

17 MAY 2022

EQUITY RESEARCH - RESULTS FLASH

ENERGY ABSOLUTE

THAILAND / UTILITIES - RENEWABLES

EA TB

BUY
 UNCHANGED

Stumble in 1Q22

- EA's 1Q22 net profit of THB1.37b (-3% y-y, -27% q-q) was due to lower wind production levels and biodiesel earnings.
- We think EA's net profit growth will accelerate starting in 2Q22, driven by the start-ups of its multiple S-curve growth projects.
- Maintain BUY and our SoTP-based TP of THB122.

Weak wind farm earnings and delay of EV delivery were culprits

EA's 1Q22 net profit (NP) of THB1.37b, down 3% y-y and 27% q-q, was 5% below our forecast and 10% below Bloomberg's consensus estimate due to the y-y lower production levels for wind farms and earnings from biodiesel, along with q-q lower revenue of THB64m from EA's new venture – the manufacturing and sales of batteries and e-buses in 1Q22. 1Q22 core NP came to THB1.36b, down 2% y-y and 27% q-q on lower earnings from EA's wind farms and solar farms due to lower electricity production levels and a delay in the production and delivery of e-buses.

EV delivery is on track for improvement in 2Q22

In 1Q22, EA generated revenue of THB64m from its battery and EV business, with an estimated net loss of THB50m from the sale of 30 e-buses vs our expectation of 100 e-buses due to a skilled workforce shortfall. However, in 2Q22 onward, management guided for a delivery of 300 EVs in 2Q22 and over 1,000 EVs in 2H22, as production is expected to ramp up. 1Q22 power sales dropped on a lower electricity sales volume of 145GW (-28% y-y, -34% q-q) from wind farms that was partly offset by a higher electricity sales volume of 170GWh for solar farms (+7% y-y, +9% q-q). The average selling price (ASP) for solar farms was at THB10/kWh (+2.8% y-y), and for wind farms the ASP was at THB6.4/kWh (+4% y-y). The 1Q22 biodiesel sales volume dropped 26% y-y to 31m litres due to the government's change in the biodiesel formula, but was offset by a 30% y-y higher ASP at THB49/litre.

Growth remains strong post 1Q22

We think EA's NP growth will accelerate starting in 2Q22 onward to boost its 2022-23 NP growth, driven by the start-ups of its multiple S-curve growth projects, which include an expected delivery of 2,000-3,000 e-buses in 2022 and the 1GWh battery phase 1 plant to capitalise on the captive demand for e-buses and e-trucks.

Top pick in Thailand's EV growth theme

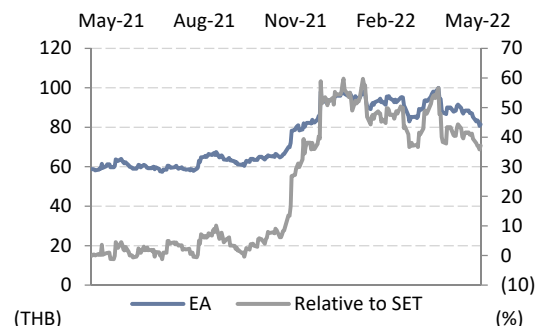
We maintain BUY and our SoTP-based TP of THB122. EA is our top pick in the Thai renewables sector for its strong NP outlook on its new S-curve growth projects, which we think will start to accelerate in 2022 onward.

FINANSIA
 FSS INTERNATIONAL INVESTMENT ADVISORY

TARGET PRICE THB122.00
 CLOSE THB81.50
 UP/DOWNSIDE +49.7%
 TP vs CONSENSUS +28.9%

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	20,174	33,947	49,993	65,576
Net profit	6,100	10,650	13,543	14,963
EPS (THB)	1.64	2.86	3.63	4.01
vs Consensus (%)	-	26.0	34.0	40.8
EBITDA	9,494	15,185	18,954	20,091
Core net profit	5,983	10,650	13,543	14,963
Core EPS (THB)	1.60	2.86	3.63	4.01
EPS growth (%)	16.1	78.0	27.2	10.5
Core P/E (x)	50.8	28.5	22.4	20.3
Dividend yield (%)	0.5	0.9	1.2	1.5
EV/EBITDA (x)	36.3	22.0	17.0	15.5
Price/book (x)	9.4	7.3	5.8	4.8
Net debt/Equity (%)	108.4	62.5	27.8	4.8
ROE (%)	19.8	28.7	28.8	25.8



