

RATCH GROUP RATCH TB

THAILAND / UTILITIES - CONVENTIONAL

BUY

UNCHANGED

Solid 4Q21 results

- 4Q21 NP was THB2.1b (-0.3% y-y but +48% q-q), driven by improving earnings from IPPs.
- We expect NP growth to rise in 2022-23, backed by a higher utilisation rate for HPC and 137MW equity capacity growth.
- Maintain our BUY rating and TP of THB60.

TARGET PRICE	THB60.00
CLOSE	THB45.75
UP/DOWNSIDE	+31.1%
TP vs CONSENSUS	+23.4%

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	37,551	40,966	41,014	40,645
Net profit	7,772	13,116	12,966	13,070
EPS (THB)	5.36	5.91	5.84	5.89
vs Consensus (%)	-	37.1	26.9	-
EBITDA	4,920	10,472	11,097	11,618
Core net profit	7,815	13,116	12,966	13,070
Core EPS (THB)	5.39	5.91	5.84	5.89
Chg. In EPS est. (%)	nm	(0.3)	(2.9)	nm
EPS growth (%)	30.6	9.7	(1.1)	0.8
Core P/E (x)	8.5	7.7	7.8	7.8
Dividend yield (%)	5.8	7.4	8.0	8.0
EV/EBITDA (x)	20.7	12.6	11.9	11.4
Price/book (x)	0.9	0.9	0.9	0.8
Net debt/Equity (%)	35.8	19.5	18.6	18.3
ROE (%)	11.9	14.6	11.6	11.1

Strong operations underscored solid 4Q21 results

4Q21 net profit (NP) was THB2.1b, down 0.3% y-y but up 48% q-q, driven by improving earnings from independent power producers (IPPs) and an FX gain of THB160m. 4Q21 core NP was THB2.2b, up 18% y-y and 39% q-q, beating our forecast by 3% and BBG consensus by 10%. Share of profits were THB1.6b, up 17% y-y and 23% q-q on the q-q higher utilisation rate for Hongsa power plant (HPC). Key points are: 1) equity NP from HPC of THB910m (including a THB46m FX loss), down 10% y-y; 2) a THB47m equity loss from its coal-fired power plant in Vietnam due to the high coal price; 3) lower equity income from two hydropower plants, Nam Ngum 2 at THB6m (-81% y-y), offset by a higher NP from Xepian Xe-Namnoy at THB42m; and 4) higher revenues from two wind farms, Yandin and Collector, in Australia following their full-quarter operations, with a THB112m NP contribution from Yandin.

RAC and RCO were two key drivers

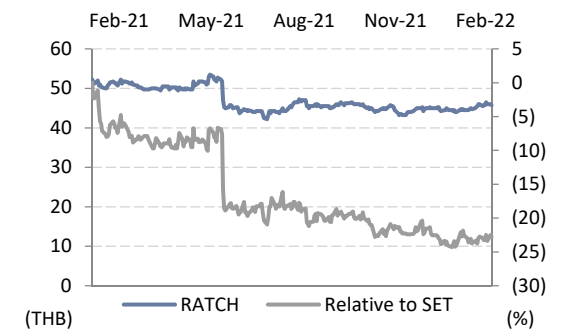
RG's revenue dropped 14% y-y in 4Q21 on lower availability payments from its planned shutdown, while revenue from RATCH-Australia (RAC) rose to THB956m (+43% y-y) due to the full operations of the two new wind farms, Yandin and Collector. RATCH Cogen (RCO) saw 17% higher y-y revenue of THB570m due to higher demand. RATCH's small power producers saw mixed NP results in 4Q21, including Berkprai (+THB7.9m y-y) and Navanakorn Electricity (+THB29m y-y) due to higher demand, to offset the weaker NP from RW Cogen (-THB3.4m y-y).

Stronger net profit ahead

We expect RATCH's NP growth to rise in 2022-23, premised on 1) our high utilisation rate assumption of 85-87% for HPC; and 2) equity capacity growth (137MW) from two coal-fired power plants, Thang Long and Paiton, the Guangxi Fangchenggang nuclear power plant in China (+236MW in 2021E), the Riau power plant in Indonesia (+146MW in 2021E) and HKP in Thailand (+700MW estimated in 2024-25).

