

# **Thailand Utilities - Renewables**

# New capacity for wind and solar coming soon

- EPPO has approved the opening of bids under PDP2018Rev1 for new renewable power generation projects scheduled to be operational in 2022-30.
- Under AEDP2018, the new capacity allowance for wind farms is 1,485MW, solar farms 3,368MW, and biogas 335MW.
- Our top picks in Thai renewable energy are EA, GULF, GUNKUL, and SSP.

## Up to 5.2GW in new renewable capacity up for grabs by 4Q22

On 6 May-22, the Energy Policy and Planning Office (EPPO), under Power Development Plan 2018 Revision 1 (PDP2018Rev1), approved the plan to open bidding for new renewable power projects that will commence their commercial operation dates (CODs) in 2022-30. Also, the Energy Regulatory Commission (ERC) has established the 2022-30 feed-in-tariff (FiT) structure covering non-firm power purchase agreements (PPAs) for renewable energy projects with a capacity of 90MW or less, including solar farms, wind farms, biogas (wastewater), and partial-firm PPAs for hybrid solar farms and battery energy storage systems (solar+BESS) with a PPA life of 20-25 years. Total PPA capacity will be 5.2GW for projects scheduled to COD during 2024-30.

## EIRR of 12-13% possible despite the new lower tariff rates

The winning bids will be based on four criteria including 1) competitive price; 2) entity qualifications (only private companies); 3) technical and financial qualifications; and 4) transmission constraints, in order of priority from the highest to the lowest: biogas (wastewater), wind farms, solar+BESS, and solar farms. The FiT structure will be the lowest ever for renewable energy projects in Thailand at THB2.07/kWh for biogas, THB3.1/kWh for wind farms, THB2.17/kWh for solar farms, and THB2.83/kWh for solar farms+BESS. With the sharp drop in the investment costs of solar farms, wind farms, and battery storage, we think an economic internal rate of return (EIRR) in the range of 12-13% is achievable.

#### Bidding to open on 1.5GW of wind, 3.4GW of solar

Under AEDP2018, the capacity allowance for wind farms was 1,485MW, slightly lower than the projected 1,500MW in new wind farm capacity up for bidding in the coming round. New solar farm capacity at 3,368MW is lower than the 8,740MW allowance under AEDP2018, while the 335MW for biogas is in line with the previous allocation of 400MW. The new solar farm+BESS allowance, with a capacity of 1GW, is being introduced for the first time by Thailand's ERC, given the faster-than-expected development of battery production facilities in Thailand. While these are mostly for electric vehicles (EVs), they can also be deployed as energy storage systems for renewables as well as conventional power plant projects.

## EA, GULF, GUNKUL, and SSP are best positioned to win

We expect Thai power companies to secure regulatory approval for new renewable energy capacity in the next few months, including EA, GUNKUL, SSP, and conventional fossil-fuel based power plant companies who plan to participate in the bidding for renewable projects. Our top picks in the Thai renewable industry are EA, GULF, GUNKUL, and SSP.



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

Siriluck Pinthusoonthorn

siriluck.pin@fssia.com +66 2611 3562

## New wind and solar capacity on the way

On 6 May-22, EPPO, under PDP2018Rev1, approved the plan to open a new round of bidding for additional renewable power capacity scheduled to COD in 2022-30.

In the latest step forward, the ERC has announced a new FiT tariff structure for 2022-30, with details as follows:

- Open bidding for new non-firm renewable power projects with a capacity of 90MW or less, including solar farms, wind farms, biogas (wastewater);
- Open bidding for partial-firm renewable power projects, including hybrid solar farms and solar+BESS with power purchase agreements covering 20-25 years;
- New PPAs with a total capacity of 5.2GW to COD during 2024-30.

Exhibit 1: Bidding for new renewable capacity by type

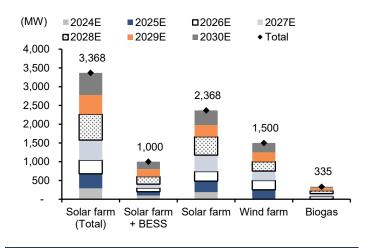
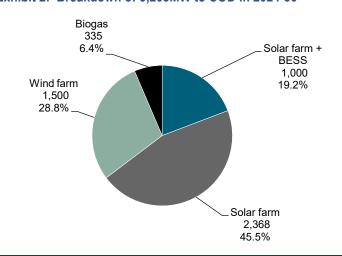


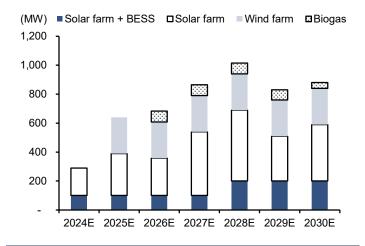
Exhibit 2: Breakdown of 5,203MW to COD in 2024-30



Source: ERC

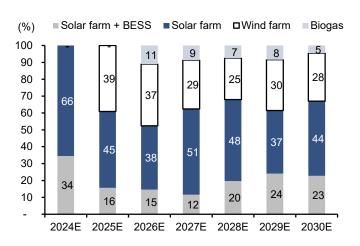
Source: ERC

Exhibit 3: Renewable capacity by COD year



Source: ERC

Exhibit 4: Renewable capacity by COD year (%)



Source: ERC

The winners will be picked based on 1) competitive price; 2) entity qualifications (only private companies, not state-owned or government agencies); 3) technical and financial qualifications; and 4) transmission constraints, in order of priority from highest to lowest: biogas (wastewater), wind farms; solar+BESS; and solar farms.

**FiT structure:** In this round of bidding, the FiT structure will be the lowest ever for renewable energy projects in Thailand, at THB2.07/kWh for biogas, THB3.1/kWh for wind farms, THB2.17/kWh for solar farms, and THB2.83/kWh for solar farms+BESS.

Exhibit 5: Renewable capacity breakdown by type and COD year

Project type	PPA type	FiT (THB/kWh)	PPA period	FiT for four southernmost provinces*
Biogas (wastewater)	Non-firm	2.0724	20	2.4724
Wind	Non-firm	3.1014	25	3.5014
Solar farm	Non-firm	2.1679	25	2.5679
Solar farm+BESS (10-90MW)**	Partial-firm	2.8331	25	3.2331

<sup>\*</sup>For projects in the four southernmost provinces of Yala, Narathivas, Pattani, and four districts in Songkla (Chana, Thepa, Sabayoi, and Nathawee)

Source FRC

## Renewable capacity under PDP2018Rev1

Approved in Oct-20, PDP2018Rev1 has effectively increased the power generation capacity of Thailand's gas-fired power plants from 15.3GW in PDP2018 to 17.2GW and reduced coal-fired power plant capacity from 1.7GW to 1.2GW.