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(9.4)	(12.4)	35.8
Relative to country (%)	(4.3)	(5.9)	32.8
Mkt cap (USD m)	8,742		
3m avg. daily turnover (USD m)	54.6		
Free float (%)	40		
Major shareholder	Mr. Somphote Ahunai (23%)		
12m high/low (THB)	105.50/57.00		
Issued shares (m)	3,730.00		

Sources: Bloomberg consensus; FSSIA estimates



Suwat Sinsadok, CFA, FRM, ERP
 suwat.sin@fssia.com
 +66 2611 3558

Siriluck Pinthusoonthorn
 siriluck.pin@fssia.com
 +66 2611 3562

The President of Finansia Syrus Securities PCL is also EA's Independent Director and on EA's Audit Committee.

Exhibit 1: Summary of 1Q22 operations

	1Q21 (THB m)	4Q21 (THB m)	1Q22			2021 (THB m)	2022E (THB m)	Chg.
			(THB m)	(q-q %)	(y-y %)			(y-y %)
Revenue	4,703	5,508	4,740	(13.9)	0.8	20,174	33,947	68.3
Operating costs	(2,233)	(3,067)	(2,458)	(19.9)	10.1	(9,242)	(16,385)	77.3
EBITDA	2,470	2,441	2,283	(6.5)	(7.6)	9,494	15,185	59.9
EBITDA margin (%)	52.5	44.3	48.2	nm	nm	47.1	44.7	(5.0)
Depn & amort.	(691)	(660)	(769)	16.5	11.3	(2,768)	(4,494)	62.4
EBIT	1,779	1,781	1,514	(15.0)	(14.9)	6,726	10,691	58.9
Interest expense	(391)	(295)	(310)	5.2	(20.6)	(1,388)	(1,282)	(7.6)
Interest & invt inc	-	-	-	nm	nm	-	-	nm
Other income	4	230	76	(66.9)	1,950.7	398	250	nm
Associates' contrib	(25)	40	2	(95.9)	nm	(4)	(3)	(25.0)
Exceptionals	32	(6)	8	nm	(74.7)	183	50	nm
Pretax profit	1,398	1,751	1,289	(26.4)	(7.8)	5,933	10,998	85.4
Tax	(38)	56	5	(91.2)	(113.0)	(17)	(16)	(5.9)
Tax rate (%)	2.7	(3.2)	(0.4)	nm	nm	0.3	0.1	(49.2)
Minority interests	51	75	72	(3.9)	40.1	171	(306)	nm
Net profit	1,412	1,881	1,366	(27.4)	(3.2)	6,100	10,650	74.6
Non-recurring	31	33	8	(75.8)	(74.0)	117	-	nm
Core net profit	1,381	1,848	1,358	(26.5)	(1.6)	5,983	10,650	78.0
EPS (THB)	0.38	0.50	0.37	(27.4)	(3.3)	1.64	2.86	74.6
Core EPS (THB)	0.37	0.50	0.36	(26.5)	(1.7)	1.60	2.86	78.0

