15 NOVEMBER 2021 THAILAND / UTILITIES - RENEWABLES

ENERGY ABSOLUTE EA TB







กำไรจากธุรกิจยานยนต์ไฟฟ้า (EV) มาถึงแล้ว

กำไรดีจากโรงไฟฟ้าพลังลม แบตเตอรี่ และรถโดยสารไฟฟ้า (e-bus)

EA รายงานกำไรสุทธิ (NP) 3Q21 ที่ 1.6พัน ลบ. (+44% y-y, +36% q-q) ต่ำกว่าที่เราคาด 2% แต่สูงกว่าที่ตลาดคาด 4% จากระดับการผลิตที่สูงขึ้นของโรงไฟฟ้าพลังลม กำไรที่สูงขึ้นจาก ธุรกิจไบโอดีเซล และ NP 139 ลบ. จากธุรกิจใหม่ของ EA กล่าวคือ การผลิตและขาย แบตเตอรี่และ e-bus (77 คันใน 3Q21) ใน 3Q21 NP จากการดำเนินงานอยู่ที่ 1.6พัน ลบ. (+44% y-y, +35% q-q) โรงไฟฟ้าพลังลมของ EA รายงานกำไรสูงขึ้นจากการผลิตไฟฟ้าที่เพิ่มขึ้น และราคาไบโอดีเซลที่สูงขึ้น

ในที่สุดธุรกิจ EV ก็มีกำไรใน 3Q21

ใน 3Q21 EA บันทึกรายได้ 557 ลบ. จากธุรกิจแบตเตอรี่และ EV ซึ่งคาดว่ามี NP 139 ลบ. จากการขาย e-bus จำนวน 77 คัน ผู้บริหารคาดว่าจะส่งมอบ e-buses และรถกระบะไฟฟ้า (e-truck) อีก 300 คันใน 4Q21 และยานยนต์ไฟฟ้ากว่า 2,000 คันในปี 2022 ยอดขายไฟฟ้าเพิ่ม 12% y-y จากปริมาณขายไฟฟ้าที่สูงขึ้นเป็น 211GWh (+34% y-y) ซึ่งช่วยชดเชยราคาขาย เฉลี่ย (ASP) ที่ลดลงของโรงไฟฟ้าพลังลมเป็น 6.0 บาท/kWh (-1.8% y-y) ปริมาณขายของ โรงไฟฟ้าพลังแสงอาทิตย์ลดลงเหลือ 146GWh (-2% y-y) พร้อม ASP ที่สูงขึ้นเป็น 9.8 บาท/kWh (+0.3% y-y) ปริมาณขายไบโอดีเซลลดลง 25% y-y เป็น 34ล้านลิตรจากผลกระทบของ Covid-19 แต่ชดเชยได้จาก ASP ที่สูงขึ้น 60% y-y เป็น 34.6 บาท/ลิตร

แนวโน้มการเติบโตในธุรกิจ EV หลายประการรออย่ข้างหน้า

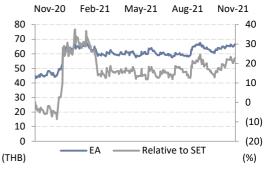
เราคิดว่าการเติบโตของ NP ของ EA จะเร่งตัวขึ้นตั้งแต่ 4Q21 ซึ่งจะกระตุ้นอัตราการเติบโต ของ NP เป็น 19% y-y ในปี 2022E และ 14% y-y ใน 2023E โดยจะได้ปัจจัยผลักดันจากการ เริ่มต้นของโครงการเพื่อการเติบโตในระดับสูงหลายโครงการ ประกอบด้วยการส่งมอบ e-bus จำนวน 200-300 คันซึ่งคาดว่าจะอยู่ใน 4Q21 และโรงผลิตแบตเตอรี่ขนาด 1GWh ระยะที่ 1 ใน เดือน ธ.ค. 21; การส่งมอบ EV จำนวน 2,000-3,000 คันในปี 2022; และการก่อสร้างสถานี ชาร์จ EV ที่กำลังดำเนินงานอยู่

อุตสาหกรรม EV ของไทยกำลังเติบโต (โดย EA)

