28 SEPTEMBER 2021



Thailand Utilities

Biomass and biogas growth secured under PPC

ACE and CV emerge as two key winners of PPC

On 23 Sep-21, the Energy Regulatory Commission (ERC) announced the list of winners for the Power Plant for Community (PPC) scheme, comprising 42 projects. Of the 42 projects consisting of a total 150MW capacity, Absolute Clean Energy (ACE TB, BUY) won a total of 18 projects (50MW) and Clover Power (CV TB, BUY) won 3 projects (18MW). TPC Power Holding (TPCH TB, BUY) won no projects due to its lower cost competitiveness.

EIRR of 12-14% for the winning projects estimated, despite the low FiT

After the announcement of the PPC winners, the share prices of ACE and CV declined in opposition to the earnings upsides from the new PPC projects. We believe the main reason is the unclear project investment returns for the winning projects, as the discount pricing for the feed-in-tariff (FiT) bidding is high in the range of 30-80% of the fixed FiT. This implies that the final FiT would be in the range of THB2.8-3.5/kWh, based on our estimate. However, we think the EIRR of the winning projects for ACE and CV should remain above 10%, likely in the range of 12-14%, thanks to their investment cost competitiveness (CV is an engineering, procurement, and construction (EPC) company), high operational efficiency based on existing biomass power plants in operation, and their economies of scale benefits.

Earnings upsides for ACE and CV from the new PPC projects

We estimate that CV could add THB80m-120m net profit from the 3 projects won; a 40-60% upside to our net profit forecast of THB200m in 2022. We estimate that ACE should see an earnings upside of THB300m-400m annually, based on an EIRR of 11%; an upside of 20% from our current 2022E net profit of THB2b in 2022. ACE won 18 out of 29 project bids while CV won 3 out of 5, reflecting their cost competitiveness and operational efficiency.

More renewable growth opportunities in PDP 2022

We believe the 150MW biomass and biogas capacity under PPC is only the first renewable energy (RE) capacity growth upside for ACE and CV, and we expect the ERC to announce additional capacity, including biomass, biogas, wind, and waste-to-energy (WTE) power plants, within the next 12 months. The additional capacity could possibly be included in the new Power Development Plan 2022 (PDP 2022) currently being drafted. We think the market remains sceptical about the projects' feasibility, let alone profitability, based on the low FiT. However, many companies have competitive EPC capabilities (CV and ACE), are proven operators of biomass, WTE and wind power plants, and have ready-to-develop land for wind farms in Thailand (Energy Absolute (EA TB, BUY)), which should allow them to have a competitive edge in bidding for the RE capacity under the highly competitive tariff structure. In addition, the newly introduced 'loss of load expectation' (LOLE) in PDP 2022 should allow for a higher RE capacity on the grid, potentially over 20%.



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Exhibit 1: Bidding vs winning capacity under the Power Plant for Community (PPC) scheme

Company		Bidding ca	apacity		Current operating				Winning	No. of biomass	
	Total	Biomass	Biogas	No. of plants	Total	Solar	Wind	Biomass	Capacity	plants	
	(MW)	(MW)	(MW)	(no.)	(MW)	(MW)	(MW)	(MW)	(MW)	(no.)	
ACE	93	70	23	29	246	-	-	116	50	12	
TPCH	30	24	6	9	109			109	0	10	
GUNKUL	20	20	-	2	624	427	170	-	0	-	
SSP	15	15	-	3	196	196	-	-	0	-	
CV	24	24	-	4	15	-	-	15	18	3	

Sources: Companies; ERC; FSSIA estimates

Exhibit 2: Renewable capacity breakdown under PDP 2018 Rev. 1

Projects	PDP 2018	PDP 2018 Rev. 1
	(MW)	(MW)
Projects under government-supportive policy		
- WTE – community waste	400	400
- Biomass (Pracharat) for four southernmost provinces	120	120
- Power Plant for Community (PPC)	-	1,933
Subtotal	520	2,453
Projects under AEDP 2018		
Solar	10,000	8,740
Biomass	3,375	2,780
Biogas	546	400
Solar floating	2,725	2,725
Wind	1,485	1,485
WTE – industrial	44	44
Small hydro	-	69
Subtotal	18,175	16,243
Total	18,695	18,696

Source: Ministry of Energy

Exhibit 3: Feed-in-tariffs (FiT) for power plants under PPC

Fuel type	Tariff	PPA life	FiT premium for special zone
	(THB/kWh)	(year)	(THB/kWh)
Solar power	2.90	20	0.5
Biomass less than 3MW	4.85	20	0.5
Biomass more than 3MW	4.26	20	0.5
Biogas (waste-to-energy)	3.76	20	0.5
Biogas (energy crops)	5.37	20	0.5
Hybrid (waste-to-energy + energy crops)	4.73	20	0.5

Source: Ministry of Energy

Exhibit 4: Simplified LOLE power model

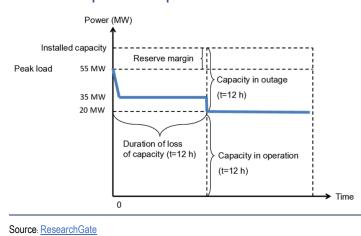
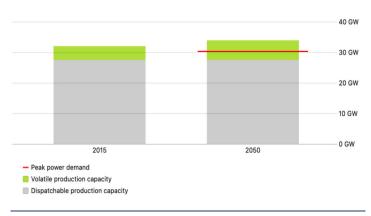


Exhibit 5: LOLE concept



Source: ResearchGate

Corporate Governance report of Thai listed companies 2020

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CLT	NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG	
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SKR	QLT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE	
STANLY	SAWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE	
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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.

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* 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,

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

and corruption SEC imposed a civil sanction against insider trading of director and executive; ** delisted

Anti-corruption Progress Indicator 2020

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BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	СНОТІ	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
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KTB	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	М	MAKRO
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SPC	SPI	SPRC	SRICHA	SSF	SSSC	SST	STA	SUSCO	SVI	SYNTEC
TAE	TAKUNI	TASCO	TBSP	TCAP	TCMC	TFG	TFI	TFMAMA	THANI	THCOM
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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)

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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

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FSS International Investment Advisory Securities Co., Ltd

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Company	Ticker	Price	Rating	Valuation & Risks
Absolute Clean Energy	ACE TB	THB 3.84	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand, 2) a lower crude price, and 3) higher costs of biomass feedstock.
TPC Power Holding	ТРСН ТВ	THB 11.10	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand, 2) a lower crude price, and 3) higher costs of biomass feedstock.
Gunkul Engineering	GUNKUL TB	THB 4.82	BUY	The downside risks to our SoTP-based TP on GUNKUL include 1) lower-than-expected demand for electricity in Thailand, 2) declining EPC backlogs, and 3) lower-than-expected utilisation rates for solar and wind farms.
Sermsang Power Corp	SSP TB	THB 12.30	BUY	The downside risks to our SoTP-based TP for SSP include 1) a lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) project start-up delays.
Clover Power	CV TB	THB 3.42	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand, 2) a lower crude price, and 3) higher costs of biomass feedstock.
Energy Absolute	EA TB	THB 62.75	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 27-Sep-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.