Sources: EA; FSSIA estimates

Exhibit 2: 1Q22 key performance

	Unit	1Q21	4Q21	1Q22	Change	
					(q-q %)	(y-y %)
Biodiesel						
- Revenue	THB m	1,587	1,618	1,528	(5.5)	(3.7)
- Sales volume	m litre	42	38	31	(17.7)	(26.1)
- Average selling price	THB/litre	37.6	42.7	49.0	14.8	30.3
Glycerin						
- Revenue	THB m	56	135	157	16.5	178.8
- Sales volume	m kg	3	3	3	9.9	(0.3)
- Average selling price	THB/kg	18.0	47.6	50.5	6.1	179.7
Crude palm oil						
- Revenue	THB m	208.35	511.43	243.51	(52.4)	16.9
- Sales volume	m kg	7.33	10.1	4.82	(52.3)	(34.2)
- Average selling price	THB/kg	33.42	50.64	50.52	(0.2)	51.2
PCM						
- Revenue	THB m	0.52	5.95	12.67	112.9	2,336.5
- Sales volume	m kg	0.005	0.05	0.104	108.0	1,980.0
- Average selling price	THB/kg	105.05	119	122.25	2.7	16.4
Battery and Electric Vehicle						
- Revenue	THB m	31.5	350.42	64.14	(81.7)	103.6
Solar power						
- Revenue	THB m	1,537	1,512	1,695	12.1	10.3
- Sales volume	GWh	159	156	170	9.2	7.4
- Average selling price	THB/kWh	9.7	9.7	10.0	2.7	2.8
- Availability factor*	%	26	26	28	2.4	1.9
Wind power						
- Revenue	THB m	1,232	1,343	923	(31.3)	(25.1)
- Sales volume	GWh	202	219	145	(33.6)	(28.0)
- Average selling price	THB/kWh	6.1	6.1	6.4	3.6	4.1
- Availability factor*	%	24	26	17	(8.7)	(6.7)
Biogas						
- Revenue	THB m	4.31	5.16	3.43	(33.5)	(20.4)
- Sales volume	GWh	1.2	1.28	0.83	(35.2)	(30.8)
- Average selling price	THB/kWh	3.59	4.03	4.13	2.5	15.0

*Note: Change is represented in ppt change

Sources: EA; FSSIA estimates

Financial Statements

Energy Absolute

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Revenue	17,080	20,174	33,947	49,993	65,576
Cost of goods sold	(6,591)	(9,242)	(16,385)	(28,040)	(40,895)
Gross profit	10,489	10,931	17,561	21,954	24,682
Other operating income	-	-	-	-	-
Operating costs	(1,278)	(1,437)	(2,376)	(3,000)	(4,590)
Operating EBITDA	9,211	9,494	15,185	18,954	20,091
Depreciation	(2,730)	(2,768)	(4,494)	(5,300)	(5,300)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	6,480	6,726	10,691	13,654	14,791
Net financing costs	(1,627)	(1,322)	(1,232)	(1,128)	(1,061)
Associates	(61)	14	1,289	1,189	1,395
Recurring non-operating income	126	411	1,539	1,439	1,645
Non-recurring items	50	117	0	0	0
Profit before tax	5,029	5,933	10,998	13,965	15,375
Tax	18	(3)	(41)	(116)	(98)
Profit after tax	5,047	5,929	10,956	13,849	15,277
Minority interests	157	171	(306)	(305)	(314)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	5,205	6,100	10,650	13,543	14,963
Non-recurring items & goodwill (net)	(50)	(117)	0	0	0
Recurring net profit	5,155	5,983	10,650	13,543	14,963
Per share (THB)					
Recurring EPS *	1.38	1.60	2.86	3.63	4.01
Reported EPS	1.40	1.64	2.86	3.63	4.01
DPS	0.30	0.40	0.70	1.00	1.25
Diluted shares (used to calculate per share data)	3,730	3,730	3,730	3,730	3,730
Growth					
Revenue (%)	14.7	18.1	68.3	47.3	31.2
Operating EBITDA (%)	(3.3)	3.1	59.9	24.8	6.0
Operating EBIT (%)	(7.6)	3.8	58.9	27.7	8.3
Recurring EPS (%)	(12.7)	16.1	78.0	27.2	10.5
Reported EPS (%)	(14.4)	17.2	74.6	27.2	10.5
Operating performance					
Gross margin inc. depreciation (%)	45.4	40.5	38.5	33.3	29.6
Gross margin of key business (%)	45.7	41.0	38.5	33.3	29.6
Operating EBITDA margin (%)	53.9	47.1	44.7	37.9	30.6
Operating EBIT margin (%)	37.9	33.3	31.5	27.3	22.6
Net margin (%)	30.2	29.7	31.4	27.1	22.8
Effective tax rate (%)	-0.4	0.1	0.4	0.9	0.7
Dividend payout on recurring profit (%)	21.7	24.9	24.5	27.5	31.2
Interest cover (X)	4.1	5.4	9.9	13.4	15.5
Inventory days	44.1	45.7	46.2	47.0	50.0
Debtor days	57.9	58.3	41.5	31.2	27.0
Creditor days	18.2	14.4	11.2	11.4	12.1
Operating ROIC (%)	9.5	(2.3)	(3.5)	(4.5)	(5.0)
ROIC (%)	8.2	(1.9)	(3.2)	(4.0)	(4.4)
ROE (%)	20.1	19.8	28.7	28.8	25.8
ROA (%)	8.5	6.8	11.9	13.5	13.1
* Pre exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)					
Methyl ester Biodiesel products	6,570	6,570	6,570	6,570	6,570
Pure glycerine products	360	361	2,387	3,469	3,469
Electricity from solar and wind power	9,784	4,247	14,184	19,279	32,354
Head office and others	100	101	101	101	101