เราคงคำแนะนำซื้อที่ราคาเป้าหมาย 76 บาท (SoTP) ซึ่งรวมถึงธุรกิจใหม่ ๆ ของบริษัทฯ EA เป็นหุ้นเด่นของเราในกลุ่มพลังงานหมุนเวียนของไทยจากแนวโน้ม NP ที่อยู่ในระดับสูงของ โครงการเพื่อการเติบโตในระดับสูงหลายโครงการ ซึ่งเราคิดว่าจะเริ่มเร่งตัวขึ้นตั้งแต่ 4Q21 เป็น ต้นไป เราคาดว่าการผลิตและการขายแบตเตอรี่และ EV ในช่วง 2H21 จนถึงปี 2022 จะเป็น ปัจจัยผลักดันการเติบโตกำไรที่สำคัญของ EA

KEY STOCK DATA

YE Dec (THB m)	2020	2021E	2022E	2023E
Revenue	17,080	24,179	33,496	49,254
Net profit	5,205	8,192	9,742	11,143
EPS (THB)	1.40	2.20	2.61	2.99
vs Consensus (%)	-	29.0	25.6	24.4
EBITDA	9,211	11,854	14,432	16,415
Core net profit	5,155	8,192	9,742	11,143
Core EPS (THB)	1.38	2.20	2.61	2.99
EPS growth (%)	(12.7)	58.9	18.9	14.4
Core P/E (x)	48.1	30.3	25.5	22.3
Dividend yield (%)	0.5	0.4	0.4	0.4
EV/EBITDA (x)	31.0	23.5	18.5	15.4
Price/book (x)	8.9	7.1	5.7	4.6
Net debt/Equity (%)	121.9	76.1	36.4	2.6
ROE (%)	20.1	26.1	24.8	22.8



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	3.9	13.2	48.6
Relative to country (%)	4.5	6.2	21.5
Mkt cap (USD m)			7,557
3m avg. daily turnover (USD m)			23.0
Free float (%)			40
Major shareholder	Mr. So	mphote Ah	unai (23%)
12m high/low (THB)		7	1.75/42.50
Issued shares (m)			3,730.00

Sources: Bloomberg consensus; FSSIA estimates



Suwat Sinsadok 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.

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Exhibit 1: Summary of 3Q21/9M21 operations

	3Q20	2Q21		3Q21		9M20	9M21	Chg.	2021E
	(THB m)	(THB m)	(THB m)	(q-q %)	(y-y %)	(THB m)	(THB m)	(y-y %)	(THB m)
Revenue	3,773	4,923	5,040	2.4	33.6	12,634	14,666	16.1	24,179
Operating costs	(1,629)	(2,690)	(2,572)	(4.4)	57.9	(5,889)	(7,496)	27.3	(10,633)
EBITDA	2,144	2,233	2,467	10.5	15.1	6,745	7,170	6.3	11,854
EBITDA margin (%)	56.8	45.4	49.0	nm	nm	53.4	48.9	(8.4)	49.0
Depn & amort.	(682)	(722)	(695)	(3.7)	1.9	(2,016)	(2,108)	4.6	(2,494)
EBIT	1,462	1,511	1,772	17.3	21.2	4,729	5,062	7.0	9,360
Interest expense	(421)	(379)	(323)	(14.6)	(23.3)	(1,262)	(1,093)	(13.4)	(1,753)
Interest & invt inc	-	-	-	nm	nm	-	-	nm	-
Other income	28	12	139	1,095.3	398.8	104	154	nm	101
Associates' contrib	(3)	(8)	6	nm	nm	(19)	(27)	42.8	(4)
Exceptionals	25	17	37	120.1	48.0	82	85	nm	-
Pretax profit	1,090	1,153	1,631	41.4	49.6	3,634	4,182	15.1	8,568
Tax	(4)	(12)	(9)	(27.7)	120.7	(12)	(59)	388.9	(17)
Tax rate (%)	0.4	1.1	0.5	nm	nm	(0.1)	0.5	nm	0.2
Minority interests	33	50	(5)	nm	nm	98	96	(2.7)	(320)
Net profit	1,119	1,191	1,616	35.7	44.4	3,720	4,219	13.4	8,192
Non-recurring	25	17	37	120.8	47.3	102	84	(17.4)	-
Core net profit	1,094	1,174	1,580	34.5	44.4	3,619	4,135	14.3	8,192
EPS (THB)	0.30	0.32	0.43	35.7	44.4	1.00	1.13	13.4	2.20
Core EPS (THB)	0.29	0.31	0.42	34.5	44.4	0.97	1.11	14.3	2.20

