

Neutral Downgraded

เราเปลี่ยนมามองลบกับแนวโนมของกลุ่มและปรับลด น้ำหนักหุ้นกลุ่มโรงไฟฟ้าจาก Overweight เป็น Neutral เนื่องจากภูมิทัศน์ของอุตสาหกรรมดูเป็นบวก น้อยลง โดยพบวามีสามปัจจัยลบซึ่งมีน้ำหนักมากกวา สองบัจจัยบวก ซึ่งปัจจัยลบไดแก การออกแผน PDPs ฉบับใหมของไทยและเวียดนามลาชาออกไป, สภาวะ การแขงขันที่สูง และ วัฏจักรดอกเบี้ยขาขึ้น, และ คาด เห็นการปรับลดกำไรของตลาด สวนสองปัจจัยบวก ได้แก่ ผลประกอบการที่คาดวาจะดีขึ้นอยางมากในปี 2566 และ ปัจจัยภายนอกที่เอื้ออำนวย เรายังคงเลือก GULF* เป็นหุนเค่นในกลุม จากปัจจัยพื้นฐานที่ เหนือกวา ในขณะที่เรายังชอบ BGRIM* และ GPSC* ด้วยจากแนวโน้มกำไรที่จะดีดตัวแรง และการเข้าชื้อ เก็งกำไรจากปัจจัยภายนอก

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Power Sector

ปัจจัยบวกอยู่ใกลออกไป; D/G to Neutral

Event

ปรับลดน้ำหนักหนกลมโรงไฟฟ้า และอัพเคตแนวโน้มของกลม

Impact กลยุทธุ - ผูเลนรายใหญ่จะเป็นตัวนำตลาดในปี 2566

เราเปลี่ยนมามองลบกับแนวโน้มของกลุ่มเนื่องจากพบวามีสามปัจจัยลบซึ่งมีน้ำหนักมากกวาสองปัจจัย บวก โดยในปีนี้เรายังคงชอบโรงไฟฟ้าขนาดใหญ่มากกวาจากแนวโน้มการเติบโตที่เหนือกวา มีความ ชำนาญในหลายดาน เครือขายธุรกิจที่กวางขวาง งบคุลที่แข็งแกรง และเครดิตเรตติ้งที่สูงกวา ทั้งนี้ ผู้เล่น ที่เขาเกณฑของเรานำโดย GULF* (หุ้นเด่นของเราในกลุมนี้) รองลงมาคือ BGRIM* และ GPSC*

สามปัจจัยลบมีน้ำหนักมากกว่าสองปัจจัยบวก

#1 ค<u>วามหวังที่บางเบา</u> การออกแผน PDPs ฉบับใหม่ของไทยและเวียดนามนาจะถูกเลื่อนจากปัจจัยความ ใม่แนนอนต่าง ๆ โดยในส่วนของไทย PDP นาจะเป็นฉบับปรับปรุงมากกว่าจะเป็นฉบับใหม่เนื่องจาก กำลังจะมีการจัดการเลือกตั้ง ในขณะเดียวกัน เวียดนามยังคงเผชิญกับปัญหาเสถียรภาพทางการเมือง โดย ในปี 2566 ไทยนาจะขึ้นค่า Ft จนสุดแลวและกำลังเป็นขาลง ในขณะที่ราคาพลังงานอยู่ในขาลงเช่นกัน

#2 <u>สภาวะการแข**่งขันที่สูง & วัฏจักรดอกเบี้ยขาขึ้น** ในเป็นยุกแห่งการเปลี่ยนผานไปสู่การใช้พลังงานสี เขียวมากขึ้น บริษัทน้ำมันและกาชตางเขามามีบทบาทในการเขามารวมกับกระแสตรงนี้ดวยซึ่งทำใหการ แข่งขันเขมข้นมากขึ้น นอกจากนี้ วัฏจักรดอกเบี้ยขาขึ้นที่ดำเนินต่อเนื่องตลอดปี 2566 ซึ่งจะทำให้หาคืล ใหม่ ๆ ที่มี IRRs นาสนใจเหมือนในอดีตหาไดยาก</u>

