	
	Wind	Australia	100%	33	33	00	2003	N
Song Giang 2	Hydro	Vietnam	46%	37	17	20	2014	2034
Thang Long (IPP)	Coal	Vietnam	22%	620	136	25	2018	2018-43
Total current projects				17,844	9,307		 ,	
RATCH's future projects								
Γhungfai	Solar	Lampang (TH)	52%	27	13.95	25		
Solar Farm	Solar	Australia	100%	154	154.00			
Solar Farm	Solar	Philippines	49%	145	71.05			
Bentre	Wind	Vietnam	75%	80	59.60	20		
Song Giang 1	Hydro	Vietnam	46%	12	5.55			
Hydroelctric	Hydro	Laos PDR	60%	355	213.00	27		
Sibundong (SPP)	Hydro	Sumata, Indonesia	50%	74	36.85			
_G2 Battery (ADD)	Battery	Australia	100%	10	10.00			
LG3 Battery	Battery	Australia	100%	100	100.00			
- ·/				252	252	15		1
incoln Gap 3	Wind	South Australia						
Lincoln Gap 3 Total Future projects	Wind	South Australia	100%	2,609	1,630	15		'

As of 11 Dec-24; Source: RATCH

Strengthening IPP and renewable energy growth portfolio

RATCH has several new equity capacity growth projects in the pipeline, with a combined capacity of 643MW set to commence CODs in 2025 and an additional 411MW in 2026. In 2025, the projects include the 392MW HKP block 2. Other projects include a 152MW solar farm in Australia, a 71MW NPSI solar farm in the Philippines, the 12MW NNEG extension (Hydro), the 10MW LG2 battery (solar, Australia), and the 5.55MW Song Giang 1 (solar, Vietnam). For 2026, equity capacity growth should come from Lincoln Gap 3, a 252MW wind project in Australia, the 100MW LG3 battery (solar, Australia), and the 59MW Nexif Ben Tre wind project in Indonesia. Over the next five years, RATCH plans to add 1.7GW of capacity, with green projects accounting for 77% of the total. This supports the company's long-term strategy for sustainable growth, with the current renewable energy expected to contribute 27% of total revenue, based on our estimates.

Exhibit 6: RATCH's capacity growth projects

Projects	Туре	Туре	Equity capacity (MW)	COD	Locations
Solar Farm	SPP	solar	152	2025E	Thailand
NPSI	SPP	solar	74	2025E	Philippine
LG2	Renewable	Solar+battery	10	2025E	Australia
Song Gieng 1	Renewable	solar	6	2025E	Vietnam
NNEG Extension	SPP	Gas	12	2025E	Thailand
Hin Kong	IPPs	Gas	714	Jan-2025E	Thailand
Nexif Energy Ben Tre	Renewable	Wind	40	2026E	Vietnam
LG3	Renewable	Solar+battery	100	2026E	Australia
Lincoin Gap 3	Renewable	Wind	252	2026E	Australia
Nearshore WF	Renewable	Wind	220	2029E	Philippine
Sibundong	SPP	Hydro	37	2029E	Indonesia
Offshore WF	Renewable	Wind	220	2030E	Philippine
Thugnfai	Renewable	Solar	14	2030E	Thailand
Sekong 4A&4B	SPP	Hydro	213	2033E	Lao PDR

Source: RATCH

Expect net profit growth of 13% and 9% in 2025-26

Despite a projected decline in RG's revenue over the next two years before its expiration in 2027, contributions from IPPs and small power producers (SPPs) are expected to provide timely replacements. This would result in a sharp increase in the share of profits from associate companies, potentially reaching THB9.4b in 2025, up 31% y-y. Key projects from HKP block 2 and the 742MW coal-fired Paiton Project will deliver full-year earnings, while RATCH's renewable energy segment is anticipated to deliver mixed earnings results in 2025. Key contributors include a 152MW solar farm in Australia, the 71MW NPSI solar project in the Philippines, the 13MW NNEG Phase 3 expansion, and the LG3 Battery 2-3 project (110MW, solar, Australia).

We project RATCH's net profit for 2024-26 to be THB7b, THB7.9b, and THB8.6b, reflecting growth of 35.8% y-y, 12.8% y-y, and 9.1% y-y, respectively. Key drivers include higher earnings from IPPs. Contributions from the 392MW HKP block 1 starting in March 2024 and the full-year recognition of the Paiton Project starting in April 2024 should drive earnings. This would result in a sharp increase in the share of profits from associate companies, potentially reaching THB7.2b, up 89% y-y in 2024. 2025 net profit growth should primarily be supported by new capacity additions, including the commissioning of HKP block 2, the solar farm project in Australia, and the NPSI project in the Philippines. 2026 earnings should be further bolstered by an additional 411MW of overseas renewable projects and the commencement of the Motorway M6 & M81 projects as well as the Pink Line Expansion project within 2026.