Sources: EA; FSSIA estimates

Exhibit 2: 3Q21/9M21 key performance

	Unit	3Q20	2Q21	3Q21	Change	9	9M20	9M21	Change
					(q-q %)	(y-y %)	ľ		(y-y %)
Biodiesel						İ			
- Revenue	THB m	970	1,401	1,167	(16.7)	20.3	3,850	4,155	7.9
- Sales volume	m litre	45	41	34	(18.6)	(24.8)	143	117	(17.8)
- Average selling price	THB/litre	21.6	33.8	34.6	2.3	59.9	27.0	35.4	31.3
Glycerin									
- Revenue	THB m	64	81	92	13.9	43.9	208	229	10.0
- Sales volume	m kg	4	3	3	(2.6)	(20.4)	12	9	(22.3)
- Average selling price	THB/kg	17.0	26.2	30.7	17.0	81.1	17.6	24.9	41.8
Crude palm oil									
- Revenue	THB m	203.58	644.42	427.79	(33.6)	110.1	434.49	1317.22	203.2
- Sales volume	m kg	10.23	19.9	11.21	(43.7)	9.6	21.28	38.45	80.7
- Average selling price	THB/kg	19.9	32.38	38.16	17.9	91.8	20.42	34.26	67.8
PCM									
- Revenue	THB m	0	24.08	10.85	(54.9)	nm	0	35.45	nm
Battery and Electric Vehicle						İ			
- Revenue	THB m	65.92	na	557.42	na	745.6	110.94	660.64	495.5
Solar power									
- Revenue	THB m	1,448	1,597	1,424	(10.8)	(1.6)	4,680	4,558	(2.6)
- Sales volume	GWh	149	167	146	(12.6)	(2.0)	479	572	19.4
- Average selling price	THB/kWh	9.7	9.6	9.8	2.0	0.3	9.8	9.7	(1.2)
- Availability factor*	%	24	27	24	(3.5)	(0.5)	79	94	15.3
Wind power									
- Revenue	THB m	968	989	1,277	29.2	32.0	3,111	3,498	12.4
- Sales volume	GWh	157	163	211	29.4	34.4	502	556	10.8
- Average selling price	THB/kWh	6.2	6.1	6.0	(0.2)	(1.8)	6.2	6.3	1.5
- Availability factor*	%	19	19	25	5.7	6.4	59	66	6.4
Biogas									
- Revenue	THB m	0	7.06	4.81	(31.9)	nm	3.54	16.18	357.1
- Sales volume	GWh	0	2.34	1.89	(19.2)	nm	1.24	5.43	337.9
- Average selling price	THB/kWh	0	3.02	2.54	(15.9)	nm	2.85	2.98	4.6