Ready to recover in 2022

We maintain BUY and our SoTP-based TP of THB60. We think RATCH remains an attractive investment as a large-scale, IPP-driven company in Thailand with multiple growth projects.



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	4.0	0.0	(10.7)
Relative to country (%)	1.6	(2.5)	(22.0)
Mkt cap (USD m)	2,049		
3m avg. daily turnover (USD m)	4.7		
Free float (%)	43		
Major shareholder	EGAT (45%)		
12m high/low (THB)	53.75/42.00		
Issued shares (m)	1,450.00		

Sources: Bloomberg consensus; FSSIA estimates



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Exhibit 1: Summary of 4Q21/2021 operations

	4Q20	3Q21	4Q21		2020	2021	Chg. (y-y %)	
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y %)	(THB m)		(THB m)
Revenue	7,648	9,201	12,455	35.4	62.8	34,482	37,551	8.9
Operating costs	(6,500)	(7,957)	(11,224)	41.1	72.7	(28,396)	(30,972)	9.1
EBITDA	1,148	1,244	1,231	(1.0)	7.2	4,180	4,920	17.7
<i>EBITDA margin (%)</i>	<i>15.0</i>	<i>13.5</i>	<i>9.9</i>	<i>nm</i>	<i>nm</i>	<i>12.1</i>	<i>13.1</i>	<i>nm</i>
Depn & amort.	(449)	(570)	(608)	6.8	35.4	(1,833)	(2,144)	17.0
EBIT	699	674	622	(7.7)	(11.0)	2,348	2,776	18.2
Interest expense	(396)	(465)	(566)	21.8	42.9	(1,551)	(1,868)	20.4
Interest & invt inc	49.4	53.1	48.1	(9.4)	(2.7)	463.9	411.6	(11.3)
Other income	(0.6)	125.0	396.3	217.0	nm	149.9	778.0	418.8
Associates' contrib	1,327.7	1,306.4	1,584.4	21.3	19.3	4,600.3	5,902.4	28.3
Exceptional	249	(155)	160	nm	(35.8)	304	(43)	nm
Pretax profit	1,928	1,539	2,245	45.9	16.4	6,315	7,957	26.0
Tax	201	(101)	(115)	14.2	(157.1)	(28)	(178)	527.9
<i>Tax rate (%)</i>	<i>(10.4)</i>	<i>6.5</i>	<i>5.1</i>	<i>nm</i>	<i>nm</i>	<i>0.4</i>	<i>2.2</i>	<i>nm</i>
Minority interests	(0.0)	0.0	(6.6)	nm	nm	(0.0)	(6.6)	19,241.7
Net profit	2,129	1,438	2,123	47.6	(0.3)	6,287	7,772	23.6
Non-recurring	249	(155)	(89)	(42.4)	nm	304	(43)	nm
Core net profit	1,881	1,593	2,212	38.9	17.6	5,982	7,815	30.6
EPS (THB)	0.96	0.65	0.96	47.6	(0.3)	4.34	5.36	23.6
Core EPS (THB)	0.85	0.72	1.00	38.9	17.6	4.13	5.39	30.6

Sources: RATCH; FSSIA estimates

Exhibit 2: 4Q21/2021 – key performance

	4Q20	3Q21	4Q21	Change		2020	2021	Change (y-y%)
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y%)	(THB m)	(THB m)	
Revenue from sales and rendering of services	12,759	8,758	11,712	33.7	(8.2)	31,653	35,231	11.3
RG	11,584.3	6,878.7	9,951.8	44.7	(14.1)	26,840	28,992	8.0
RAC	670.3	1,205.1	956.0	(20.7)	42.6	2,685	3,734	39.1
RCO	488.4	656.8	570.4	(13.2)	16.8	2,066	2,219	7.4
FRD/SCG	-	-	216.1	nm	nm	-	216	nm
RL	16.1	17.7	17.8	0.6	10.8	62	69	11.7
Share of profits from associates and joint ventures	1,366	1,306	1,604	22.7	17.4	4,600	5,902	28.3
IPPs	963.2	782.4	880.9	12.6	(8.5)	3,289	3,829	16.4
SPPs	86.8	126.0	56.2	(55.4)	(35.2)	426	436	2.2
Hydropower plants	(65.3)	310.5	411.3	32.5	nm	69	1,093	1,483.6
Renewable	66.1	68.4	197.5	188.7	198.7	403	428	6.1
Infrastructure and others	315.0	19.2	57.5	200.0	(81.7)	413	117	(71.6)