Exhibit 7: Summary of 3Q24/9M24 operations

	3Q23	2Q24		3Q24		9M23	9M24	Change	2024E
	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)	(THB m)
Revenue	9,511	8,244	9,001	9.2	(5.4)	35,773	26,775	(25.2)	35,137
Operating costs	(6,450)	(5,547)	(6,163)	11.1	(4.5)	(27,658)	(18,649)	(32.6)	(25,233)
EBITDA	2,375	1,947	2,145	10.2	(9.7)	6,094	5,962	(2.2)	7,093
EBIT	1,441	903	1,140	26.3	(20.9)	3,280	2,872	(12.5)	2,917
Interest expense	(1,141)	(1,175)	(1,124)	(4.4)	(1.5)	(3,166)	(3,324)	5.0	(4,147)
Interest & invt inc	469.9	325.1	198.1	(39.1)	(57.8)	1,312	957	(27.1)	989
Associates' contrib	550.8	2,331.1	2,034.5	(12.7)	269.4	3,231	5,312	64.4	7,212
Exceptionals	(119)	181	79	(56.3)	(166.8)	(380)	(126)	(66.9)	-
Pretax profit	1,286	2,399	1,750	(27.1)	36.1	5,028	5,766	14.7	8,227
Tax	(301)	(469)	(78)	(83.3)	(74.0)	(647)	(759)	17.3	(890)
Net profit	1,182	2,290	1,658	(27.6)	40.3	4,755	5,485	15.4	7,018
Non-recurring	(6)	(207)	353	(270.1)	(5,683.5)	(123)	38	(131.2)	-
Core net profit	1,057	2,264	2,090	(7.7)	97.8	4,252	5,398	26.9	7,018
EPS (THB)	0.82	1.58	1.14	(27.6)	40.3	3.28	3.78	15.4	3.87
Core EPS (THB)	0.73	1.56	1.44	(7.7)	97.8	2.93	3.72	26.9	3.87

Sources: RATCH; FSSIA estimates

Exhibit 8: 3Q24/9M24 – key performance

Revenues	3Q24	3Q23	Change	9M24	9M23	Change
	(THB m)	(THB m)	(y-y %)	(THB m)	(THB m)	(y-y %)
Sales	8,369	8,820	(5)	24,803	33,644	(26)
AP (RG)	734	929	(21)	2,306	2,685	(14)
EP (Fuel) - RG	3,062	3,455	(11)	10,137	17,230	(41)
RATCH Cogen (RCO)	722	713	1	2,145	2,404	(11)
RAC	2,319	1,796	29	5,409	5,372	1
CS	57	46	25	154	142	9
RER	598	598	(0)	1,660	1,765	(6)
RPE	828	1,219	(32)	2,820	3,945	(29)
FRD	49	64	(23)	171	101	69
Share of profits from jointly-controlled entities	3Q24	3Q23	Change	9M24	9M23	Change
	(THB m)	(THB m)	(y-y %)	(THB m)	(THB m)	(y-y %)
Paiton	846	-	-	2,413	2,459	(1.85)
HPC	713	407	75	1,338	-	-
HKP	418	(22)	n/a	717	(49)	n/a
SEAN	130	76	71	301	113	n/a
RPCL	61	76	(20)	151	188	(19.84)
RW COGEN	51	51	1	148	148	(0.03)
NNEG	41	68	(40)	125	138	(9.57)
Yandin	20	(11)	n/a	121	58	n/a
RIAU	13	43	(70)	118	31	n/a
Songkha Biomass/Biofuel	11	12	(9)	75	149	(49.51)
Berkprai	7	31	(79)	70	89	(21.91)
PNPC	(168)	10	n/a	29	29	1.94
Others	(108)	(189)	(43)	(293)	(120)	n/a
Total share of profits from jointly-controlled entities	2,034	551	n/a	5,312	3,231	64

Source: RATCH

Valuation

We reinitiate coverage of RATCH with a BUY call and an SoTP-based TP of THB36. We see RATCH as a near-term recovery play, providing upsides to its share price thanks to its solid capacity growth and its IPP net profit recovery outlook. RATCH is also a long-term power play, in our view, thanks to its continued organic and inorganic capacity growth. In the near term, RATCH's net profit growth should be driven by seasonally strong earnings in 1H25 that will likely continue into 2H25, backed by RATCH's new growth projects commencing their CODs from January 2025 onward.

In the Thai power sector, we prefer RATCH and CK Power (CKP TB, BUY) for IPPs, while we like Global Power Synergy (GPSC TB, BUY) and WHA Utilities and Power (WHAUP TB, HOLD) for SPPs, given their more visible, stronger earnings growth outlooks in 2025-26.