*Note: Change is represented in ppt change Sources: EA; FSSIA estimates

Financial Statements

Energy Absolute

Profit and Loss (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Revenue	14,887	17,080	24,179	33,496	49,254
Cost of goods sold	(4,413)	(6,591)	(10,633)	(16,719)	(29,883)
Gross profit	10,474	10,489	13,546	16,777	19,371
Other operating income	-	-	-	-	-
Operating costs	(946)	(1,278)	(1,693)	(2,345)	(2,955)
Operating EBITDA	9,528	9,211	11,854	14,432	16,415
Depreciation	(2,517)	(2,730)	(2,494)	(3,694)	(4,500)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	7,010	6,480	9,360	10,738	11,916
Net financing costs	(1,226)	(1,627)	(1,753)	(1,706)	(1,443)
Associates	(14)	(61)	860	983	985
Recurring non-operating income	53	126	961	1,084	1,086
Non-recurring items	178	50	0	0	0
Profit before tax	6,016	5,029	8,568	10,116	11,559
Тах	11	18	(55)	(45)	(111)
Profit after tax	6,027	5,047	8,513	10,071	11,448
Minority interests	55	157	(320)	(330)	(305)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	6,082	5,205	8,192	9,742	11,143
Non-recurring items & goodwill (net)	(178)	(50)	0	0	0
Recurring net profit	5,903	5,155	8,192	9,742	11,143
Per share (THB)					
Recurring EPS *	1.58	1.38	2.20	2.61	2.99
Reported EPS	1.63	1.40	2.20	2.61	2.99
DPS	0.25	0.30	0.25	0.25	0.25
Diluted shares (used to calculate per share data)	3,730	3,730	3,730	3,730	3,730
Growth					
Revenue (%)	28.9	14.7	41.6	38.5	47.0
Operating EBITDA (%)	37.8	(3.3)	28.7	21.8	13.7
Operating EBIT (%)	38.0	(7.6)	44.4	14.7	11.0
Recurring EPS (%)	51.2	(12.7)	58.9	18.9	14.4
Reported EPS (%)	22.2	(14.4)	57.4	18.9	14.4
Operating performance					
Gross margin inc. depreciation (%)	53.4	45.4	45.7	39.1	30.2
Gross margin of key business (%)	54.6	45.7	45.7	39.1	30.2
Operating EBITDA margin (%)	64.0	53.9	49.0	43.1	33.3
Operating EBIT margin (%)	47.1	37.9	38.7	32.1	24.2
Net margin (%)	39.7	30.2	33.9	29.1	22.6
Effective tax rate (%)	-0.2	-0.4	0.7	0.5	1.1
Dividend payout on recurring profit (%)	15.8	21.7	11.4	9.6	8.4
Interest cover (X)	5.8	4.1	5.9	6.9	9.0
Inventory days	45.0	44.1	37.6	38.0	36.3
Debtor days	67.1	71.4	56.6	47.0	38.0
Creditor days	67.5	64.0	58.1	58.8	56.1
Operating ROIC (%)	11.8	9.5	(3.4)	(4.0)	(4.8)
ROIC (%)	10.9	8.2	(3.0)	(3.5)	(4.0)
ROE (%)	28.4	20.1	26.1	24.8	22.8
ROA (%)	10.6	8.5	9.3	9.9	10.5
* Pre exceptional, pre-goodwill and fully diluted	10.0	0.0	0.0	0.0	10.0
Revenue by Division (THB m)	2019	2020	2021E	2022E	2023E
Methyl ester Biodiesel products	6,570	6,570	6,570	6,570	6,570
Pure glycerine products	350	360	361	361 45.750	361
Electricity from solar and wind power	7,957	9,784	8,252	15,759	21,648
Head office and others	100	100	101	101	101