Exhibit 6: Power generation by fuel type

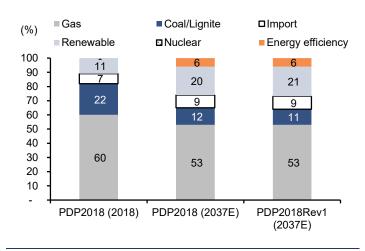
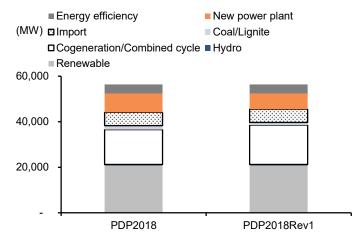


Exhibit 7: New capacity allowances during 2018-37 under PDP2018 and PDP2018Rev1



Source: EPPO Source: EPPO

3 FINANSIA 13 SEPTEMBER 2022

<sup>\*\*</sup>Partial-firm PPAs for solar farm+BESS projects are:

<sup>1) 09.00-16.00:</sup> purchase 100% of PPA electricity production;

<sup>2) 18.01-06.00:</sup> purchase based on availability at 60% of PPA contract for two hours

<sup>3) 06.01-09.00</sup> and 16.01-18.00: purchase 100% of PPA electricity production

In addition, the ERC also lowered the total new renewable energy capacity allowance from the 20.8GW designated in PDP2018 down to 18.8GW in PDP2018Rev1, mainly due to the lower renewable capacity allocation under Thailand's Alternative Energy Development Plan (AEDP), which cuts new capacity for renewables down from 18.2GW in PDP2018 to 16.2GW in PDP2018Rev1.

Exhibit 8: Change in renewable energy allowances under PDP2018 and PDP2018Rev1

Renewable energy	PDP2018	PDP2018Rev1	(+/-)
According to AEDP	18,176	16,243	(11)
Government promoted			
- Municipal waste	400	400	-
- Southern biomass	120	120	-
- Community	-	-	nm
Committed VSPP	528	528	-
Committed SPP	1,150	1,150	=
SPP hybrid firm	300	300	=
EGAT projects with cabinet approval	92	92	-
Total	20,766	18,833	-

Source: EPPO

Under AEDP2018, the new wind farm capacity allocation is 1,485MW, slightly lower than the projected 1,500MW in new wind farm capacity up for bidding in the coming round.

New solar farm capacity at 3,368MW is lower than the 8,740MW called for under AEDP2018, however, the 335MW in new capacity for biogas is in line with the plan's call for 400MW.

The solar farm+BESS capacity of 1GW is new for renewable energy projects in Thailand. Introduced for the first time by the ERC, it reflects the faster-than-expected development of battery production facilities in Thailand. Designed mainly for EVs, the batteries can also be deployed as energy storage systems for renewable as well as conventional power plant projects.

Exhibit 9: Renewable capacity allocations in the draft PDP2018Rev1 vs current PDP2018

Projects	PDP2018	PDP2018Rev1
Projects under government-supportive policy		
- WTE-community waste	400	400
- Biomass (Pracharat)	120	120
- Community power for grassroots economy	-	1,933
Subtotal	520	2,453

Projects under AEDP2018		
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: EPPO

## Likely winners in the upcoming renewable capacity bidding process

We expect a number of Thai power companies to secure new renewable energy capacity in the next few months, including incumbent renewable players like EA, GUNKUL, SSP, and large-scale conventional fossil fuel-based power plant operators who plan to participate in the bidding for renewable projects. Our top picks in the Thai renewable energy industry are EA, GULF, GUNKUL, and SSP.

**EA: best positioned to win.** With 278MW of solar and 364MW of wind farm capacity, EA stands out as one of the most promising bidders likely to secure some of the new wind, solar, and solar farm+BESS capacity, thanks to EA's proven track record of highly efficient operations and high profitability. In addition, EA operates a 1GWh plant producing lithium-ion batteries for the e-buses manufactured by its joint venture with EV manufacturer NEX Point (NEX TB, BUY, TP THB21.6).

**GULF:** gearing up for renewable growth in the domestic market. According to management, GULF has joined forces with GUNKUL, a wind farm project operator and developer in Thailand, by acquiring a 50% stake worth THB5b in GULF-GUNKUL Corporation (GGC), which now owns stakes in three wind farm projects with a total capacity of 170MW. GULF targets securing up to 1GW in renewable capacity in Thailand by 2027, based on management's guidance.

**GUNKUL:** ready to grab growth. GUNKUL, via its partnership with GULF, is well-prepared to bid on new wind farm projects in Thailand. GUNKUL currently operates 170MW of wind farm capacity and has a number of sites ready to host new wind farm projects.

**SSP:** stacking up wind farm growth. After successfully developing and operating a 48MW wind farm in Vietnam, SSP targets an additional 48MW under its phase 2 expansion in Vietnam, and potentially 50-150MW in wind farm capacity in Thailand.

**GPSC:** battery and renewable growth. GPSC, with its own battery manufacturing plant and a large number of renewable projects underway both in domestic and overseas locations, is likely to secure a slice of the renewable energy cake in the coming months.