Exhibit 9: SoTP-based valuation

Cost of equity assumptions	(%)	Cost of debt assumptions	(%)
Risk-free rate	3.0	Pretax cost of debt	5.0
Market risk premium	11.0	Marginal tax rate	20.0
Stock beta	1.1		
Cost of equity, Ke	15.1	Net cost of debt, Kd	4.0
Weight applied	30.0	Weight applied	70.0
WACC (%)	7.3		

DCF valuation estimate	(THB m)	(THB/share)	Comments
Core operating assets	43,976	20.2	WACC 7.3%, Risk-free rate 3%, Risk premium 11%
Investments	84,232	38.7	Estimated value for affiliates post 2024E at 1x P/BV
Cash	7,875	3.6	At end-2024E
Debt	(61,572)	(28.3)	At end-2024E
Minorities	(319)	(0.1)	At end-2024E
Residual ordinary equity	74,192	34.1	
Hin Kong (700MW)	2,724	1.3	Assume EIRR at 13%, COD 2024-25E
New 214 wind farms in Australia (214MW)	1,577	0.7	Assume EIRR at 13%, COD 2025-26E
Target price	83,496	36.1	

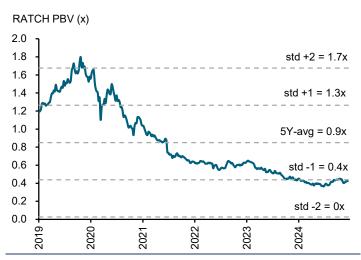
Sources: RATCH; FSSIA estimates

Exhibit 10: Forward EV/EBITDA



Sources: Bloomberg; FSSIA estimates

Exhibit 11: Forward P/BV



Sources: Bloomberg; FSSIA estimates

Exhibit 12: Thailand power sector valuations as of 19 Dec 2024

Company	BBG	Rec	Share	Target	Up	Market	P	E	R0	DE	PI	BV	- EV/ EB	SITDA -	Div	Yld
			Price	price	side	Сар	24E	25E	24E	25E	24E	25E	24E	25E	24E	25E
			(LCY)	(LCY)	(%)	(USD m)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)	(x)	(x)
Global Power Synergy*	GPSC TB	BUY	40.25	51	27	3,285	24.2	21.1	4.4	4.9	1.0	1.0	10.4	10.1	1.9	2.0
Ratch Group*	RATCH TB	BUY	30.50	36	18	1,920	9.5	8.4	7.0	7.6	0.7	0.6	18.3	20.4	5.6	5.9
CK Power*	CKP TB	BUY	3.10	4.35	40	730	20.8	11.8	4.4	7.5	0.9	0.9	13.4	14.5	3.2	3.2
WHA Utilities and Power*	WHAUP TB	HOLD	4.78	5.30	11	529	13.7	10.5	9.6	12.0	1.3	1.2	21.2	18.6	5.2	5.2
Gulf Energy Development	GULF TB	n/a	58.75	n/a	n/a	19,975	36.8	30.8	14.3	15.1	5.0	4.3	28.5	24.5	1.7	1.8
B Grimm Power	BGRIM TB	n/a	18.80	n/a	n/a	1,420	26.4	21.6	4.1	5.2	1.3	1.2	11.8	11.2	1.8	2.1
BCPG	BCPG TB	n/a	5.20	n/a	n/a	451	5.0	12.5	5.7	3.5	0.5	0.5	10.1	12.0	4.3	4.7
Energy Absolute	EA TB	n/a	3.94	n/a	n/a	633	4.8	7.2	9.6	7.2	0.4	0.5	10.2	12.2	2.0	1.9
Electricity Generating	EGCO TB	n/a	119.50	n/a	n/a	1,823	8.1	7.1	7.2	7.8	0.6	0.5	9.7	11.2	5.2	5.5
Banpu Power	BPP TB	n/a	11.20	n/a	n/a	989	9.9	8.8	6.7	7.2	0.6	0.6	10.6	9.9	5.8	5.8
Gunkul Engineering	GUNKUL TB	n/a	2.24	n/a	n/a	558	11.5	11.2	10.7	11.6	1.3	1.3	8.6	7.8	4.4	4.5
Absolute Clean Energy	ACE TB	n/a	1.29	n/a	n/a	377	14.3	9.9	6.0	7.7	0.8	8.0	9.6	7.3	n/a	n/a
Thailand power sector avg.						32,691	15.4	13.4	7.5	8.1	1.2	1.1	13.5	13.3	3.7	3.9