Sources: RATCH; FSSIA estimates

Financial Statements

Ratch Group

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Revenue	34,482	37,551	40,966	41,014	40,645
Cost of goods sold	(28,396)	(30,972)	(28,651)	(28,687)	(27,807)
Gross profit	6,086	6,579	12,315	12,327	12,838
Other operating income	-	-	-	-	-
Operating costs	(1,906)	(1,659)	(1,843)	(1,230)	(1,219)
Operating EBITDA	4,180	4,920	10,472	11,097	11,618
Depreciation	(1,833)	(2,144)	(1,863)	(1,863)	(1,863)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,348	2,776	8,609	9,234	9,755
Net financing costs	(1,087)	(1,456)	(2,153)	(2,568)	(2,658)
Associates	4,600	5,902	7,382	6,997	6,355
Recurring non-operating income	4,750	6,680	8,238	7,938	7,390
Non-recurring items	304	(43)	0	0	0
Profit before tax	6,315	7,957	14,694	14,604	14,487
Tax	(28)	(178)	(1,459)	(1,518)	(1,298)
Profit after tax	6,287	7,779	13,235	13,085	13,189
Minority interests	0	(7)	(119)	(119)	(119)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	6,287	7,772	13,116	12,966	13,070
Non-recurring items & goodwill (net)	(304)	43	0	0	0
Recurring net profit	5,982	7,815	13,116	12,966	13,070
Per share (THB)					
Recurring EPS *	4.13	5.39	5.91	5.84	5.89
Reported EPS	4.34	5.36	5.91	5.84	5.89
DPS	2.45	2.65	3.40	3.65	3.65
Diluted shares (used to calculate per share data)	1,450	1,450	2,219	2,219	2,219
Growth					
Revenue (%)	(10.7)	8.9	9.1	0.1	(0.9)
Operating EBITDA (%)	(23.2)	17.7	112.8	6.0	4.7
Operating EBIT (%)	(40.1)	18.2	210.1	7.3	5.6
Recurring EPS (%)	(1.9)	30.6	9.7	(1.1)	0.8
Reported EPS (%)	5.4	23.6	10.3	(1.1)	0.8
Operating performance					
Gross margin inc. depreciation (%)	12.3	11.8	25.5	25.5	27.0
Gross margin of key business (%)	12.3	11.8	25.5	25.5	27.0
Operating EBITDA margin (%)	12.1	13.1	25.6	27.1	28.6
Operating EBIT margin (%)	6.8	7.4	21.0	22.5	24.0
Net margin (%)	17.3	20.8	32.0	31.6	32.2
Effective tax rate (%)	1.7	8.7	20.0	20.0	16.0
Dividend payout on recurring profit (%)	59.4	49.2	57.5	62.5	62.0
Interest cover (X)	6.5	6.5	7.8	6.7	6.5
Inventory days	23.5	21.7	23.3	22.4	22.8
Debtor days	55.6	67.6	81.4	85.0	89.4
Creditor days	48.5	66.7	94.1	90.4	91.9
Operating ROIC (%)	5.6	5.5	11.6	9.3	9.2
ROIC (%)	6.1	6.4	8.8	8.0	7.7
ROE (%)	10.0	11.9	14.6	11.6	11.1
ROA (%)	6.5	6.7	8.7	7.3	6.9
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)					
Domestic electricity generating	27,093	28,670	32,086	32,133	31,764
International power projects	2,456	2,456	2,456	2,456	2,456
Revenue from finance lease contracts	4,682	6,174	6,174	6,174	6,174
Others	251	251	251	251	251