Exhibit 10: Peer comparisons

Company	BBG	Rec	Share	Target	Up	Market	3Y EPS		E	RC		PB			BITDA
	code		Price	price	side	Сар	CAGR	22E	23E	22E	23E	22E	23E		23
THAILAND		_	(LCY)	(LCY)	(%)	(USD m)	(%)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
B Grimm Power	BGRIM TB	BUY	37.75	42	11	2,707	14.2	107.7	32.8	3.1	9.9	3.3	3.1	17.1	12.7
Gulf Energy Deve	GULF TB	BUY	55.75	60	8	17,992	21.1	47.6	44.2	13.6	13.6	6.2	5.9	35.0	32.7
Global Power Syn	GPSC TB	HOLD	68.5	70	2	5,313	11.2	39.7	25.2	4.5	7.0	1.8	1.7	21.0	17.5
Banpu Power	BPP TB	BUY	15.4	20	30	1,291	29.1	8.6	8.3	11.5	11.2	1.0	0.9	33.5	25.0
Electricity Gen	EGCO TB	BUY	179	245	37	2,592	13.8	5.5	5.5	14.3	13.1	0.8	0.7	11.7	10.8
Ratch Group	RATCH TB	BUY	42.75	55	29	2,557	(0.6)	11.1	8.8	9.9	10.5	0.9	0.9	13.2	12.6
Wha Utilities&Pow	WHAUP TB	BUY	3.94	4.5	14	415	18.2	11.7	11.1	10.2	10.6	1.2	1.2	32.0	30.8
Bcpg	BCPG TB	BUY	10.8	17	57	860	(9.7)	12.2	17.7	9.1	5.9	1.1	1.0	13.7	19.8
Ck Power	CKP TB	BUY	5.2	6.6	27	1,163	19.5	13.6	13.5	11.8	10.8	1.5	1.4	11.1	12.8
Energy Absolute	EA TB	BUY	87.75	101	15	9,003	28.5	27.6	27.7	31.5	25.0	7.6	6.3	24.0	22.8
Gunkul Engineer	GUNKUL TB	BUY	5.6	6.6	18	1,368	27.3	21.9	13.7	16.9	24.9	3.6	3.3	17.0	12.1
Demco Pcl	DEMCO TB	BUY	3.72	5.9	59	75	nm	12.8	11.0	4.4	4.9	0.6	0.5	(70.5)	(157.0)
Power Solution	PSTC TB	BUY	1.85	3.7	100	121	nm	12.5	11.2	5.8	6.1	0.7	0.7	14.7	13.9
Sermsang Power	SSP TB	BUY	10.4	20	92	357	34.0	9.6	8.4	18.0	18.0	1.6	1.4	9.1	8.3
Tpc Power	TPCH TB	BUY	7.85	14	92 78	33 <i>1</i> 87	60.3	6.6	5.6	15.8	17.0	1.0	0.9	6.7	5.6
Tpi Polene Power	TPIPP TB	BUY	3.64	5.7	76 57	841	nm	6.7	7.6	14.8	12.7	1.0	1.0	5.7	6.2
Absolute Clean	ACE TB	BUY	2.74	4.1	50	767	18.4	15.5	12.7	13.2	15.1	2.0	1.9	10.5	9.5
Earth Tech	ETC TB	BUY	3.4	3.8	12	209	nm	23.0	21.3	11.3	11.4	2.5	2.3	14.8	14.0
Thailand avg	LICIB	БОТ	3.4	3.0	12	47,716	15.4	36.7	29.2	15.1	14.6	4.5	4.1	24.9	22.7
mananu avg						47,710	15.4	30.7	25.2	15.1	14.0	4.5	4.1	24.5	22.1
HONGKONG															
Datang Intl Power	991 HK	n/a	1.86	n/a	NA	8,562	nm	1.7	1.4	10.9	11.9	nm	nm	nm	nm
Huadian Power	1071 HK	n/a	3.72	n/a	NA	8,552	nm	7.7	6.1	5.2	10.3	0.6	0.5	15.5	12.6
Huaneng Power	902 HK	n/a	4.67	n/a	NA	17,411	nm	35.3	8.3	2.2	8.0	0.6	0.6	11.3	8.7
China Power Inter	2380 HK	n/a	4.45	n/a	NA	5,894	nm	16.7	11.0	6.1	8.6	1.1	1.1	10.5	8.2
China Resources	836 HK	n/a	16.78	n/a	NA	9,941	103.5	8.5	6.4	10.3	12.4	0.8	0.7	7.2	6.0
Clp Holdings Ltd	2 HK	n/a	65.60	n/a	NA	21,406	5.5	20.2	14.8	9.5	10.5	1.5	1.5	12.1	9.5
Power Assets	6 HK	n/a	43.95	n/a	NA	11,951	3.3	13.9	14.1	7.8	7.5	1.1	1.1	39.3	68.3
Hongkong avg						83,718	10.8	17.6	9.8	7.3	9.8	0.9	0.9	14.2	16.6
MALAYSIA															
Petronas Gas	PTG MK	n/a	16.96	n/a	NA	7,479	(3.2)	18.5	17.7	13.7	14.2	2.5	2.4	9.4	9.5
Tenaga Nasional	TNB MK	n/a	8.78	n/a	NA	11,166	2.2	11.2	10.4	7.6	7.9	0.8	0.8	7.1	7.0
Ytl Power Inte	YTLP MK	n/a	0.76	n/a	NA	1,340	nm	nm	18.2	1.1	2.5	0.4	0.4	12.2	10.5
Malaysia avg	TTEL WIT	11/4	0.70	11/4	74/-1	19,985	(0.3)	3.2	3.3	2.3	2.4	0.3	0.3	2.0	1.9
						.,	(,			_				_	
CHINA															
China Datang	1798 HK	n/a	2.43	n/a	NA	2,178	12.8	8.5	7.0	11.3	11.2	1.0	8.0	8.3	7.4
China Gas	384 HK	n/a	11.24	n/a	NA	7,971	(5.9)	7.5	7.7	14.4	12.4	1.0	0.9	8.6	7.9
China Longyuan	916 HK	n/a	13.30	n/a	NA	21,421	14.5	13.3	10.9	10.8	11.8	1.4	1.2	11.5	9.6
Beijing Enterprises	392 HK	n/a	25.35	n/a	NA	4,098	5.9	3.5	3.2	9.2	9.2	0.3	0.3	6.6	6.1
Kunlun Energy	135 HK	n/a	6.61	n/a	NA	7,226	4.4	8.2	7.9	10.1	10.0	0.8	8.0	3.6	3.5
China avg						42,894	5.9	5.2	4.5	5.8	5.8	0.6	0.5	4.6	4.0
INDONESIA															
Perusahaan Gas	PGAS IJ	n/a	1,875.00	n/a	NA	3,094	0.5	9.8	9.1	10.5	10.7	1.1	1.0	5.5	5.3
Indonesia avg						3,094	0.5	0.4	0.3	0.4	0.4	0.0	0.0	0.2	0.2
SINGAPORE															
Sembcorp Indus	SCISP	n/a	3.34	n/a	NA	4,288	26.7	7.3	9.3	19.8	13.5	1.3	1.1	8.3	9.6
Singapore avg						4,288	26.7	0.4	0.5	1.0	0.7	0.1	0.1	0.4	0.5
Utilities under cove	rage					47,716	15.4	36.7	29.2	15.1	14.6	4.5	4.1	24.9	22.7
Average (all)		•				201,695	14.3	17.4	12.3	8.1	9.0	1.6	1.5	13.0	13.3