Sources: Bloomberg; *FSSIA estimates

Financial Statements

Ratch Group

Profit and Loss (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Revenue	75,001	43,976	35,137	34,455	29,287
Cost of goods sold	(69,287)	(37,755)	(29,409)	(29,592)	(24,832)
Gross profit	5,714	6,221	5,728	4,864	4,455
Other operating income	-	-	-	-	
Operating costs	(2,749)	(3,037)	(2,811)	(2,756)	(2,343)
Operating EBITDA	6,002	7,249	7,093	6,390	6,515
Depreciation	(3,037)	(4,065)	(4,176)	(4,282)	(4,404)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,965	3,184	2,917	2,107	2,112
Net financing costs	(2,507)	(2,478)	(2,891)	(3,652)	(3,680)
Associates	5,391	3,815	7,212	9,444	9,727
Recurring non-operating income	6,185	5,634	8,201	10,644	11,377
Non-recurring items	(30)	0	0	0	0
Profit before tax	6,614	6,339	8,227	9,098	9,809
Tax	(937)	(860)	(890)	(860)	(820)
Profit after tax	5,676	5,479	7,337	8,238	8,989
Minority interests	106	(312)	(319)	(319)	(349)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	5,782	5,167	7,018	7,919	8,640
Non-recurring items & goodwill (net)	30	0	0	0	0
Recurring net profit	5,812	5,167	7,018	7,919	8,640
Per share (THB)					
Recurring EPS *	2.67	2.38	3.23	3.64	3.97
Reported EPS	2.66	2.38	3.23	3.64	3.97
DPS	1.60	1.60	1.70	1.80	1.80
Diluted shares (used to calculate per share data)	2,175	2,175	2,175	2,175	2,175
Growth					
Revenue (%)	99.7	(41.4)	(20.1)	(1.9)	(15.0)
Operating EBITDA (%)	28.8	20.8	(2.2)	(9.9)	2.0
Operating EBIT (%)	17.6	7.4	(8.4)	(27.8)	0.2
Recurring EPS (%)	(49.1)	(11.1)	35.8	12.8	9.1
Reported EPS (%)	(50.7)	(10.6)	35.8	12.8	9.1
Operating performance					
Gross margin inc. depreciation (%)	7.6	14.1	16.3	14.1	15.2
Gross margin of key business (%)	11.7	23.4	28.2	26.5	30.2
Operating EBITDA margin (%)	8.0	16.5	20.2	18.5	22.2
Operating EBIT margin (%)	4.0	7.2	8.3	6.1	7.2
Net margin (%)	7.7	11.8	20.0	23.0	29.5
Effective tax rate (%)	76.7	34.1	70.0	16.1	16.1
Dividend payout on recurring profit (%)	59.9	67.3	52.7	49.4	45.3
Interest cover (X)	3.6	3.6	3.8	3.5	3.7
Inventory days	10.6	24.2	31.8	27.2	30.5
Debtor days	49.8	69.9	57.1	60.1	68.9
Creditor days	53.0	97.3	80.9	69.2	77.5
Operating ROIC (%)	4.7	4.2	3.8	2.7	2.8
ROIC (%)	4.6	3.9	4.6	5.0	5.2
ROE (%)	6.9	5.3	7.0	7.6	8.0
ROA (%)	4.0	3.4	4.5	5.2	5.5
* Pre-exceptional, pre-goodwill and fully diluted		· · ·		0.-	3.0
Revenue by Division (THB m)	2022	2023	2024E	2025E	2026E
· · · · · · · · · · · · · · · · · · ·					
Domestic electricity generating	66,120	32,401	29,161	26,245	20,099
International power projects	2,456	3,048	3,505	5,698	6,553
Revenue from finance lease contracts	6,174	2,927	1,464	1,610	1,771
Others	251	5,600	1,007	903	864