Sources: Ratch Group; FSSIA estimates

Financial Statements

Ratch Group

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	5,982	7,815	13,116	12,966	13,070
Depreciation	1,833	2,144	1,863	1,863	1,863
Associates & minorities	4,600	5,902	7,382	6,997	6,355
Other non-cash items	-	-	-	-	-
Change in working capital	(3,066)	2,177	(1,112)	(407)	(541)
Cash flow from operations	9,349	18,039	21,250	21,419	20,747
Capex - maintenance	(1,833)	(2,144)	(1,863)	(1,863)	(1,863)
Capex - new investment	(5,371)	(6,748)	(33,137)	(5,137)	(5,137)
Net acquisitions & disposals	(7,490)	(10,032)	0	0	0
Other investments (net)	28,479	(11,372)	7,382	6,997	6,355
Cash flow from investing	13,785	(30,296)	(27,618)	(3)	(645)
Dividends paid	(3,254)	(3,253)	(4,727)	(7,545)	(8,100)
Equity finance	0	0	0	0	0
Debt finance	(13,821)	16,466	(5,000)	30,000	(10,000)
Other financing cash flows	(10,572)	1,148	16,124	(13,874)	(12,591)
Cash flow from financing	(27,646)	14,362	6,396	8,580	(30,691)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(4,512)	2,105	29	29,996	(10,590)
Free cash flow to firm (FCFF)	24,685.15	(10,388.92)	(4,096.27)	24,102.51	23,388.41
Free cash flow to equity (FCFE)	(1,258.91)	5,357.71	4,755.79	37,541.21	(2,489.38)

Per share (THB)

FCFF per share	17.02	(7.16)	(2.83)	16.62	16.13
FCFE per share	(0.87)	3.69	3.28	25.89	(1.72)
Recurring cash flow per share	8.56	10.94	10.08	9.84	9.59

Balance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Tangible fixed assets (gross)	46,564	60,890	95,890	102,890	109,890
Less: Accumulated depreciation	(17,085)	(24,663)	(26,526)	(28,389)	(30,252)
Tangible fixed assets (net)	29,479	36,228	69,364	74,501	79,638
Intangible fixed assets (net)	3,454	4,708	4,708	4,708	4,708
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	41,035	51,067	51,067	51,067	51,067
Cash & equivalents	4,857	6,961	6,990	36,986	26,396
A/C receivable	4,982	8,934	9,344	9,754	10,160
Inventories	1,783	1,902	1,759	1,762	1,707
Other current assets	6,863	7,518	8,202	8,212	8,138
Current assets	18,485	25,316	26,295	56,713	46,402
Other assets	19,680	37,537	37,537	37,537	37,537
Total assets	112,132	154,855	188,971	224,526	219,352
Common equity	60,521	70,290	109,448	114,869	119,839
Minorities etc.	1	7,520	7,639	7,758	7,876
Total shareholders' equity	60,522	77,810	117,086	122,626	127,715
Long term debt	16,768	26,745	26,745	56,745	46,745
Other long-term liabilities	27,965	30,031	30,031	30,031	30,031
Long-term liabilities	44,733	56,776	56,776	86,776	76,776
A/C payable	3,643	7,677	7,101	7,110	6,892
Short term debt	1,546	8,035	3,035	3,035	3,035
Other current liabilities	1,688	4,558	4,972	4,978	4,933
Current liabilities	6,877	20,270	15,109	15,124	14,861
Total liabilities and shareholders' equity	112,132	154,855	188,971	224,526	219,352
Net working capital	8,297	6,120	7,232	7,639	8,180
Invested capital	101,945	135,659	169,908	175,452	181,130

* Includes convertibles and preferred stock which is being treated as debt

Per share (THB)

Book value per share	41.74	48.48	49.32	51.76	54.00
Tangible book value per share	39.36	45.23	47.20	49.64	51.88

Financial strength

Net debt/equity (%)	22.2	35.8	19.5	18.6	18.3
Net debt/total assets (%)	12.0	18.0	12.1	10.2	10.7
Current ratio (x)	2.7	1.2	1.7	3.7	3.1
CF interest cover (x)	4.8	9.3	18.6	17.6	2.0

Valuation	2020	2021	2022E	2023E	2024E
Recurring P/E (x) *	11.1	8.5	7.7	7.8	7.8
Recurring P/E @ target price (x) *	14.5	11.1	10.2	10.3	10.2
Reported P/E (x)	10.6	8.5	7.7	7.8	7.8
Dividend yield (%)	5.4	5.8	7.4	8.0	8.0
Price/book (x)	1.1	0.9	0.9	0.9	0.8
Price/tangible book (x)	1.2	1.0	1.0	0.9	0.9
EV/EBITDA (x) **	19.1	20.7	12.6	11.9	11.4
EV/EBITDA @ target price (x) **	24.0	24.9	15.6	14.8	14.2
EV/invested capital (x)	0.8	0.7	0.8	0.8	0.7

* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income

Sources: Ratch Group; FSSIA estimates

Corporate Governance report of Thai listed companies 2020

EXCELLENT LEVEL										
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AOT	AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS
BEC	BEM	BGRIM	BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG
CENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN
COTTO	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC
DV8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT
FSMART	GBX	GC	GCAP	GEL	GFPT	GGC	GPSC	GRAMMY	GUNKUL	HANA
HARN	HMPRO	ICC	ICI	III	ILINK	INTUCH	IRPC	IVL	JKN	JSP
JWD	K	KBANK	KCE	KKP	KSL	KTB	KTC	LANNA	LH	LHFG
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	METCO	MFEC	MINT
MONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
NYT	OISHI	ORI	OTO	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET
PLAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QTC	RATCH	RS	S	S & J	SAAM
SABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC
SEAFCO	SEOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC
SONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA
SVI	SYMC	SYNTEC	TACC	TASCO	TCAP	TFMAMA	THANA	THANI	THCOM	THG
THIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
TNL	TOA	TOP	TPBI	TQM	TRC	TRC	TSC	TSR	TSTE	TSTH
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
VGI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		

VERY GOOD LEVEL										
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAHA	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	B	BA	BAM	BBL
BFIT	BGC	BJC	BJCHI	BROOK	BTW	CBG	CEN	CGH	CHARAN	CHAYO
CHG	CHOTI	CHOW	CI	CIG	CMC	COLOR	COM7	CPL	CRC	CRD
CSC	CSP	CWT	DCC	DCON	DDD	DOD	DOHOME	EASON	EE	ERW
ESTAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
IMH	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
JCKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
L&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	M	MACO	MAJOR
MBAX	MEGA	META	MFC	MGT	MILL	MITISB	MK	MODERN	MTI	MVP
NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
PDI	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT
QLT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE
SAWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE
SKR	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC
SSF	STANLY	STI	STPI	SUC	SUN	SYNEX	T	TAE	TAKUNI	TBSP
TCC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC
TMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
TPS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
UPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIJK	WP	XO
YUASA	ZEN	ZIGA	ZMICO							

GOOD LEVEL										
7UP	A	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
B52	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR
BROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	CMO	CMR
CPT	CPW	CRANE	CSR	D	EKH	EP	ESSO	FMT	GIFT	GREEN
GSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
KCM	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
MDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
OCEAN	PAF	PF	PK	PLE	PMTA	POST	PPM	PRAKIT	PRECHA	PRIME
PROUD	PTL	RBF	RCI	RJH	ROJNA	RP	RPH	RSP	SF	SFLEX
SGP	SISB	SKN	SLP	SMART	SOLAR	SPG	SQ	SSP	STARK	STC
SUPER	SVOA	TC	TCCC	THMUI	TIW	TNH	TOPP	TPCH	TIPIP	TPLAS
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		

Description

Score Range

Excellent

90-100

Very Good

80-89

Good

70-79

Disclaimer:

The disclosure of the survey results of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey results may be changed after that date. FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive; ** delisted

Source: Thai Institute of Directors Association (IOD); FSSIA's compilation

Anti-corruption Progress Indicator 2020

CERTIFIED										
2S	ADVANC	AI	AIE	AIRA	AKP	AMA	AMANAHA	AP	AQUA	ARROW
ASK	ASP	AYUD	B	BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG
BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	CHOTI	CHOW	CIG	CIMBT	CM	CMC
COL	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DELTA	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FPI	FPT	FSS
FTE	GBX	GC	GCAP	GEL	GFPT	GGC	GJS	GPSC	GSTEEL	GUNKUL
HANA	HARN	HMPRO	HTC	ICC	ICHI	IFS	INET	INSURE	INTUCH	IRPC
ITEL	IVL	K	KASET	KBANK	KBS	KCAR	KCE	KGI	KKP	KSL
KTB	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	M	MAKRO
MALEE	MBAX	MBK	MBKET	MC	MCOT	MFC	MFEC	MINT	MONO	MOONG
MPG	MSC	MTC	MTI	NBC	NEP	NINE	NKI	NMG	NNCL	NSI
NWR	OCC	OCEAN	OGC	ORI	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPPM
PPS	PREB	PRG	PRINC	PRM	PSH	PSL	PSTC	PT	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QLT	QTC	RATCH	RML	RWI	S & J
SABINA	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SEAOIL	SE-ED	SELIC
SENA	SGP	SIRI	SITHAI	SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK
SPC	SPI	SPRC	SRICHA	SSF	SSSC	SST	STA	SUSCO	SVI	SYNTEC
TAE	TAKUNI	TASCO	TBSP	TCAP	TCMC	TFG	TFI	TFMAMA	THANI	THCOM
THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT	TTB	TMD	TMILL	TMT
TNITY	TNL	TNP	TNR	TOG	TOP	TPA	TPCORP	TPP	TRU	TSC
TSTH	TTCL	TU	TVD	TVI	TVO	TWPC	U	UBIS	UEC	UKEM
UOBKH	UWC	VGI	VIH	VNT	WACOAL	WHA	WHAUP	WICE	WIJK	XO
ZEN	TRUE									

DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	CHO	CI	COTTO	DDD	EA	EFORL	EP	ERW
ESTAR	ETE	EVER	FSMART	GPI	ILINK	IRC	J	JKN	JMART	JMT
JSP	JTS	KWG	LDC	MAJOR	META	NCL	NOBLE	NOK	PK	PLE
ROJNA	SAAM	SAPPE	SCI	SE	SHANG	SINGER	SKR	SPALI	SSP	STANLY
SUPER	SYNEX	THAI	TKS	TOPP	TRITN	TTA	UPF	UV	WIN	ZIGA

Level	
Certified	This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.
Declared	This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

Disclaimer:

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, FSS International Investment Advisory Company Limited does not confirm, verify, or certify the accuracy and completeness of the assessment results.

Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of June 24, 2019) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Source: The Securities and Exchange Commission, Thailand; * FSSIA's compilation

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Suwat Sinsadok, CFA, FRM, ERP FSS International Investment Advisory Securities Co., Ltd

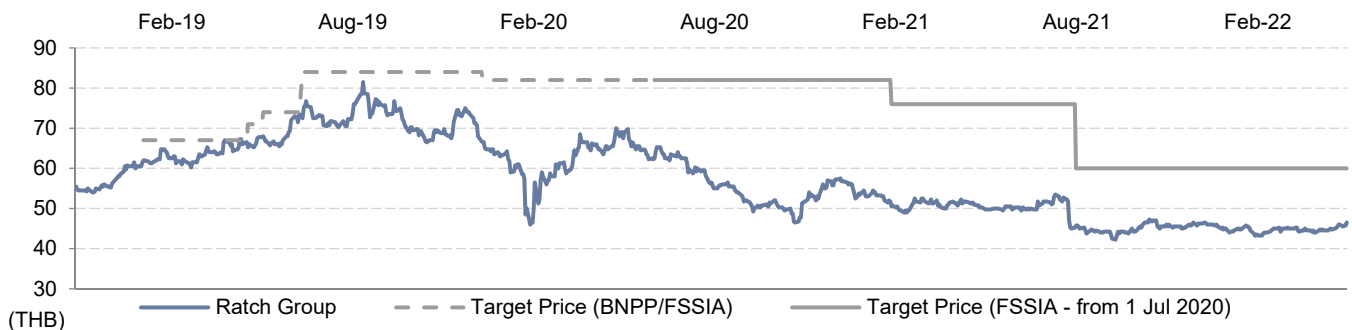
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History of change in investment rating and/or target price

Ratch Group (RATCH TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
18-Apr-2019	BUY	67.00	02-Sep-2019	BUY	84.00	28-Jun-2021	BUY	60.00
17-Jul-2019	HOLD	71.00	04-Feb-2020	BUY	82.00			
30-Jul-2019	HOLD	74.00	20-Jan-2021	BUY	76.00			

Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 26-Jun-2020

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Ratch Group	RATCH TB	THB 45.75	BUY	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.

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 Finasia Syrus Securities Public Company Limited

FSSIA may incorporate the recommendations and target prices of companies currently covered by FSS Research into equity research reports, denoted by an 'FSS' before the recommendation. FSS Research is part of Finasia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 22-Feb-2022 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as $(\text{target price}^* - \text{current price}) / \text{current price}$.

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.