#3 <u>คาดเห็นการปรับลดกำไรของตลาด</u> จากความล่าช้ำในการปิดดีล, คา Ft ที่จะพลิกมาลดลง, การขายการ ลงทุน, และผลการดำเนินงานของบางโครงการอ่อนแอลง เรามองว่าโรงไฟฟ้าขนาดเล็ก (SPPs) ยังมี downside อีก และรวมไปถึง RATCH*, EGCO*, BPP*, และ CKP*

ทั้งนี้สองปัจจัยบวกที่ราคาหุ้นนาจะสะท้อนไประดับหนึ่งแล้ว ได้แก่ i) กำไรของกลุ่มฯที่คาดวาจะดีขึ้น ในปี 2566 นำโดย GULF, GPSC, RATCH และ BGRIM ซึ่งคาดวากำไรจะออกมานาประทับใจจาก โครงการที่อยู่ใน pipeline และ margin ที่ดีขึ้น โดยเราคาดวาผุลประกอบการของ GPSC และ BGRIM นาจะดีดตัวขึ้นได้แรงมากจากฐานที่ต่ำ และ ii) ปัจจัยภายนอกส่งผลดีต่อกลุ่มโรงไฟฟ้า ได้แก่ ราคาน้ำมัน อัตราผลตอบแทนพันธบัตร และ อัตราแลกเปลี่ยน USS/THB

Valuation and action

เราปรับลดน้ำหนักหุ้นกลุ่มโรงไฟฟ้าจาก Overweight เป็น Neutral ซึ่งหลังจากที่ราคาหุ้นรวงลงมายก แผงทำให risk/reward ของหุ้นกลุ่มนี้ดูนาสนใจมากขึ้น แมวาภูมิทัศน์ของอุตสาหกรรมดูเป็นบวกนอยลง โดยเราเลือก GULF เป็นหุ้นเดนของเราในกลุ่มนี้ เพราะนอกจากจะมีแนวโนมเติบโตอยางราบรื่นแล้ว กลยุทธุ์ของบริษัทที่มุ่งกระจายธุรกิจ โดยมีเครื่อขายที่แข็งแกรง และศักยภาพสูงทำให GULF ดูนาสนใจ มากกวา และแตกตางจากหุ้นอื่นในกลุ่ม

Risks ปิดชอมบำรงนอกแผน, cost overruns, ความผันผวนของอัตราแลกเปลี่ยน และอัตราคอกเบี้ย

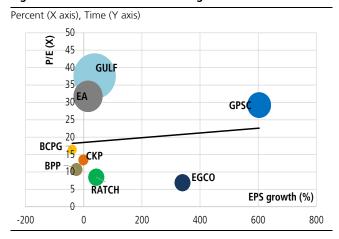
		TP Mkt.price		Upside	Mkt.cap	Implied	E	PS (Bt)		EPS gro	owth (9	6)		PE (x)			BPS		Р	BV (x)		Div. y	ield	R	OE (%)	
Stocks	Rating	Bt	Bt	(%)	(Bt bn)	PE-	22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F	23F	24F	22	23F	24F
BGRIM*	OP	46.00	40.50	13.6	106	62.1	-0.5	0.7	1.2	N.A.	N.A.	60	N.A.	55	34	16.2	17.7	20.0	2.5	2.3	2.0	0.8	3.9	-3.0	4.2	5.9
GPSC*	OP	80.00	69.00	15.9	195	53.2	0.3	1.5	2.1	-88	376	42	218	46	32	40.8	41.8	43.4	1.7	1.7	1.6	1.2	1.2	0.8	3.6	4.9
GULF*	OP	62.00	52.75	17.5	619	38.8	1.0	1.6	2.0	49	64	25	54	33	26	11.6	12.3	13.3	4.6	4.3	4.0	1.8	2.3	8.4	13.0	15.0
RATCH*	N	41.00	39.00	5.1	57	11.7	2.7	3.5	4.3	-51	32	22	15	11	9	49.4	51.3	53.9	0.8	0.8	0.7	4.1	4.2	5.4	6.8	7.9
EGCO*	N	166.00	157.00	5.7	83	10.2	5.1	16.2	17.5	-35	218	8	31	10	9	229.4	238.8	249.6	0.7	0.7	0.6	4.5	4.5	2.2	6.8	7.0
BCPG*	N	10.40	9.85	5.6	29	18.7	0.9	0.6	0.5	22	-39	-2	11	18	18	10.1	10.2	10.4	1.0	1.0	0.9	3.8	3.9	9.0	5.4	5.2
BPP*	N	17.00	15.80	7.6	48	14.2	1.9	1.2	1.2	84	-35	3	9	13	13	17.1	17.6	18.1	0.9	0.9	0.9	4.1	4.1	10.9	6.8	6.8
CKP*	OP	5.60	4.14	35.3	34	19.7	0.3	0.3	0.3	12	-5	1	14	15	14	4.7	4.9	5.1	0.9	0.8	0.8	2.4	2.7	6.4	5.8	5.6
Sector :	Neutral									-20.2	44.5	19.8	33.3	25.0	19.5				1.6	1.5	1.4	2.8	3.3	5.0	6.6	7.3