Share prices as of 12 September 2022 Sources: Bloomberg, FSSIA estimates

## Corporate Governance report of Thai listed companies 2021

AAV BCPG CPALL CCAP K MSC PLANET SAMART SPI THRE ADVANC BDMS CPF GPFT KBANK MST PLAT SAMTEL SPI THREL ADVANC BDMS CPF GPFT KBANK MST PLAT SAMTEL SPI THREL ADVANC BDMS CPF GPFT KBANK MST PLAT SAMTEL SPI THREL ADVANC BDMS CPF GPFT KBANK MST PLAT SAMTEL SPI THREL THREL SAMTEL SPI THREL SAMTEL SPI THREL SAMTEL SPI THREL STATE SPI THREL SAMTEL SAMTE	/ANC	BDMS			K	MSC	PLANET	SAMART	SPI	THRE	TVD
AF BEM CPI GGC KCE MTC PORT SAT SPVI TIPCO AH BGC CPN GLAND KKP MVP PPS SC SSSC TISCO AIRA BGRIM CRC GLOBAL KSL NCL PR9 SCB SST TK AKP BIZ CSS GPI KTB NEP PREB SCC STA TKT AKR BKI DDD GPSC KTC NER PRG SCC STA TKT AKR BKI DDD GPSC KTC NER PRG SCC STA TKT AKR BKI DDD GPSC KTC NER PRG SCC STEC TMT ALT BOL DELTA GRAMMY LALIN NKI PRM SCG STI TNDT AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY ANATA BRR DRT GINKUL LH NSI PSH SCM SUSCO TOA ANANA BYP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY ANATA BRR DRT GINKUL LH NSI PSH SCM SUSCO TOA ANANA BYP DIAC HANA LHFG NVD PSL SUC SUTHA TOP ANAN BYW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ACT BWG EA HMPRO LPN NYT PTT SEED SYNTEC TRC ARROW CHEWA ECL III MAKRO OR PTTGC SELECT TACC TRU ARROW CHEWA ECL III MAKRO OR PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SIAN TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SIAN TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SIAN TASCO TRUE ANAC CK EPG INTUCH MC PAP QTC SIS TEMAM TISTE AYUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH BAPS CM FPI IFPC METCO PDG RS SMK THAN TTA BANPU CNT FFI ITEL MEEC PDJ S SMFC THANI TTB BAPS CM FPI IFPC METCO PDG RS SMK THAN TTA BANPU CNT FFI TEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BANPU CNT FFI TIEL MEEC PDJ S SMFC THANI TEAM BAND COMT FFINATT IVL MINT PG S S J SNC THCOM TIEL BANG COMT FROM THANI TEAM BAND COMT FFI TIEL MEEC PDJ S S SMFC THANI TEAM BAND COMT FFI TIEL MEEC PDJ S S SMFC THANI TEAM BAND COMT FFI TIEL MEEC PDJ S S SMFC THANI THEAM BAND THANI TEAM BAND COMT FFI TIEL MEEC PDJ S S S SMFC THANI THANI BA			CPF	OFDT							
AH BGC CPN GLAND KKP MVP PPS SC SSSC TISCO AIRA BGRIM CRC GLOBAL KSL NCL PPB SCB ST TK AKP BIZ CSS GPI KTB NEP PREB SCC STA TKT AKP BIZ CSS GPI KTB NEP PREB SCC STA TKT AKR BKI DDD GPSC KTC NER PRG SCCC STEC TMT ALT BOL DELTA GRAMMY LALIN NKI PROUD SCG STI TNDT AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPS DTAC HANA LHFG NVD PSL SDC SUTHA TOP AMATAV BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP AMANA BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ACT BWG EA HMPRO LPN NYT PTT SEAOIL SYMC TOM APP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYNTEC TRC ARIP CFRESH ECF ICHI MAJOR OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAJOR OR PTTGC SELIC TACC TRU ASP CHO EE ILINK MALEE OSP O-CON SHR TCAP TSC AUCT CIMBT EGGO ILM MBK OTO OH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP OTC SIS TFMAMA TSTE AYUD CKP ETC IP MCOT PCSGH RATCH SITHAI TOH TSTH BAFS CM FPI ITEL MFEC PDJ S SMFC THANI TTB BAPY COM FFR TITEL MFEC PDJ S SMFC THANI TTB BAPY COM FRAMT IVL MINT PG S & J SMC THANI BBAP COMA GRX JSP MONO PHOL SAAM SONIC THG TTW BBAP COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S SMFC THANI TTB BAPY COMT FFT ITEL MFEC PDJ S S SMFC THOM BAPY COMT FFT ITEL SAAM PROON SAK SO TIGER BAP COMT FFT ITEL SAAM PROON SAK SO TIGER BAP COMT FFT ITEL MFEC PDJ S S SMFC THOM BAP COMT FFT ITEL SAAM PROON SAK SO TIGER BAP COMT FFT ITEL SAAM PROON SAK SO TIGER BAP COMT FFT ITEL		REM									TVI
AIRA											TVO
AKP BIZ CSS GPI KTB NEP PREB SCC STA TKT AKR BIKI DDD GPSC KTC NER PRG SCCC STEC TMT ALT BOL DELTA GRAMMY LALIN NKI PRM SCG STI TNDT AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMA BPS DTAC HANA LHFG NVD PSL SDC SUTHA TOP AMANAN BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP AMANAN BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ACT BWG EA HMPRO LPN NYT PTT SEAOIL SYMC TOM APP CENTEL EASTW ICC MACO OISHI PTTEP SEE-ED SYNTEC TRC ARIP CFRESH ECF ICHI MAJOR OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAKRO ORI PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC AUCT CIMBT ECCO ILM MBK OTO QH SIRI TEAMG TSR AWO CK EPG INTUCH MC PAP QTC SIS TFMAMA TSTE AVUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH BBAPS CM FPI IRPC METCO PDG RS SMK THANA TTA BBANPU CNT FPT ITEL MEEC PDJ S SMFC THANI TTA BBAPS COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL BBAY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW BCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU   VERY GOOD LEVEL - Score range 80-89  ZES ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC TRUE AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGO SPC SKIS TIMIL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SC SFF TIMIL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SC SFF STOWER TOW	4										TWPC
AKR BKI DDD GPSC KTC NER PRG SCCC STEC TMT ALT BOL DELTA GRAMMY LALIN NKI PRM SCG STI TNDT AMA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY AMATA BRR DRT GUNKUL LH NSI PSH SCM SUSCO TOA AMATAV BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP ANAN BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ANAN BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ANAN BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ANATOP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYNTEC TRC ARIP CFRESH ECF ICHI MAJOR OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAKRO ORI PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC AUCT CIMBT EGCO ILM MBK OTO QH SIRI TEAMG TSR AVIO CK EPG INTUCH MC PAP QTC SIS TEMMA TSTE AVIO CK EPG INTUCH MC PAP QTC SIS TEMMA TSTE AVIO CK EPG INTUCH MC PAP QTC SIS TEMMA TSTE BAPS CM FPI IRPC METCO PDG RS SMK THANA TTA BASP CM FPI IRPC METCO PDG RS SMK THANA TTA BANPU CNT FPT ITEL MFEC PDJ S SMPC THAN TTB BAY COM7 FSMART IVL MINT PG S & J SNC THCOM TCL BBL COMAN GBX JSP MONOR PHOL SAMM SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  ZS ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC TUP ASK CI FN ITD LRH OGC RT SIP TOM BBL COMAN GBX JSP MONOR PHOL SAMM SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  ZS ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC THAN TTE AGE BA CPL FTE JCKH MBAX PIMO SAK SON TIFLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AGAD BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AGE BO COLOR FS JCK MATCH PICO SA SNP TFI AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIFLE AMANAN BLUCON BJCH DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAN BLUCON BJCH DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAN BLUCON BJCH DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAN BL	,										U