Sources: Energy Absolute; FSSIA estimates

Financial Statements

Energy Absolute

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	5,155	5,983	10,650	13,543	14,963
Depreciation	2,730	2,768	4,494	5,300	5,300
Associates & minorities	(61)	14	1,289	1,189	1,395
Other non-cash items	-	-	-	-	-
Change in working capital	4,045	(4,390)	(163)	(689)	(1,029)
Cash flow from operations	11,869	4,375	16,270	19,344	20,629
Capex - maintenance	(2,730)	(2,768)	(4,494)	(5,300)	(5,300)
Capex - new investment	(4,486)	(2,564)	(994)	(1,800)	(1,800)
Net acquisitions & disposals	(1,429)	(84)	0	0	0
Other investments (net)	(7,546)	(711)	1,289	1,189	1,395
Cash flow from investing	(16,192)	(6,127)	(4,199)	(5,911)	(5,705)
Dividends paid	(746)	(746)	(1,492)	(2,611)	(3,730)
Equity finance	0	0	0	0	0
Debt finance	(2,873)	1,904	(4,255)	(2,035)	(2,035)
Other financing cash flows	863	570	(334)	1,477	1,074
Cash flow from financing	(2,756)	1,728	(6,081)	(3,169)	(4,691)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(7,079)	(24)	5,990	10,264	10,234
Free cash flow to firm (FCFF)	(2,685.77)	(364.69)	13,352.81	14,611.11	16,035.47
Free cash flow to equity (FCFE)	(6,332.72)	721.90	7,481.97	12,874.77	13,963.85

Per share (THB)					
FCFF per share	(0.72)	(0.10)	3.58	3.92	4.30
FCFE per share	(1.70)	0.19	2.01	3.45	3.74
Recurring cash flow per share	2.10	2.35	4.41	5.37	5.81

Balance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Tangible fixed assets (gross)	67,122	70,852	74,352	77,852	81,352
Less: Accumulated depreciation	(11,265)	(12,431)	(16,925)	(22,225)	(27,525)
Tangible fixed assets (net)	55,857	58,421	57,426	55,627	53,827
Intangible fixed assets (net)	1,337	1,453	1,453	1,453	1,453
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	1,529	1,614	1,614	1,614	1,614
Cash & equivalents	2,951	2,927	8,917	19,181	29,415
A/C receivable	2,750	3,690	4,030	4,530	5,186
Inventories	833	1,483	2,663	4,557	6,647
Other current assets	855	3,549	5,972	8,795	11,537
Current assets	7,389	11,650	21,582	37,063	52,784
Other assets	12,371	12,339	12,339	12,339	12,339
Total assets	78,484	85,476	94,415	108,096	122,017
Common equity	27,812	32,501	41,609	52,492	63,675
Minorities etc.	1,815	2,601	2,907	3,212	3,527
Total shareholders' equity	29,627	35,102	44,516	55,704	67,201
Long term debt	31,090	33,777	29,522	27,487	25,452
Other long-term liabilities	4,203	3,921	3,921	3,921	3,921
Long-term liabilities	35,292	37,699	33,443	31,409	29,374
A/C payable	373	358	643	1,101	1,606
Short term debt	7,983	7,200	7,200	7,200	7,200
Other current liabilities	5,209	5,118	8,612	12,683	16,636
Current liabilities	13,564	12,676	16,455	20,984	25,442
Total liabilities and shareholders' equity	78,484	85,476	94,415	108,096	122,017
Net working capital	(1,143)	3,246	3,410	4,098	5,127
Invested capital	69,951	77,073	76,242	75,131	74,360

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

Per share (THB)					
Book value per share	7.46	8.71	11.16	14.07	17.07
Tangible book value per share	7.10	8.32	10.77	13.68	16.68