Source: KGI Securities Research



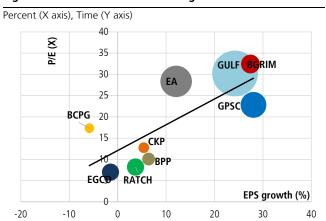


Figure 1: Street's 2023F P/E vs. EPS growth



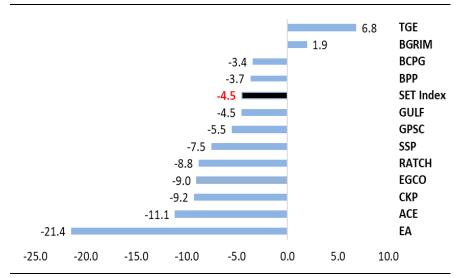
Source: Bloomberg, KGI Securities Research

Figure 2: Street's 2024F P/E vs. EPS growth



Source: Bloomberg, KGI Securities Research

Figure 3: Sector share prices YTD performances (as of March 23, 2023)



Source: Bloomberg, KGI Securities Research

Energy prices to drop in 2Q23 vs. downward Ft rate – SPP margin still widening

Energy prices. SPP gas price is expected to be stable QoQ in 1Q23F, before a sharp step decline in the next three quarters (2Q-4Q23F), which is positive for those who have projects with adder schemes and high SPPs, i.e., BGRIM, GPSC, and GULF.

We see further downside to our 2023F gas price assumption of Bt470/mmtu (from Bt495/mmbtu in 2022), possibly down to an average of Bt400-430/mmbtu. This is because Asia LNG JKM has plummeted around 57%YTD to US\$12.6/mmbtu and Erawan gas field is ramping up production. Initially, SPP gas price would range around Bt520/mmbtu in 1Q23, before trending down to Bt420-440 in 2Q23F, Bt375-400 in 3Q23F, and Bt375-380/mmbtu in 4Q24F (Figure 4).

In February 2023, we still see backwardation terms for JKM (gas price benchmark) and ICE Newcastle (coal) forward curve – lower than January 2023's data – implying a fall in prices in the future contracts (Figure 7).

Ft rate. This time around, it seems like Ft is reversing to downtrend (from expected uptrend) in the next eight months (from May 2023) on a plunge in global LNG prices (Figure 18). On March 22, 2023, Energy Regulatory Commission (ERC) unveiled the final

^{*}Note: BGRIM has N.A. growth due to its negative EPS in 2022

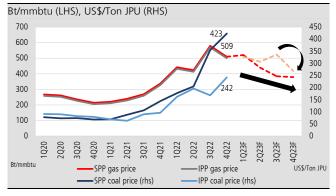


Ft rates for May-August 2023 (4 months) of Ft0.9827/kWh (Ft: +Bt0.0484/kWh) with single tariff Bt4.77/kWh. Hence, we are likely to cut our Ft rate assumptions of Bt2.33/kWh in 2023 and Bt2.70/kWh in 2024.

Our new Ft rate assumptions tend to be an average of Bt1.172/kWh in 2023F on expectation of an unchanged Bt0.9827/kWh in the next round of Ft rate (Sep-Dec 2023) and 2024F.