Sources: Energy Absolute; FSSIA estimates

Financial Statements

Energy Absolute

Recurring per profit	Energy Absolute					
Dependiation 2.517 2.700 2.494 3.694 4.500 3.095	Cash Flow (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Dependiation 2.517 2.700 2.494 3.694 4.500 3.095	Recurring net profit	5 903	5 155	8 192	9.742	11 1/13
Associates A minorifies (14) (81) (80) (93) (98) (9	.				•	
Other non-sah himms	•					
Charge in working capital Capies - maintenance (1,245)		(17)	(01)	-	-	-
Cach flow from poperations (1246)		(9.651)	4.045	1.554	2.055	3.821
Capes - moniminarame (2.577) (2.730) (2.449) (3.894) (4.500) Capes - moniminarame (3.784) (4.486) (1.050) (1.096) (1.99) (1.99) (1.99) (1.99) (1.99) (1.99) (1.99) (2.905) (3.83) 385 Cash flow from investing of Mark (1.998) (4.486) (1.729) (6.729) (2.249) (2.2903) (4.515) Observation (1.998) (2.727) (2.733) (3.809) (1.989) (2.203) Copin framering cash flows 2.25 (2.873) (3.809) (1.0980) (2.203) Cash flow from financing (1.988) 1.2244 (2.756) 6.120 (1.3171) (2.623) Cash flow from financing (1.988) 4.851 (7.879) 16.582 388 13.302 Collect angistements 0 0 0 0 0 0 0 Movement In cash 4.851 (7.879) 16.582 388 13.302 17.270.680 13.302 14.242 17.282 17.282 17.282<	9 .	(, ,	,			
Capex - new Investment Capex - new Investment	-			•		
Net acquations & disposales (88) (1,429) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•			,		,
Other Investments (res) (44) (7,546) 560 933 4,585 Dicklanth borr form Investing paid (74) (746) (746) (11) (930) (933) Equity Infonce 12,725 (2,873) 8,639 (10,990) (2,005) Debit Infonce 12,725 (2,873) 8,639 (10,990) (2,005) Chair Informacy (action of the Informacy action (action of the Informacy action (action of the Informacy action of the Informacy action (action of Informacy) 2,225 883 (1,400) (1,628) 30,000 C0,005) C0,005) C0,005) C0,005 C0,005) C0,005 C0,005) C0,005 C0,005 C0,005) C0,005	·			,	, ,	0
Cash Now from Investing	Other investments (net)			860	983	985
Seally finance	Cash flow from investing	, ,		(2,640)	(2,905)	(4,515)
Debt finance	Dividends paid					(933)
Other Inflancing cash filows 225 883 (1,400) (1,214) 338 Non-recurring cash flows 1 21 4 2 5 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 <	Equity finance	0	0	0	0	0
Cash frow from financing 12,214 (2,756) 6,120 (13,171) (2,622) Other adjustments 0 <td< td=""><td>Debt finance</td><td>12,725</td><td>(2,873)</td><td>8,639</td><td>(10,990)</td><td>(2,035)</td></td<>	Debt finance	12,725	(2,873)	8,639	(10,990)	(2,035)
Non-recuming cash flovs Not clother adjustments 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other financing cash flows	235	863	(1,400)	(1,248)	336
Other adjustments 0	Cash flow from financing	12,214	(2,756)	6,120	(13,171)	(2,632)
Net other adjustments	Non-recurring cash flows	-	-	-	-	-
Movement in cash 4,551 (7,079) 16,582 398 13,302	Other adjustments	0	0	0	0	0
Fire cash flow to firm (FCFF)	Net other adjustments	0	0	0	0	0
Free cash flow to equity (FCFE)	Movement in cash	4,551	(7,079)	16,582	398	13,302
For share (THB) FCFF per share (1.68) FCFF per share (1.68) FCFE per share (1.69) FCFE per shar	Free cash flow to firm (FCFF)	(6,277.07)	(2,685.77)	12,214.99	15,274.42	17,376.56
FCFF per share (1.68)	Free cash flow to equity (FCFE)	5,296.76	(6,332.72)	17,700.69	1,330.39	14,234.69
FCFF per share (1.68)	Per share (THB)					
FOFE per share 1.42		(1 60)	(0.72)	2.27	4.10	1 66
Recurring cash flow per share	•	, ,				
Salance Sheet (THB m) Year Ending Dec 2019 2020 2021E 2022E 2022E 2022E 2022E 2023E						3.82 4.46
Tangible fixed assets (gross) 59,819 67,122 70,622 74,122 77,622 Less: Accumulated depreciation (8,448) (11,265) (13,759) (17,453) (21,953	- Toolanning caon non-poi onaro	2.20	20	0.10	0.07	
Less: Accumulated depreciation (8,448) (11,265) (13,759) (17,453) (21,933)	Balance Sheet (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Less: Accumulated depreciation (8,448) (11,265) (13,759) (17,453) (21,933)	Tangible fixed assets (gross)	59.819	67 122	70 622	74 122	77 622
Tanglibe fixed assets (net) Intangible fixed assets (net) Intangible fixed assets (net) Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Invest. in associates & subsidiaries Inventories Invest. in associates & subsidiaries Inventories Invest. in associates & subsidiaries Inventories Inventories Invest. in associates & subsidiaries Inventories ,,						
Intangible fixed assets (net)	•					
Long-term financial assets 1.00 1,529 1,				•	•	
Invest.in associates & subsidiaries 100		-	.,	.,	.,	.,
Cash & equivalents	•	100	1.529	1.529	1.529	1.529