Sources: Ratch Group; FSSIA estimates

Financial Statements

Ratch Group

Ratch Group					
Cash Flow (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Recurring net profit	5,812	5,167	7,018	7,919	8,640
Depreciation	3,037	4,065	4,176	4,282	4,404
Associates & minorities	5,391	3,815	7,212	9,444	9,727
Other non-cash items	- (1 115)	(2.760)	- 596	- 157	854
Change in working capital Cash flow from operations	(1,115) 13,125	(3,769) 9,279	19,002	21,802	23,624
Capex - maintenance	(3,037)	(4,065)	(4,176)	(4,282)	(4,404)
Capex - new investment	(16,110)	(846)	(330)	(282)	(404)
Net acquisitions & disposals	(10,298)	(2,396)	(20,471)	(5,000)	(5,000)
Other investments (net)	(5,263)	7,169	7,212	9,444	9,727
Cash flow from investing	(34,708)	(138)	(17,765)	(121)	(80)
Dividends paid Equity finance	(3,252) 0	(3,251) 0	(3,480) 0	(3,915) 0	(3,915) 0
Debt finance	35,564	(8,773)	0	(3,000)	(1,000)
Other financing cash flows	16,650	(12,554)	(11,090)	(10,867)	(10,869)
Cash flow from financing	48,963	(24,578)	(14,570)	(17,782)	(15,784)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	4,659	0	0	0 (7.400)
Net other adjustments Movement in cash	0	4,659	(2,355)	(7,136)	(7,428) 331
Free cash flow to firm (FCFF)	27,380 (18,605.82)	(10,778) 13,583.32	(15,688) 5,383.77	(3,237) 25,727.01	27,455.38
Free cash flow to equity (FCFE)	30,631.65	(7,527.90)	(12,208.35)	678.04	4,246.47
Por charo (THR)					
Per share (THB) FCFF per share	(8.55)	6.25	2.48	11.83	12.62
FCFE per share	14.08	(3.46)	(5.61)	0.31	1.95
Recurring cash flow per share	6.55	6.00	8.46	9.95	10.47
Balance Sheet (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Tangible fixed assets (gross)	73,608	73,608	75,608	78,608	81,608
Less: Accumulated depreciation	(21,270)	(21,270)	(24,446)	(27,729)	(31,132)
Tangible fixed assets (net)	52,338	52,338	51,161	50,879	50,476
Intangible fixed assets (net)	19,515	19,267	19,267	19,267	19,267
Long-term financial assets Invest. in associates & subsidiaries	61,365	63,761	84,232	89,232	94,232
Cash & equivalents	34,341	23,563	7,875	4,638	4,969
A/C receivable	11,518	5,324	5,676	5,676	5,383
Inventories	1,946	2,513	1,883	1,888	1,524
Other current assets	7,680	10,217	8,164	8,005	6,805
Current assets	55,484	41,618	23,597	20,207	18,681
Other assets Total assets	40,876 229,578	37,341 214,325	37,341 215,598	37,341 216,926	37,341 219,997
Common equity	98,029	97,997	101,535	105,539	110,264
Minorities etc.	9,375	9,136	9,455	9,774	10,123
Total shareholders' equity	107,403	107,133	110,990	115,313	120,388
Long term debt	55,080	35,497	35,497	32,497	31,497
Other long-term liabilities	37,922	37,722	37,722	37,722	37,722
Long-term liabilities A/C payable	93,002 11,577	73,218 6,393	73,218 4,788	70,218 4,803	69,218 3,876
Short term debt	15,265	26,075	26,075	26,075	26,075
Other current liabilities	2,331	1,505	527	516	439
Current liabilities	29,173	33,973	31,390	31,394	30,391
Total liabilities and shareholders' equity	229,578	214,325	215,598	216,926	219,997
Net working capital	7,235	10,157	10,407	10,250	9,396
Invested capital * Includes convertibles and preferred stock which is b	181,329	182,864	202,409	206,969	210,712
<u> </u>	cing treated as dept				
Per share (THB) Book value per share	45.07	45.06	46.68	48.52	50.70
•	36.10	36.20	37.82	39.67	41.84
landible book value per snare					
Tangible book value per share Financial strength					
Financial strength	33.5	35.5	48.4	46.8	43.7
Financial strength Net debt/equity (%)		35.5 17.7	48.4 24.9	46.8 24.9	
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x)	33.5 15.7 1.9	17.7 1.2	24.9 0.8	24.9 0.6	23.9 0.6
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x)	33.5 15.7 1.9 19.6	17.7 1.2 (1.7)	24.9 0.8 (3.1)	24.9 0.6 1.3	23.9 0.6 2.3
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation	33.5 15.7 1.9 19.6 2022	17.7 1.2 (1.7) 2023	24.9 0.8 (3.1) 2024E	24.9 0.6 1.3 2025E	23.9 0.6 2.3 2026 E
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) *	33.5 15.7 1.9 19.6 2022 11.4	17.7 1.2 (1.7) 2023 12.8	24.9 0.8 (3.1) 2024E 9.5	24.9 0.6 1.3 2025E 8.4	23.9 0.6 2.3 2026E 7.7
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) *	33.5 15.7 1.9 19.6 2022 11.4 13.5	17.7 1.2 (1.7) 2023 12.8 15.2	24.9 0.8 (3.1) 2024E 9.5 11.2	24.9 0.6 1.3 2025E 8.4 9.9	23.9 0.6 2.3 2026E 7.7 9.1
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x)	33.5 15.7 1.9 19.6 2022 11.4	17.7 1.2 (1.7) 2023 12.8	24.9 0.8 (3.1) 2024E 9.5	24.9 0.6 1.3 2025E 8.4	23.9 0.6 2.3 2026E 7.7 9.1
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%)	33.5 15.7 1.9 19.6 2022 11.4 13.5 11.5	17.7 1.2 (1.7) 2023 12.8 15.2 12.8	24.9 0.8 (3.1) 2024E 9.5 11.2 9.5	24.9 0.6 1.3 2025E 8.4 9.9 8.4	23.9 0.6 2.3 2026E 7.7 9.1
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	33.5 15.7 1.9 19.6 2022 11.4 13.5 11.5 5.2	17.7 1.2 (1.7) 2023 12.8 15.2 12.8 5.2	24.9 0.8 (3.1) 2024E 9.5 11.2 9.5 5.6	24.9 0.6 1.3 2025E 8.4 9.9 8.4 5.9 0.6 0.8	23.9 0.6 2.3 2026E 7.7 9.1 7.7 5.9 0.6
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x) EV/EBITDA (x) **	33.5 15.7 1.9 19.6 2022 11.4 13.5 11.5 5.2 0.7 0.8 18.6	17.7 1.2 (1.7) 2023 12.8 15.2 12.8 5.2 0.7 0.8 15.7	24.9 0.8 (3.1) 2024E 9.5 11.2 9.5 5.6 0.7 0.8 18.3	24.9 0.6 1.3 2025E 8.4 9.9 8.4 5.9 0.6 0.8 20.4	23.9 0.6 2.3 2026E 7.7 9.1 7.7 5.9 0.6 0.7 19.8
Financial strength Net debt/equity (%) Net debt/total assets (%) Current ratio (x) CF interest cover (x) Valuation Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	33.5 15.7 1.9 19.6 2022 11.4 13.5 11.5 5.2 0.7 0.8	17.7 1.2 (1.7) 2023 12.8 15.2 12.8 5.2 0.7 0.8	24.9 0.8 (3.1) 2024E 9.5 11.2 9.5 5.6 0.7 0.8	24.9 0.6 1.3 2025E 8.4 9.9 8.4 5.9 0.6 0.8	23.9 0.6 2.3 2026E 7.7 9.1 7.7 5.9