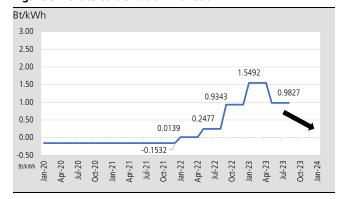
Net-net, we see 2023F earnings downside of 5-13% to those who have SPPs like GPSC, BGRIM, and GULF (Figure 6), based on our sensitivity analysis and exposure to revenue from power sold to industrial users (Figure 8). Downside would come from lower-than-expected Ft rate, outpacing lower-than-expected gas prices. The Street is likely to tone down its Ft rate and revise gas price assumptions as well.

Figure 4: Gas and coal price movements and forecasts



Source: Company data, KGI Securities Research

Figure 5: Ft rate to trend down ahead



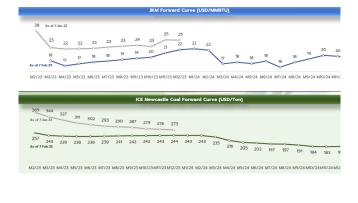
Source: Company data, KGI Securities Research

Figure 6: Potential downside from our new assumptions on Ft rate and SPP gas prices in 2023F

Company	Rating	TP	23F core profit	Current	assumptions	Potential ne	ew assumptions	NET IMPACT		
Company	nauliy	ır	(Btmn)	Ft rate (Bt/kWh)	SPP gas price (Bt/mmbtu)	Ft rate	SPP gas price	23F profit	%	
GULF	OP	62.00	18,752	2.34	470	1.17	400	(842)	(4.5)	
GPSC	OP	80.00	6,092	2.34	470	1.17	400	(790)	(13.0)	
BGRIM	OP	46.00	1,930	2.34	470	1.17	400	(123)	(6.4)	

Source: Company data, KGI Securities Research

Figure 7: Forward curve of LNG JKM & ICE Newcastle coal contracts



Source: Company data, KGI Securities Research

Figure 8: Our top 3 stocks: Sensitivity (Ft rate, gas price, and US\$/THB), and revenues from IUs

Company	(+/-) 1 satang/year change in Ft rate
GULF	Bt30-35mn to full-year net profit
GPSC	Bt60mn to full-year net profit
BGRIM	Bt18mn to full-year net profit
Company	(+/-) US\$1/THB change per quarter
GULF	Fx gain/loss of Bt850mn
BGRIM	Fx gain/loss of Bt300mn
GPSC	Fx gain/loss of Bt370mn
Company	(+/-) Bt10/mmbtu change in SPP gas price
Company GULF	(+/-) Bt10/mmbtu change in SPP gas price Bt120mn to full-year net profit
	, , , , , , , , , , , , , , , , , , , ,
GULF	Bt120mn to full-year net profit
GULF GPSC	Bt120mn to full-year net profit Bt350mn to full-year net profit
GULF GPSC BGRIM	Bt120mn to full-year net profit Bt350mn to full-year net profit Bt170mn to full-year net profit
GULF GPSC BGRIM	Bt120mn to full-year net profit Bt350mn to full-year net profit Bt170mn to full-year net profit IU portion to core revenue

Source: Company data, KGI Securities Research



Power Sector



4Q22 earnings review: Dominated by negative surprises

Full of negatives. Power stocks under our coverage inked an aggregated 4Q22 net profit of Bt4.1bn, significantly below our estimates largely on negative surprises in extra items (led by Electricity Generating (EGCO.BK/EGCO TB)*) and weaker performances (led by RATCH).

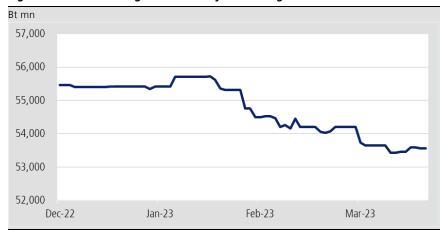
Seeing downgrade flows. Entering 2023, there has been a flow of downgrades (led by GULF, GPSC, and RATCH), down 3% YTD. Our current sector earnings forecast for 2023F is 5% lower than the Bloomberg consensus as we have taken conservative views. We expect to see further downgrade flows from the reversing Ft rate, delayed deal closings, divestment, and weaker operations of some projects. Potential downsides are expected to be seen for RATCH, EGCO, Banpu Power (BPP.BK/BPP TB)*, and CK Power (CKP.BK/CKP TB)*.