AlC receivable 3,175 3,511 3,987 4,647 5,616 memortories 758 833 1,355 2,130 3,807 Other current assets 71 94 133 184 270 Current assets 71 94 133 184 270 Current assets 14,033 9,578 9,578 9,578 9,578 Other assets 1,033 9,578 9,578 9,578 5,878 7578 7518 5,878 7518 7518 7518 7518 7518 7518 7,187 7518 7518 7,187 7518 7,187 7518 7,187 7,187 7518 7,187						
Inventories 758	•					
Other current assets 7.1 9.4 1.33 1.84 2.70 Current assets 14,033 7,389 25,007 26,890 42,925 Other assets 1,033 9,578 7,578 9,578 7,579 7,007 7,007 7,007 7,007 7,007 7,007 7,007 7,007 7,007 7,009 7,009 7,009 7,009 7,	Inventories					
Current assets 14,033 7,389 25,007 26,890 42,925 Other assets 1,033 9,578 11,3832 Common equity 23,365 27,812 34,885 43,694 53,904 2,071 1018 2,136 2,465 2,771 1018 2,136 2,465 2,771 1018 2,136 2,465 2,771 1018 46,159 56,675 1009 1000						270
Total assets	Current assets	14,033	7,389		26,890	42,925
Common equity 23,365 27,812 34,885 43,694 53,904 Minorities etc. 1,502 1,815 2,136 2,465 2,771 Total shareholders' equity 24,866 29,627 37,021 46,159 56,675 Long term debt 36,977 31,090 39,729 28,739 26,704 Other long-term liabilities 2,306 4,203	Other assets	1,033	9,578	9,578	9,578	9,578
Common equity	Total assets	70,220	78,484	97,107	98,797	113,832
Total shareholders' equity	Common equity		27,812	34,885	43,694	53,904
Long term debt 36,977 31,090 39,729 28,739 26,704 Other long-term liabilities 2,306 4,203 4,203 4,203 4,203 4,203 A/CO availabilities 39,283 35,292 43,932 32,941 30,907 A/C payable 1,021 1,289 2,095 3,293 5,887 A/C payable 1,021 1,289 2,095 3,293 7,983 A/C payable 1,021 1,289 2,095 3,293 7,983 A/C payable 1,021 1,289 2,095 1,983 7,983 A/C payable 1,021 1,289 2,095 1,185 11,71 1,38,794 A/C payable 1,021 1,289 2,095 1,144 1,144 A/C payable 1,021 1,289 2,095 1,154 1,294 A/C payable 1,021 1,289 2,095 1,155 1,14 1,16 A/C payable 1,021 1,02	Minorities etc.	1,502			2,465	2,771
Other long-term liabilities 2,306 4,203 4,203 4,203 4,203 4,203 4,203 1,201 1,	Total shareholders' equity	24,866	29,627	37,021	46,159	56,675
Long-tern liabilities 39,283 35,292 43,932 32,941 30,907 A/C payable 1,021 1,289 2,095 3,293 5,887 Short term debt 4,968 7,983 6,262 62,250 7,010 7,13,30 26,392 1,113,302 2,332 2,31 2,51 1,14	Long term debt	36,977	31,090	39,729	28,739	26,704
A/C payable 1,021 1,289 2,095 3,293 5,887 Short term debt 4,968 7,983 7,983 7,983 7,983 7,983 Chrer current liabilities 81 4,293 6,078 8,420 12,381 Current liabilities 6,070 13,564 16,155 19,696 26,250 Total liabilities and shareholders' equity 70,220 78,484 97,107 98,797 113,832 Net working capital 2,902 (1,143) (2,698) (4,753) (8,574) Invested capital 59,089 69,951 69,403 67,154 62,332 *Includes convertibles and preferred stock which is being treated as debt Per share (THB) Book value per share 6.26 7,46 9,35 11,71 14,45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128,4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45,5 46,0 29,0 17,0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8,4 (0.1) 11,7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x)* 42.0 48,1 30.3 25,5 22.3 Recurring P/E (x) 40,8 47,7 4	Other long-term liabilities	2,306	4,203	4,203	4,203	4,203
Short term debt	Long-term liabilities	39,283	35,292	43,932	32,941	30,907
Other current liabilities 81 4,293 6,078 8,420 12,381 Current liabilities 6,070 13,564 16,155 19,696 26,250 Total liabilities and shareholders' equity 70,220 78,484 97,107 98,797 113,832 Net working capital 2,902 (1,143) (2,698) (4,753) (8,574) Invested capital 59,089 69,951 69,403 67,154 62,332 * Includes convertibles and preferred stock which is being treated as debt *** *** *** *** 69,951 69,403 67,154 62,332 *** Per share 6.26 7.46 9.35 11.71 14.45 14.45 14.45 14.45 13.34 15.17 14.45 14.45 13.34 15.17 14.45 <td>A/C payable</td> <td>1,021</td> <td>1,289</td> <td>2,095</td> <td>3,293</td> <td>5,887</td>	A/C payable	1,021	1,289	2,095	3,293	5,887
Current liabilities 6,070 13,564 16,155 19,696 26,250 Total liabilities and shareholders' equity 70,220 78,484 97,107 98,797 113,832 Net working capital 2,902 (1,143) (2,698) (4,753) (8,574) Invested capital 59,089 69,951 69,403 67,154 62,332 Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E	Short term debt	4,968	7,983	7,983	7,983	7,983
Total liabilities and shareholders' equity 70,220 78,484 97,107 99,797 113,832 Net working capital 2,902 (1,143) (2,698) (4,753) (8,574) Invested capital 59,089 69,951 69,403 67,154 62,332 Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 </td <td>Other current liabilities</td> <td>81</td> <td>4,293</td> <td>6,078</td> <td>8,420</td> <td>12,381</td>	Other current liabilities	81	4,293	6,078	8,420	12,381