Financial strength					
Net debt/equity (%)	121.9	108.4	62.5	27.8	4.8
Net debt/total assets (%)	46.0	44.5	29.4	14.3	2.7
Current ratio (x)	0.5	0.9	1.3	1.8	2.1
CF interest cover (x)	(0.1)	3.5	7.9	14.0	15.9

Valuation	2020	2021	2022E	2023E	2024E
Recurring P/E (x) *	59.0	50.8	28.5	22.4	20.3
Recurring P/E @ target price (x) *	88.3	76.1	42.7	33.6	30.4
Reported P/E (x)	58.4	49.8	28.5	22.4	20.3
Dividend yield (%)	0.4	0.5	0.9	1.2	1.5
Price/book (x)	10.9	9.4	7.3	5.8	4.8
Price/tangible book (x)	11.5	9.8	7.6	6.0	4.9
EV/EBITDA (x) **	37.1	36.3	22.0	17.0	15.5
EV/EBITDA @ target price (x) **	53.5	52.2	32.0	25.0	23.0
EV/invested capital (x)	4.9	4.5	4.4	4.3	4.2

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

Sources: Energy Absolute; 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	ICHI	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	TSC	TSR	TSTE	TSTH	TTA
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	MITSIB	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	AMANA	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	WIIK	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

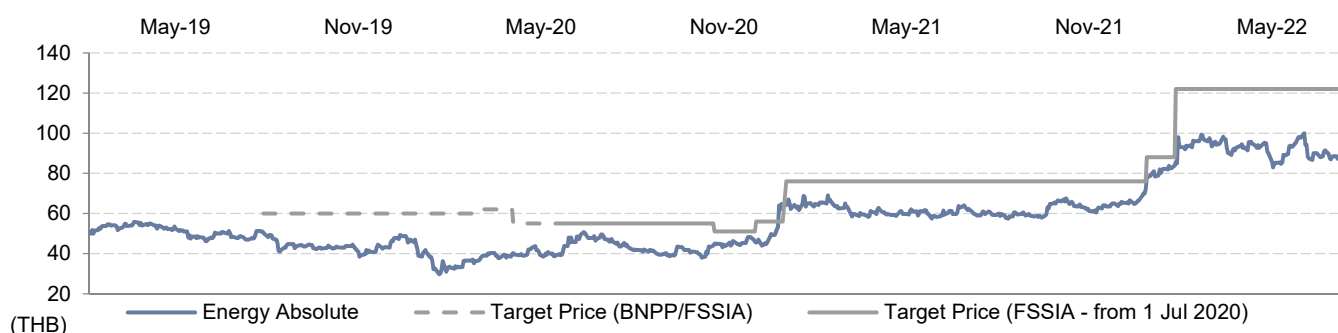
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

This report has been prepared by FSS International Investment Advisory Company Limited (FSSIA). The information herein has been obtained from sources believed to be reliable and accurate; however FSS makes no representation as to the accuracy and completeness of such information. Information and opinions expressed herein are subject to change without notice. FSS has no intention to solicit investors to buy or sell any security in this report. In addition, FSS does not guarantee returns nor price of the securities described in the report nor accept any liability for any loss or damage of any kind arising out of the use of such information or opinions in this report. Investors should study this report carefully in making investment decisions. All rights are reserved.

This report may not be reproduced, distributed or published by any person in any manner for any purpose without permission of FSSIA. Investment in securities has risks. Investors are advised to consider carefully before making investment decisions.

History of change in investment rating and/or target price

Energy Absolute (EA TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
17-Oct-2019	BUY	60.00	09-Nov-2020	BUY	51.00	18-Nov-2021	BUY	88.00
16-Apr-2020	BUY	62.00	15-Dec-2020	BUY	56.00	13-Dec-2021	BUY	122.00
20-May-2020	BUY	55.00	08-Jan-2021	BUY	76.00			

Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 09-Jul-2020

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Energy Absolute	EA TB	THB 81.50	BUY	Downside risks to our SoTP-based TP include: 1) lower-than-expected demand for electricity in Thailand; 2) lower crude prices; and 3) lower-than-expected demand for batteries.

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

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 Finansia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 13-May-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.