Sources: Ratch Group; FSSIA estimates

RATCH Group PCL (RATCH TB)



Exhibit 13: FSSIA ESG score implication

64.27 / 100

Rating	Score	Implication
****	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
***	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
***	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
**	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
*	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

Exhibit 14: ESG – peer comparison

	FSSIA		Domestic ratings					Global ratings						Bloomberg	
	ESG score	DJSI	SET ESG	SET ESG Rating	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	67.71	5.69	4.38	4.05	4.77	4.43	4.02	Medium	57.34	BBB	22.70	60.82	67.31	1.19	35.34
Coverage	66.17	5.16	4.33	3.94	4.81	4.43	3.83	Medium	56.41	BBB	18.92	59.20	65.82	1.38	35.46
BCPG	62.74		Υ	AA	5.00	5.00	Certified	Medium	61.24	Α		55.65	31.00		59.11
BGRIM	65.91		Y	AAA	5.00	5.00	Certified	High	62.27	BBB		54.54	84.00		73.28
GULF	59.23		Y	AA	5.00	5.00	Certified	High	58.96	В		53.88	66.00		62.42
GPSC	71.89	Y	Y	AA	5.00	5.00	Certified	Medium	64.56	В		54.57	86.00		
RATCH	64.27		Y	AA	5.00	5.00	Certified	High	56.12	ВВ		55.73	62.00	4.79	72.90

Sources: <u>SETTRADE.com</u>; FSSIA's compilation

Exhibit 15: ESG score by Bloomberg

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
ESG financial materiality scores - ESG score	3.93	4.45	4.35	4.84	4.60	4.45	4.79	4.79
BESG environmental pillar score	2.96	3.78	3.03	4.13	3.61	3.21	3.67	3.90
BESG social pillar score	4.21	4.64	5.90	5.75	5.75	5.75	5.75	5.38
BESG governance pillar score	5.45	5.48	5.30	5.18	5.25	5.47	5.90	5.81
ESG disclosure score	63.62	63.62	67.00	67.42	68.23	70.21	68.59	72.90
Environmental disclosure score	58.53	58.53	61.91	62.58	64.00	69.95	65.09	78.62
Social disclosure score	42.35	42.35	49.12	49.73	50.76	50.76	50.76	50.15
Governance disclosure score	89.86	89.86	89.86	89.86	89.86	89.86	89.86	89.86
Environmental								
Emissions reduction initiatives	Yes							
Climate change policy	Yes							
Climate change opportunities discussed	No	No	No	Yes	Yes	No	No	No
Risks of climate change discussed	No	No	No	Yes	Yes	Yes	Yes	Yes
GHG scope 1	14,109	8,093	6,936	5,875	6,259	6,412	8,516	4,984
GHG scope 2 location-based	39	37	34	44	27	39	31	28
GHG Scope 3	_	_	_	_	3	2,662	3,113	1,549
Carbon per unit of production	0	0	0	0	0	0	0	0
Biodiversity policy	Yes							
Energy efficiency policy	Yes							
Total energy consumption	47,943	48,000	41,767	35,690	37,689	20,667	26,666	14,532
Renewable energy use	_	_	_	_	_	0	_	_
Electricity used	65	62	55	69	48	73	71	77
Fuel used - natural gas	7,462,580	4,578,520	4,008,940	3,423,600	3,616,110	3,439,980	4,224,940	2,482,650