Net working capital 2,902 (1,143) (2,698) (4,753) (8,574) Invested capital 59,089 69,951 69,403 67,154 62,332 *Includes convertibles and preferred stock which is being treated as debt Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 11.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/langible book (x) 12.6 10.5 8.1 6.3 5.0 EV/IEBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/IEBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/IEBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Current liabilities	6,070	13,564	16,155	19,696	26,250
Invested capital 59,089 69,951 69,403 67,154 62,332 * Includes convertibles and preferred stock which is being treated as debt Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x)* 48.0 55.0 34.6 29.1 25.5 Recurring P/E @ target price (x)* 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/langible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x)** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA (x)*** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x)** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Total liabilities and shareholders' equity	70,220	78,484	97,107	98,797	113,832
* Includes convertibles and preferred stock which is being treated as debt * Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 * Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 * Valuation 2019 2020 2021E 2022E 2023E * Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 * Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 EV/REITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0	Net working capital	2,902	(1,143)	(2,698)	(4,753)	(8,574)
Per share (THB) Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x)* 42.0 48.1 30.3 25.5 22.3 Recurring P/E @ target price (x)* 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/book (x) 10.6 8.9 7.1 5.7 4.6 EV/RBITDA (x)** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x)** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Invested capital	,	69,951	69,403	67,154	62,332
Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0 4.0	* Includes convertibles and preferred stock which is b	peing treated as debt				
Book value per share 6.26 7.46 9.35 11.71 14.45 Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0 4.0	Per share (THB)					
Tangible book value per share 5.28 6.35 8.25 10.61 13.34 Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0 4.0	` ,	6.26	7 46	0.25	11 71	1 <i>1 1 F</i>
Financial strength Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	•					
Net debt/equity (%) 128.4 121.9 76.1 36.4 2.6 Net debt/total assets (%) 45.5 46.0 29.0 17.0 1.3 Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0 4.0		5.∠ŏ	0.35	0.20	10.01	13.34
Net debt/total assets (%) Augustion Recurring P/E (x) * Recurring P/E (x) * Recurring P/E (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x) EV/EBITDA (x) ** EV/EBITDA (x) ** EV/Invested capital (x) Augustion A		100.4	401.0	70 1	20.1	2.5
Current ratio (x) 2.3 0.5 1.5 1.4 1.6 CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0						
CF interest cover (x) 8.4 (0.1) 11.7 1.9 11.6 Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Reported P/E (x) 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EDITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	. ,					1.3
Valuation 2019 2020 2021E 2022E 2023E Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0						
Recurring P/E (x) * 42.0 48.1 30.3 25.5 22.3 Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Gr interest cover (X)	8.4	(0.1)	11./	1.9	11.6
Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Valuation	2019	2020	2021E	2022E	2023E
Recurring P/E @ target price (x) * 48.0 55.0 34.6 29.1 25.4 Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Recurring P/E (x) *	42.0	48.1	30.3	25.5	22.3
Reported P/E (x) 40.8 47.7 30.3 25.5 22.3 Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Recurring P/E @ target price (x) *					25.4
Dividend yield (%) 0.4 0.5 0.4 0.4 0.4 Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Reported P/E (x)					22.3
Price/book (x) 10.6 8.9 7.1 5.7 4.6 Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) *** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Dividend yield (%)					0.4
Price/tangible book (x) 12.6 10.5 8.1 6.3 5.0 EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Price/book (x)					4.6
EV/EBITDA (x) ** 29.5 31.0 23.5 18.5 15.4 EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	Price/tangible book (x)					5.0
EV/EBITDA @ target price (x) ** 33.3 34.9 26.5 21.0 17.5 EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	EV/EBITDA (x) **					15.4
EV/invested capital (x) 4.8 4.1 4.0 4.0 4.0	EV/EBITDA @ target price (x) **					17.5
	EV/invested capital (x)					4.0
. To exceptioning pro-goderni and rany anatod — EDITER Chiefadoo accordate income and recomme non contrating machine						