Figure 9: Summary of 4Q22 results - well below our and Street's forecasts

Sector/Stock		4Q2	2 Earnin	gs (Btmn)		Total r	evenues (Btm	n)	E	BIT margi	n (%)
	Act	% QoQ	% YoY	Preview	Diff (%)	Act	Preview	Diff (%)	Act	Preview	Diff (ppts)
BGRIM	(545)	N.A.	N.A.	(550)	(1)	14,579	15,932	(8)	0	2	(2.1)
GPSC	(436)	N.A.	N.A.	(495)	(12)	34,839	34,093	2	(2)	(1)	(1.0)
GULF	5,406	398	78	5,455	(1)	26,888	27,002	(0)	20	20	0.0
RATCH	(242)	N.A.	N.A.	1,600	(115)	19,119	18,754	2	5	8	(2.7)
EGCO	(263)	N.A.	N.A.	6,480	(104)	16,947	15,842	7	12	35	(23.7)
CKP	72	(95)	(41)	146	(51)	2,516	2,880	(13)	11	15	(3.2)
BCPG	296	(54)	24	215	38	1,267	1,265	0	47	49	(1.3)
BPP	(180)	N.A.	N.A.	(70)	157	11,308	3,264	246	5	(19)	24.0
Power sector	4,107	(43)	(50)	12,781	(68)	127,463	119,032	7	7.4	11.0	(3.6)

Source: Company data, KGI Securities Research

Figure 10: Sector earnings forecasted by Bloomberg consensus



Source: Bloomberg, KGI Securities Research

Positive 1# 2023F sector earning to roar back

We expect net combined sector earnings to grow 61% YoY, led by GULF, GPSC, RATCH, and BGRIM with impressive profits from projects in their pipelines. GPSC and BGRIM should see skyrocketing rebounds. Key drivers would be new projects, energy price downturn, higher Ft rate, and cost management. Upside risks are from new M&As, lower energy prices, and lower cost efficiency. We think this positive factor has already been factored into investor expectations to some degree.

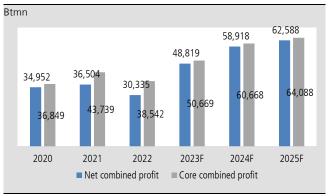
- GULF: GPD Unit 1-2, Jackson, Duqm Phase 2-3 and projects in the pipeline (expect 63% YoY profit growth).
- EA: Higher utilization rate of 1GWh battery plant, greater EV bus sales.
- GPSC and BGRIM: roaring-back earnings from expected fall in SPP gas prices.



Thailand

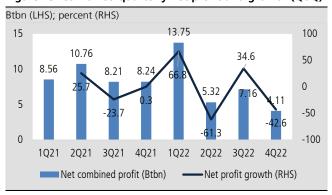


Figure 11: Aggregated net and core profits



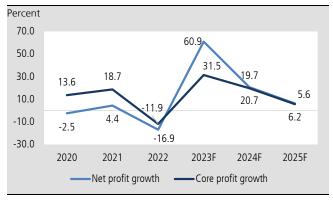
Source: Company data, KGI Securities Research

Figure 13: Combined quarterly net profit and growth (QoQ)



Source: Company data, KGI Securities Research

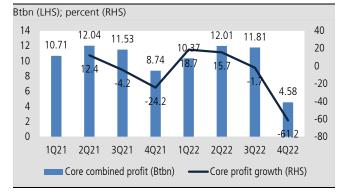
Figure 12: Net and core profit growths



Power Sector

Source: Company data, KGI Securities Research

Figure 14: Combined quarterly core profit and growth (QoQ)