 $Sources: Bloomberg; FSSIA's \ compilation$

Exhibit 16: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Fuel used - crude oil/diesel	No	No	No	No	No	No	No	No
Waste reduction policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hazardous waste	1	1	0	0	0	0	0	1
Total waste	8	7	3	19	4	5	31	32
Waste recycled	6	5	3	18	4	5	6	5
Waste sent to landfills	0	0	0	0	0	0	0	1
Environmental supply chain management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water consumption	_	_	15,720	13,020	13,730	13,640	18,590	11,930
Social								
Human rights policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Policy against child labor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quality assurance and recall policy	No	No	No	No	Yes	Yes	Yes	Yes
Consumer data protection policy	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Equal opportunity policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gender pay gap breakout	No	No	No	No	No	No	No	No
Pct women in workforce	33	33	33	33	34	34	32	32
Pct disabled in workforce	_	_	_	_	_	_	_	_
Business ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Anti-bribery ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Health and safety policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lost time incident rate - employees	0	0	0	0	0	0	0	0
Total recordable incident rate - employees	1	0	0	0	0	0	0	0
Training policy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fair remuneration policy	No	No	No	No	No	No	No	No
Number of employees – CSR	439	445	453	462	468	474	520	565
Employee turnover pct	8	14	6	7	13	5	5	5
Total hours spent by firm - employee training	10,820	19,129	21,291	17,001	12,170	11,139	15,600	22,385
Social supply chain management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Governance								
Board size	13	13	13	12	12	12	12	10
No. of independent directors (ID)	7	6	7	6	6	6	6	6
No. of women on board	2	2	2	1	2	3	3	2
No. of non-executive directors on board	12	12	12	11	11	11	11	9
Company conducts board evaluations	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
No. of board meetings for the year	13	12	14	12	12	13	14	13
Board meeting attendance pct	96	94	97	97	99	100	100	100
Board duration (years)	3	3	3	3	3	3	3	3
Director share ownership guidelines	No	No	No	No	No	No	No	No
Age of the youngest director	46	57	55	54	53	54	45	46
Age of the oldest director	66	67	69	70	71	70	71	70
No. of executives / company managers	11	11	11	11	12	10	10	16
No. of female executives	5	5	5	6	7	6	6	6
Executive share ownership guidelines	No	No	No	No	No	No	No	No
Size of audit committee	3	3	3	3	3	3	3	3
No. of ID on audit committee	3	3	3	3	3	3	3	3
		9	3 7	3 7		8	6	6
Audit meeting attendance %	95	94	100	100	6 100	100	100	100
Audit meeting attendance % Size of compensation committee	95 3	94 3	3	3	3	3	3	
•				ა 1				3
No. of ID on compensation committee	0	0	0	· ·	2	2	2	2
No. of compensation committee meetings	400	9	8	9	11	9	9	11
Compensation meeting attendance %	100	96	100	100	100	100	100	100
Size of nomination committee	3	3	3	3	3	3	3	3
No. of nomination committee meetings	8	9	8	9	11	9	9	11
Nomination meeting attendance %	100	96	100	100	100	100	100	100
Sustainability governance								
Verification type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Sources: Bloomberg; FSSIA's compilation

Disclaimer for ESG scoring

ESG score	Methodolog	ly			Rating						
The Dow Jones Sustainability Indices (DJSI) By S&P Global	process bas from the anr Only the top inclusion.	ed on the compa nual S&P Global -ranked compan	nsparent, rules-based anies' Total Sustainabil Corporate Sustainabili ies within each industr	ity Scores resulting ty Assessment (CSA). y are selected for	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Glob ESG Score of less than 45% of the S&P Global ESG Score of the highes scoring company are disqualified. The constituents of the DJSI indices ar selected from the Eligible Universe.						
SET ESG Ratings List (SETESG) by The Stock Exchange of Thailand (SET)	managing b Candidates 1) no irregul float of >150 up capital. S 70%; 2) inde wrongdoing	usiness with tran must pass the pr ar trading of the shareholders, a ome key disqual ependent director related to CG, so	sibility in Environmental sparency in Governan- eemptive criteria, with board members and ex- ind combined holding in lifying criteria include: and free float violation cocial & environmental in nings in red for > 3 year	ce, updated annually. two crucial conditions: kecutives; and 2) free nust be >15% of paid- 1) CG score of below on; 3) executives' mpacts; 4) equity in	To be eligible for <u>SETESG inclusion</u> , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. <u>SETESG Index</u> is extended from the SET ESG Ratings companies whos 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight at maximum, and no cap for number of stocks.						
CG Score by Thai nstitute of Directors Association (Thai IOD)	annually by Thailand (SI	the Thai IOD, wit	n sustainable developr th support from the Sto are from the perspectiv	ck Exchange of	Good (80-89), and not rated for equitable treatr	3 for Good (70 or scores belo nent of shareh (5%); 4) disclo	ories: 5 for Excel 0-79), 2 for Fair (6 w 50. Weightings nolders (weight 2 ssure & transpare	60-69), 1 for P s include: 1) th 5% combined	ass (60-69), le rights; 2) and); 3) the role of		
AGM level By Thai Investors Association (TIA) with support from the SEC	treatment ar transparent out of five th criteria cove date (45%), circulation of s exercised. The and verifiability	It quantifies the extent to which shareholders' rights and equitable treatment are incorporated into business operations and information is transparent and sufficiently disclosed. All form important elements of two out of five the CG components to be evaluated annually. The assessment criteria cover AGM procedures before the meeting (45%), at the meeting date (45%), and after the meeting (10%). (The first assesses 1) advance circulation of sufficient information for voting; and 2) facilitating how voting rights can be exercised. The second assesses 1) the ease of attending meetings; 2) transparency and verifiability; and 3) openness for Q&A. The third involves the meeting minutes that should contain discussion issues, resolutions and voting results.)									
Fhai CAC By Thai Private Sector Collective Action Against Corruption CAC)	establishme policies. The (Companies of Declaration of Certification, in managers and	nt of key controls c Certification is of eciding to become of Intent to kick off an including risk assess	ecklist include corrupties, and the monitoring a good for three years. a CAC certified member standard to subsment, in place of policy are itshment of whistleblowing takeholders.)	and developing of art by submitting a mit the CAC Checklist for ad control, training of	passed Checkl	st will move for se members a	ed by a committe or granting certific re twelve highly i ichievements.	cation by the 0	CAC Council		
Morningstar Sustainalytics	based on an risk is unma regulatory filin	assessment of l naged. Sources to gs, news and other	rating provides an ove how much of a compar be reviewed include corp media, NGO reports/webs			score is the sum higher ESG risk		ed risk. The			
		ompany feedback, l uality & peer review	ESG controversies, issuer : /s.	feedback on draft ESG	0-10	10-20	20-30	30-40	40+		
ESG Book	positioned to the principle helps explai over-weighti	o outperform ove of financial mate n future risk-adju	stainable companies the rithe long term. The meriality including inform isted performance. Mathigher materiality and basis.	ethodology considers ation that significantly teriality is applied by	The total ESG scores using m	score is calcul ateriality-base	ated as a weight d weights. The s ndicating better p	ed sum of the core is scaled	features		
MSCI				anagement of financially their exposure to ESG ris					nethodology to		
	AAA	8.571-10.000	Landan			·r					
	AA	7.143-8.570	Leader:	leading its industry in m	anaging the most s	gnilicant ESG n	sks and opportunitie	28			
	Α	5.714-7.142			-1 411 -6				-141 1 - 41 4 -		
	BBB	4.286-5.713	Average:	a mixed or unexception industry peers	al track record of ma	anaging the mos	st significant ESG ris	sks and opportu	nities relative to		
	ВВ	2.857-4.285									
	В	1.429-2.856	Laggard:	lagging its industry base	ed on its high expos	ure and failure t	o manage significar	nt ESG risks			
	CCC	0.000-1.428	99****			a .anaro t	go o.griinodi				
Moody's ESG solutions	believes tha	t a company inte		take into account ESG o to its business model and medium to long term.							
Refinitiv ESG rating	based on pu	blicly available a	and auditable data. The	a company's relative ES score ranges from 0 to re 0 to 25 = poor; >25 to 50	100 on relative E	SG performar	nce and insufficie	nt degree of t			
S&P Global				suring a company's perf sification. The score ran			of ESG risks, op	portunities, ar	d impacts		
Bloomberg	ESG Score	s	core is based on Bloor	ating the company's agg nberg's view of ESG fina the weights are determin	incial materiality.	The score is	a weighted genei	ralized mean (power mean)		