Sources: Energy Absolute; FSSIA estimates

Corporate Governance report of Thai listed companies 2020

AV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AV AOT	ADVANC AP	AF ARIP	ARROW	ASP	BAFS	ALT BANPU	AMA BAY	BCP	BCPG	BDMS
					BLA		BPP		BTS	
BEC	BEM	BGRIM	BIZ	BKI		BOL		BRR		BWG
CENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN
COTTO	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC
OV8	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
_IT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	METCO	MFEC	MINT
MONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
NYT	OISHI	ORI	ОТО	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET
									PTG	
PLAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL		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	SEAOIL	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
ГНІР	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
ΓNL	TOA	TOP	TPBI	TQM	TRC	TSC	TSR	TSTE	TSTH	TTA
	TTW	TU			TVO	TWPC	U			UV
TTCL (C)			TVD	TVI				UAC	UBIS	υv
/GI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		
ERY GO	OD LEVEL									
:S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAH	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	В	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
STAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
MH	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
ICKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
-&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		TAKUNI	TBSP
								TAE		
CC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC
ΓMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
TPS .	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
JPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIIK	WP	XO
/UASA	ZEN	ZIGA	ZMICO							
COORLE	VEL									
OOD LE		ABICO	Λ.Ι	ΛΙ Ι	ALLICON	AN4C	A D D	ADIN	۸۶	AL!
'UP	A		AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
352	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
SSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
KCM	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
ИDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
DCEAN	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	TPIPP	TPLAS
ГΤΙ	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		
		Description						Score R	lange	
		Excellent						90-1	00	
		Very Good						80-8	39	

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.

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

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

Anti-corruption Progress Indicator 2020

CERTIFIED	,									
2S	ADVANC	Al	AIE	AIRA	AKP	AMA	AMANAH	AP	AQUA	ARROW
ASK	ASP	AYUD	В	BAFS	BANPU	BAY	BBL	ВСН	ВСР	BCPG
BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	CHOTI	CHOW	CIG	CIMBT	СМ	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	РВ	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									
DECLARE										
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 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.

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History of change in investment rating and/or target price



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
15-Nov-2018 26-Apr-2019 17-Oct-2019 16-Apr-2020	BUY BUY BUY BUY	56.00 66.00 60.00 62.00	20-May-2020 09-Jul-2020 17-Jul-2020 09-Nov-2020	BUY BUY BUY BUY	55.00 55.00 55.00 51.00	15-Dec-2020 08-Jan-2021	BUY BUY	56.00 76.00

Suwat Sinsadok started covering this stock from 15-Nov-2018

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Energy Absolute	EA TB	THB 66.50	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 12-Nov-2021 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.