ALT BOL DELTA GRAMMY LALIN NKI PRM SCG STI TNDT  AMAA BPP DEMCO GULF LANNA NOBLE PROUD SCGP SUN TNITY  AMATA BRR DRT GUNKUL LH NSI PSH SCM SUSCO TOA  AMATAV BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP  AMATAV BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP  AMATAV BTS DYBUSIT HARN LIT NWR PTG SEAFCO SVI TPBI  AOT BWG EA HMPRO LPN NYT PTT SEAOIL SYMC TOM  AP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYMTC TOR  ARPO CHEWA ECL III MAKRO OR PTTGC SELIC TACC TRU  ASPP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC  AUCT CIMBT EGCO ILM MBK OTO QH SIRI TEAMG TSR  AVUD CK EPG INTUCH MC PAP QTC SIS TFMAMA TSTE  AVUD CKP ETC IP MCOT PCSGH RATCH SITHAI TCH TSTH  BAFS CM FPI IRRC METCO PDG RS SMK THANA TTA  BANPU CNT FPT ITEL MFEC PDJ S SMPC THANN TTE  BAY COMAY FSMART IVL MINTT PG S & J SNC THCOM TTCL  BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW  BCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU   VERY GOOD LEVEL — Score range 80-39  2S ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC  TUP ASK CI FN ITD LRH OGC RT SLP TOMC  ASN CIG FNS J LST PATO RWI SMIT TEAM  ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  AGG BC CRD GEL JIMT META PL SAMCO SPA TKN  AGE BC CSP GJS KCAR MGT PPP SAWAD SR TMC  ALL BEIT DC CHEMP KGI MILL  AMANAH BLA DOO HYDRO KOOL MODERN PRINC SE STANLY TNL  AMANAH BLA DOO HYDRO KOOL MODERN PRINC SE STANLY TNL  AMANIN BR DOHOME ION KTIS MI PSG SFLEX STGT TNP  AMANIN BR DOHOME ION KTIS MI PSG SFLEX STGT TNP											UAC
AMA         BPP         DEMCO         GULF         LANNA         NOBLE         PROUD         SCGP         SUN         THITY           AMATAN         BRR         DRT         GUNKUL         LH         NSI         PSH         SCM         SUSCO         TOA           AMATAN         BTS         DTAC         HARN         LIT         NWR         PTG         SEAFCO         SVI         TPBI           ANAN         BTW         DUSIT         HARN         LIT         NWR         PTG         SEAFCO         SVI         TPBI           AND         BWG         EA         HMRRO         LIT         NWR         PTG         SEAFCO         SVI         TPBI           AOT         BWG         EA         HMRRO         LPN         NYT         PTTEP         SEAFCO         SVI         TPBI           AOT         CENTESH         EGC         LILI         MACO         OISHI         PTTEP         SEAFCO         SVI         TPBI           ARROW         CHEWA         ECL         III         MAKRO         ORI         PYLON         SEAL         TASCO         TRC           AUCT         CIMBT         EGC         III         MAKRO         ORI <td></td> <td>UBIS UV</td>											UBIS UV
MANTAV BTS DTAC HANA LHFG NVD PSL SCM SUSCO TOA AMATAV BTS DTAC HANA LHFG NVD PSL SDC SUTHA TOP PANAN BTW DUSIT HARN LIT NWR PTG SEAFCO SVI TPBI ACT BWG EA HMPRO LPN NYT PTT SEAOIL SYMC TOM AP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYNTEC TRC ARIP CFRESH ECF ICHI MAJOR OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAKRO OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAKRO ORI PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC AUCT CIMBT EGCO ILM MBK OTO OH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP OTC SIS TFMAMA TITE AND ANAC CK EPG INTUCH MC PAP OTC SIS TFMAMA TITE BAFS CM FPI IRPC METCO PDG RS SMK THANA TITA BANPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB BAY COMT FSMART IVL MINT PG S & J SNC THCOM TTC BBB COMAN GBX JSP MONOR PLANB SABINA SPALI THIP TU  **VERY GOOD LEVEL - Score range 80-89**  **VERY GOOD LEVEL - Score range 80-89**  **VERY GOOD LEVEL - SCORE RATCH PIO SA SNP TFI AMB ATP30 CMC FORTH JAS M PB S111 SMT TEAM AND ATP30 CMC FORTH JAS M PB S111 SMT TEAM AND ATP30 CMC FORTH JAS M PB S111 SMT TEAM AND											VGI
AMATAV   BTS											VIH
ANAN											WACOAL
ADT BWG EA HMPRO LPN NYT PTT SEAOIL SYMC TQM APP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYNTEC TRC ARIP CERSH ECF IICHI MAJOR OR PTTEC SELIC TACC TRU ARROW CHEWA ECL III MAJOR OR PTTEC SELIC TACC TRU ARROW CHEWA ECL III MAJOR OR PTTEC SELIC TACC TRU ARROW CHEWA ECL III MAJOR OR PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC ALUCT CIMBT EGCO ILM MBK OTO QH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP QTC SIS TEMAMA TSTE AVUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH STH SASPE CM FPI IRPC METCO PDG RS SMK THANA TTA SANPU CNT FPT IFEL MFEC PDJ S SMPC THANI TTB SAY COM7 FSMART IVL MINIT PG S & J SNC THCOM TTCL SBL COM7 FSMART IVL MINIT PG S & J SNC THCOM TTCL SBL COM7 GR ASAM SONIC THG TTW SCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  ***VERY GOOD LEVEL - Score range 80-89**  **ESS ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC TAMA ABM ATP30 CMC FORTH JAS M PB S11 SMT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG AAG BA CPL FTE JCKH MBAX PIMO SAK S0 TIGER AAG BA CPL FTE SCOOL BAS SEC TMILL AAGA BA CO DOON HPT KIAT MITSIB PRIME SCN SSC TMILL AAMAANAH BA DOOD HYDRO KOOL											WAVE