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "CG Score"; 2) "AGM Level"; 3) "Thai CAC"; and 4) THSI. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

GENERAL DISCLAIMER

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History of change in investment rating and/or target price



BUY BUY 23-Feb-2022 BUY 60.00 02-Sep-2022 55.00 15-Nov-2022 57.00

FSSIA Research Team started covering this stock from 20-Dec-2024

Price and TP are in local currency

Source: FSSIA estimates

Global Power Synergy (GPSC TB) Dec-21 Jun-22 Dec-22 Jun-23 Dec-23 Jun-24 Dec-24 100 90 80 70 60 50 40 30 Global Power Synergy **Target Price** (THB)

Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
07-Feb-2022 06-May-2022 10-Nov-2022	BUY HOLD HOLD	90.00 70.00 68.50	13-Feb-2023 11-Sep-2023 25-Sep-2023	BUY BUY BUY	76.00 60.30 59.00	03-Dec-2024	BUY	51.00

Songklod Wongchai started covering this stock from 03-Dec-2024

Price and TP are in local currency

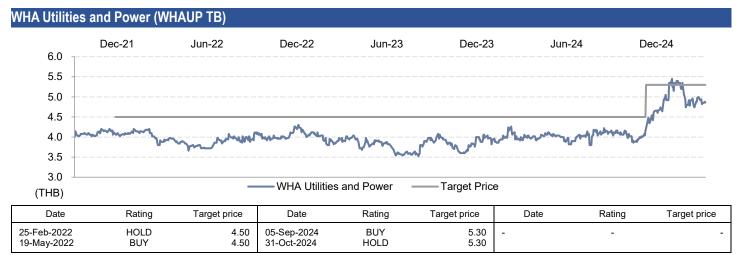
Source: FSSIA estimates



Songklod Wongchai started covering this stock from 07-Jun-2024

Price and TP are in local currency

Source: FSSIA estimates



Songklod Wongchai started covering this stock from 05-Sep-2024

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Ratch Group	RATCH TB	THB 30.50	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand; 2) lower crude prices; and 3) delays in starting new projects.
Global Power Synergy	GPSC TB	THB 40.25	BUY	The downside risks to our SoTP-based TP on GPSC include 1) lower-than-expected demand for electricity in Thailand; 2) higher-than-expected energy prices (i.e. coal and gas); and 3) lower-than-expected demand from industrial users.
CK Power	CKP TB	THB 3.10	BUY	The downside risks to our SoTP-based TP include lower-than-expected demand for electricity in Thailand and a lower-than-expected water supply for hydro projects.
WHA Utilities & Power	WHAUP TB	THB 4.78	HOLD	The downside risks to our SoTP-based TP include higher gas prices with lower electricity tariffs, pressured by government policies, resulting in significantly lower power margins. And upside risk to expanding new customer base from WHA industrial estates' expansion outlook, rising in water supply and electricity demand from factories in industrial estates, signing contracts to sell water to new customers, and higher water charges.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 19-Dec-2024 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (O). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.