APP CENTEL EASTW ICC MACO OISHI PTTEP SE-ED SYNTEC TRC ARIP CFRESH ECF ICHI MAJOR OR PTTGC SELIC TACC TRU ARROW CHEWA ECL III MAKRO ORI PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC AUCT CIMBT EGCO ILM MBK OTO QH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP QTC SIS TEMMA TSTE AWC CK EPG INTUCH MC PAP QTC SIS TEMMA TSTE AVUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH ASAPS CM FPI IRPC METCO PDG RS SMK THANA TTA SAPPU CNT FSMART IVL MINT PG S S J SNC THCOM TTCL SISL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW SICP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Score range 80-89  VERY GOOD FSS JCK MATCH PICO SA SNP TFI AMA ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM ATP30 CMC FORTH JAS M PB S11 SMT TEAM AMBM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AMAGE BA CPL FTE JCKH MBAX PJW SALEE SORKON TITLE AMAGE BA CPL FTE JCKH MBAX PJW SALEE SORKON TITLE AMAGE BC CRD GEL JMT META PL SAMOO SPA TKN AMBM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMBM APP SOR OWN FVC JMART MEGA PJW SALEE SORKON TITLE AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMBM APP SOR OWN SALEE SORKON TITLE AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMAGE BC CSP GJS KCAR MGT PMT SANOO SPA TKN AMAGE BC DCON HPT KIAT MITSIB PRINC SE STANLY TNL AMAGE BC DCON HPT KIAT MITSIB PRINC SE STANLY TNL AMAGE BC DCON BCOK DVS IFS KUMWEL NEC PSTC SFC STOWER TOG											WHA
ARROW CHEWA ECL III MAKRO ORI PYLON SENA TASCO TRUE ASP CHO EE ILINK MALEE OSP Q-CON SHR TCAP TSC AUCT CIMST EGCO ILM MBK OTO QH SIRI TEAMG TSR AUCT CIMST EGCO ILM MBK OTO QH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP QTC SIS TEAMGMA TSTE AYUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH ASARPU CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH ASARPU CNT FSMART IVL MINT PG S & J SNC THANN TTA BANPU CNT FSMART IVL MINT PG S & J SNC THANN TTB BAY COMT FSMART IVL MINT PG S & J SNC THANN TTB BAY COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  ***********************************											WHAUP
ASP	2	CFRESH	ECF	ICHI	MAJOR	OR	PTTGC	SELIC	TACC	TRU	WICE
AUCT CIMBT EGCO ILM MBK OTO QH SIRI TEAMG TSR AWC CK EPG INTUCH MC PAP QTC SIS TEMAMA TSTE AWC CK EPG INTUCH MC PAP QTC SIS TEMAMA TSTE AVUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH BAFS CM FPI IRPC METCO PDG RS SMK THANA TTA SANPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB SANPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB SAY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW SCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  CES ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC ABICO ASN CIG FNS J LST PATO RWI SMIT TEAM AND ATP30 CMC FORTH JAS M PB S111 SMT TFG ACE B COLOR FSS JCK MATCH PICO SA SNP TFI ACE B COLOR FSS JCK MATCH PICO SA SNF TMC ACE B COLOR FSS JCK MATCH PICO SA SNF TMC ACE B COLOR FSS JCK MATCH PICO SA SNP TFI ACE B COLOR FSS JCK MATCH PICO SA SNF TMC ACE B COLOR FSS JCK MATCH PICO SA SNF TMC ACE B COLOR FSS JCK MATCH PICO SS SNF TMC ACE B COLOR FSS JCK MATCH PICO SS SNF TMC ACE B COLOR FSS JCK MATCH PICO SS SNF TMC ACE B COLOR FSS JCK MATCH PICO SS SNF T											WINNER
AWC CK EPG INTUCH MC PAP QTC SIS TFMAMA TSTE AYUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH ASAFS CM FPI IRPC METCO PDG RS SMK THANA TTA BANPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB BAY COMT FSMART IVL MINT PG S&J SNC THCOM TTCL BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW BCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  ES ASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC ASICO ASN CIG FNS J LST PATO RWI SMIT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GEL JMT META PL SAMCO SPA TKN AGG BC CRD GENCO KBS MFC PM SANKO SPC TKS AGG SFLEX STGT TM AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMANAN BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL											ZEN
AYUD CKP ETC IP MCOT PCSGH RATCH SITHAI TGH TSTH SAFS CM FPI IRPC METCO PDG RS SMK THANA TTA SARPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB SARY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL SAY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL SACP COTTO GC JWD MOONG PHOL SAAM SONIC THG TTW SCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - SCORE RAGE SASIMAR CHOW FLOYD IT LOXLEY OCC RPC SKY TCC RUP ASK CI FN ITD LRH OGC RT SLP TCMC ABICO ASN CIG FNS J LST PATO RWI SMIT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG ACE B COLOR FSS JCK MATCH PICO SA SNP TFI ACG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER ADB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE ALCONTS BC CRD GEL JMT META PL SAMCO SPA TKN ACE BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM ACH BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM ALLA BJC DCON HPT KIAT MISIB PRIME SCN SSC TMILL AMANARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGTT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											
SAFS											
BANPU CNT FPT ITEL MFEC PDJ S SMPC THANI TTB BAY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW BCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - SCORE RANG SAINA SPALI THE TWO LOOD RANGE BOOL THE TWO LO											
BAY COM7 FSMART IVL MINT PG S & J SNC THCOM TTCL BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW BBC COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Scale Score TWO LEVEL SCORE SCORE TWO LEVEL SCORE SCORE SCORE TWO LEVEL SCORE SCORE TWO LEVEL SCORE SCO											
BBL COMAN GBX JSP MONO PHOL SAAM SONIC THG TTW BCP COTTO GC JWD MOONG PLANB SABINA SPALI THIP TU  VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Score											
VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - Score range sold range											
VERY GOOD LEVEL - Score range 80-89  VERY GOOD LEVEL - SCORE RANGE RAN											
UP         ASK         CI         FN         ITD         LRH         OGC         RT         SLP         TCMC           BICO         ASN         CIG         FNS         J         LST         PATO         RWI         SMIT         TEAM           BB         CIG         FORTH         JAS         M         PB         S11         SMT         TFG           CCE         B         COLOR         FSS         JCK         MATCH         PICO         SA         SNP         TFI           CCG         BA         CPL         FTE         JCKH         MBAX         PIMO         SAK         SO         TIGER           DB         BAM         CPW         FVC         JMART         MEGA         PJW         SALEE         SORKON         TITLE           LEONTS         BC         CRD         GEL         JMT         MEGA         PJW         SALEE         SORKON         TITLE           LEONTS         BC         CRD         GEL         JMT         MEGA         PJW         SALEE         SORKON         TITLE           LEONTS         BC         CRD         GEL         JMT         MEGA         PJW         SALEE         SORKON </td <td>marienth professionarienth profession</td> <td>Street of Street Of Street</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- / 1441</td> <td></td> <td></td> <td></td>	marienth professionarienth profession	Street of Street Of Street						- / 1441			
ABICO ASN CIG FNS J LST PATO RWI SMIT TEAM ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG ACE B COLOR FSS JCK MATCH PICO SA SNP TFI ACG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER ACB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE ACONTS BC CRD GEL JMT META PL SAMCO SPA TKN AGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM AIT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALLA BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANANH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											TVT
ABM ATP30 CMC FORTH JAS M PB S11 SMT TFG ACE B COLOR FSS JCK MATCH PICO SA SNP TFI ACG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER ADB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AEONTS BC CRD GEL JMT META PL SAMCO SPA TKN AGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM ANT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALLOCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											TWP
CCE B COLOR FSS JCK MATCH PICO SA SNP TFI  CCG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER  CDB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE  CEONTS BC CRD GEL JMT META PL SAMCO SPA TKN  CGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS  CHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM  CALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD  CALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD  CALL BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI  CALLUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL  CMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL  CMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP  CALLUCON BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											UEC
ACG BA CPL FTE JCKH MBAX PIMO SAK SO TIGER ADB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AEONTS BC CRD GEL JMT META PL SAMCO SPA TKN AGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM AIT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											UMI
ADB BAM CPW FVC JMART MEGA PJW SALEE SORKON TITLE AEONTS BC CRD GEL JMT META PL SAMCO SPA TKN AGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM AIT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											UOBKH
ALCON BJCH DHOUSE HTC KISS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSC SFE TKOM SANCO SPA TKN SANCO SPA TKN META PL SANCO SPA TKN META PL SANCO SPC TKS SANCO SPC TKS ANCO SPC TM ANCO SPC TKS ANCO SPC											UP UPF
AGE BCH CSC GENCO KBS MFC PM SANKO SPC TKS AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM ALT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											UPF UPOIC
AHC BEC CSP GJS KCAR MGT PMTA SAPPE SPCG TM AIT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											UTP
AIT BEYOND CWT GYT KEX MICRO PPP SAWAD SR TMC ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											VCOM
ALL BFIT DCC HEMP KGI MILL PPPM SCI SRICHA TMD ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											VL
ALLA BJC DCON HPT KIAT MITSIB PRIME SCN SSC TMI ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											VPO
ALUCON BJCHI DHOUSE HTC KISS MK PRIN SCP SSF TMILL AMANAH BLA DOD HYDRO KOOL MODERN PRINC SE STANLY TNL AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											VRANDA
AMARIN BR DOHOME ICN KTIS MTI PSG SFLEX STGT TNP APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG											WGE
APCO BROOK DV8 IFS KUMWEL NBC PSTC SFP STOWER TOG			DOD			MODERN					WIIK
											WP
NPCS CBG EASON IMH KUN NCAP PT SFT STPI TPA											XO
											XPG
APURE CEN EFORL IND KWC NCH QLT SGF SUC TPAC											YUASA
QUA CGH ERW INET KWM NETBAY RBF SIAM SWC TPCS											
ASAP CHARAN ESSO INSET L&E NEX RCL SINGER SYNEX TPS ASEFA CHAYO ESTAR INSURE LDC NINE RICHY SKE TAE TRITN											
ASIA CHG ETE IRC LEO NRF RML SKN TAKUNI TRT ASIAN CHOTI FE IRCP LHK NTV ROJNA SKR TBSP TSE											
GOOD LEVEL - Score range 70-79											
A BGT CITY GIFT JTS MDX PK SGP SUPER TQR											YGG
AI BH CMAN GLOCON JUBILE MJD PLE SICT SVOA TTI											ZIGA
AIE BIG CMO GREEN KASET MORE PPM SIMAT TC TYCN											
NJ BLAND CMR GSC KCM MUD PRAKIT SISB TCCC UKEM											
ALPHAX BM CPT GTB KK NC PRAPAT SK THMUI UMS											
AMC BROCK CRANE HTECH KKC NDR PRECHA SMART TNH UNIQ	ز	BROCK	CRANE	HTECH	KKC	NDR	PRECHA	SMART	TNH	UNIQ	
	,										
APP BSBM CSR HUMAN KWI NFC PTL SOLAR TNR UPA			U	IHL							
APP BSBM CSR HUMAN KWI NFC PTL SOLAR TNR UPA AQ BSM D IHL KYE NNCL RJH SPACK TOPP UREKA			EVU	IIC	1 = =						
APP BSBM CSR HUMAN KWI NFC PTL SOLAR TNR UPA AQ BSM D IHL KYE NNCL RJH SPACK TOPP UREKA ARIN BTNC EKH IIG LEE NOVA RP SPG TPCH VIBHA	N	BTNC									
APP BSBM CSR HUMAN KWI NFC PTL SOLAR TNR UPA AQ BSM D IHL KYE NNCL RJH SPACK TOPP UREKA ARIN BTNC EKH IIG LEE NOVA RP SPG TPCH VIBHA AS BYD EMC INGRS LPH NPK RPH SQ TPIPL W	N	BTNC BYD	EMC	INGRS	LPH	NPK	RPH	SQ	TPIPL	W	
APP BSBM CSR HUMAN KWI NFC PTL SOLAR TNR UPA AQ BSM D IHL KYE NNCL RJH SPACK TOPP UREKA ARIN BTNC EKH IIG LEE NOVA RP SPG TPCH VIBHA	N	BTNC BYD CAZ	EMC EP	INGRS INOX	LPH MATI	NPK NUSA	RPH RSP	SQ SSP	TPIPL TPIPP	W WIN	

#### 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.

Sources: Thai Institute of Directors Association (IOD); FSSIA's compilation; data as of 26 October 2021

<sup>\*</sup> 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

## **Anti-corruption Progress Indicator**

CERTIFIED										
2S	всн	CPALL	GC	К	MFC	PE	QLT	SNP	THCOM	TU
7UP	BCP	CPF	GCAP	KASET	MFEC	PG	QTC	SORKON	THIP	TVD
ADVANC	BCPG	CPI	GEL	KBANK	MILL	PHOL	RATCH	SPACK	THRE	TVI
AF	BE8	CPN	GFPT	KBS	MINT	PK	RML	SPALI	THREL	TVO
Al	BEYOND	CSC	GGC	KCAR	MONO	PL	RWI	SPC	TIDLOR	TWPC
AIE	BGC	DCC	GJS	KCE	MOONG	PLANB	S&J	SPI	TIPCO	U
AIRA	BGRIM	DELTA	GPI	KGI	MSC	PLANET	SAAM	SPRC	TISCO	UBE
AKP	BJCHI	DEMCO	GPSC	KKP	MST	PLAT	SABINA	SRICHA	TKS	UBIS
ALPHAX	BKI	DIMET	GSTEEL	KSL	MTC	PM	SAPPE	SSF	TKT	UEC
AMA	BLA	DRT	GUNKUL	KTB	MTI	PPP	SAT	SSP	TMD	UKEM
AMANAH	BPP	DTAC	HANA	KTC	NBC	PPPM	SC	SSSC	TMILL	UOBKH
AMATA	BROOK	DUSIT	HARN	KWC	NEP	PPS	SCB	SST	TMT	UPF
AMATAV	BRR	EA	HEMP	KWI	NINE	PR9	SCC	STA	TNITY	UV
AP	BSBM	EASTW	HENG	L&E	NKI	PREB	SCCC	STOWER	TNL	VGI
APCS	BTS	ECL	HMPRO	LANNA	NMG	PRG	SCG	SUSCO	TNP	VIH
AQUA	BWG	EGCO	HTC	LH	NNCL	PRINC	SCN	SVI	TNR	WACOAL
ARROW	CEN	EP	ICC	LHFG	NOBLE	PRM	SEAOIL	SYMC	TOG	WHA
AS	CENTEL	EPG	ICHI	LHK	NOK	PROS	SE-ED	SYNTEC	TOP	WHAUP
ASIAN	CFRESH	ERW	IFEC	LPN	NSI	PSH	SELIC	TAE	TOPP	WICE
ASK	CGH	ESTAR	IFS	LRH	NWR	PSL	SENA	TAKUNI	TPA	WIIK
ASP	CHEWA	ETE	ILINK	М	occ	PSTC	SGP	TASCO	TPP	XO
AWC	CHOTI	FE	INET	MAKRO	OGC	PT	SINGER	TBSP	TRU	ZEN
AYUD	CHOW	FNS	INSURE	MALEE	ORI	PTG	SIRI	TCAP	TRUE	
В	CIG	FPI	INTUCH	MATCH	PAP	PTT	SITHAI	TCMC	TSC	
BAFS	CIMBT	FPT	IRC	MBAX	PATO	PTTEP	SKR	TFG	TSTE	
BAM	CM	FSMART	IRPC	MBK	PB	PTTGC	SMIT	TFI	TSTH	
BANPU	CMC	FSS	ITEL	MC	PCSGH	PYLON	SMK	TFMAMA	TTA	
BAY	COM7	FTE	IVL	MCOT	PDG	Q-CON	SMPC	TGH	TTB	
BBL	СОТТО	GBX	JKN	META	PDJ	QH	SNC	THANI	TTCL	
DECLARED										
AJ	CHG	DDD	ETC	JR	MAJOR	NUSA	RS	SSS	TQM	YUASA
ALT	CPL	DHOUSE	FLOYD	JTS	NCAP	NYT	SAK	STECH	TSI	ZIGA
APCO	CPR	DOHOME	GULF	KEX	NCL	OR	SCGP	STGT	VARO	
B52	CPW	ECF	III	KUMWEL	NOVA	PIMO	SCM	TKN	VCOM	
BEC	CRC	EKH	INOX	LDC	NRF	PLE	SIS	TMI	VIBHA	

#### **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 26 October 2021) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Sources: 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.

Company	Ticker	Price	Rating	Valuation & Risks
B.Grimm Power	BGRIM TB	THB 37.75	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) unplanned shutdowns of its SPPs.
Gulf Energy Development	GULF TB	THB 55.75	BUY	The downside risks to our SoTP-based TP on GULF include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) delays in project commercial operation dates.
Global Power Synergy	GPSC TB	THB 68.50	HOLD	The downside risks to our SoTP-based TP on GPSC include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) lower-than-expected demand from industrial users. Upside risks are a lower gas price and higher sales volume.
Banpu Power	BPP TB	THB 15.40	BUY	Downside risks to our SOTP valuation are the start-up delays of its new projects and government intervention in the electricity tariff.
Electricity Generating	EGCO TB	THB 179.00	BUY	Downside risks to our SoTP-based TP include 1) lower-than expected demand for electricity in Thailand; 2) delays in project commencement or commercial operation dates (COD); and 3) government intervention in electricity tariff subsidies.
Ratch Group	RATCH TB	THB 42.75	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.
WHA Utilities & Power	WHAUP TB	THB 3.94	BUY	Downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand; and 2) lower crude prices.
BCPG	BCPG TB	THB 10.80	BUY	The downside risks to our SoTP-based TP include: 1) lower-than-expected demand for electricity in Thailand, the Philippines and Indonesia; and 2) government intervention by way of electricity tariff subsidies.
CH. Karnchang	СК ТВ	THB 21.70	BUY	Key downside risks to our SoTP-based TP are delays in new bids, political instability, fluctuations in construction material prices, cost overruns, and the prolonged Covid-19 pandemic.
Energy Absolute	EA TB	THB 87.75	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.
Gunkul Engineering	GUNKUL TB	THB 5.60	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
Demco	DEMCO TB	THB 3.72	BUY	Downside risk includes delays in bidding for power transmission projects.
Power Solution Technologies	PSTC TB	THB 1.85	BUY	The downside risks to our SoTP-based TP on PSTC include 1) lower-than-expected demand for electricity in Thailand and delays of power plant project start-ups.
Sermsang Power Corp	SSP TB	THB 10.40	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.
TPC Power Holding	ТРСН ТВ	THB 7.85	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.
TPI Polene Power	TPIPP TB	THB 3.64	BUY	Downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand; 2) lower crude price, and 3) unplanned shutdown of the company?s power plants.
Absolute Clean Energy	ACE TB	THB 2.74	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.
Earth Tech Environment	ETC TB	THB 3.40	BUY	Downside risks to our SoTP-based TP include: 1) lower-than-expected demand for electricity in Thailand; 2) lower crude price; and 3) lower-than-expected industrial waste volumes.
Nex Point	NEX TB	THB 18.70	BUY	Downside risks to our SOTP-based TP include: 1) a lower-than-expected bus sales volume; 2) delays in bus deliveries; and 3) risk from regulatory changes.

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-Sep-2022 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.