Source: Company data, KGI Securities Research

Figure 15: 1Q23, 2Q23, and 2023 outlook of the sector

	1Q23F		2Q23F		2023F
Tone	Catalysts	Tone	Catalysts	Tone	Catalysts
	• 1Q23F aggregated earnings should rise further QoQ largely on a rise in Ft rate vs flatted gas prices, and seasonal factors (lower SG&A & resumption of demand). Demand are likely to roar back after holidays in 4Q22, while some power plants are expected to resume their operations after maintenances. Net profits are likely to turn in positive territory in most companies due to the absence of huge extra items.		*Upbeat momentum. We foresee continued rise in core combined earnings fueled by: a drop of SPP gas prices of Bt440-450/mmbtu (-13-15% QoQ) vs lower Ft rate; new commencing operations of some projects (Jackson, Paiton, GPD, Avaada) This is despite negatives from higher SG&A, some maintenances, and further rise in interest costs.		•Catalysts are in our expectation, but far away. We estimate power project bidding related to new PDPs for Thailand and Vietnam - espeically renewable. External factors (USD/THB, bond yields, and oil prices) should also reverse, resulting in stronger share price momentum. Also, we foresee a decline in gas and coal prices from 2Q23 with downtrend pattern.
Positive		Positive		Positive	
	*Stocks - that may provide impressive QoQ rise, would be EGCO (absence of extra items), RATCH (stronger operations), BGRIM (wider margin), GPSC (wider margin), and BPP (stronger CHP and SLG).		■ Stocks - which may provide impressive QoQ rise - would be GULF (new capacity and wider margin), followed by BGRIM & GPSC (wider margin) and RATCH ■ We will see the winners of a new round 5.2GWh renewable (SCOD: 2024-30). At a glance, we take side for potential players like GULF under JV with GUNKUL, EA, BGRIM, and GPSC. (Paiton project).		•Highlighted stocks consist of: - GULF: GPD Unit1-2, Jackson, Duqm Phase2-3 and projects in the pipeline (an expected +63% YoY profit growth); - EA: higher U.rate of 1GWh battery plant, higher EV bus sales; - GPSC and BGRIM - roaring-back earnings from expected fall in SPP gas prices

Source: KGI Securities Research



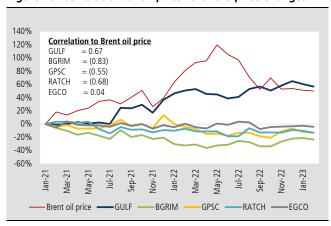




Positive 2# External headwinds (oil prices, US\$/THB, and bond yields) to continue to favor our views

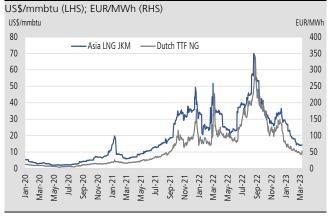
We expect these three external factors to continue to favor our views in 2023. Power stocks normally move against energy costs, US dollar debts, and interest rates. Except for GULF, which has a strong positive correlation to these three factors. Stock prices and opex have the greatest sensitivity to oil price, especially SPPs, followed by US\$/THB and bond yields. We estimate US\$/THB rate to move sideways in 1H23, before appreciating in 2H23.

Figure 16: Correlation of oil price vs. share price changes



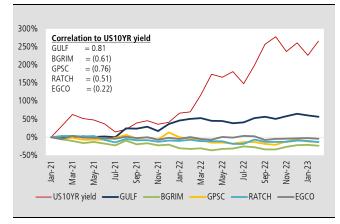
Source: Bloomberg, KGI Securities Research

Figure 18: Asia LNG JKM & Dutch TTF NG prices



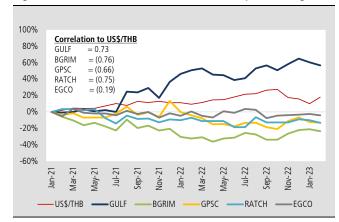
Source: Bloomberg, KGI Securities Research

Figure 17: Correlation of US10YR yield vs. share price changes



Source: Company data, KGI Securities Research

Figure 19: Correlation of US\$/THB vs. share price changes



Source: Company data, KGI Securities Research



Two rounds of renewable energy (RE) projects in Thailand with 8.9GWh (5.2GWh + 3.7GWh)

Aligning with Thailand's target to hit 50% RE in 2050, ERC is preparing to select power producers to sell clean energy to the government. The 5.2GWh will be operated from 2024-30 with four types (wind, solar, solar + BESS, and biogas). The signing of PPAs is planned for April 19, 2023. ERC is also planning an additional 3.7GWh, the timeline for which will follow the 5.2GWh.

In a nutshell, competition is quite intense as there is overdemand asking for capacity sold. As the winners would have robust expertise and liquidity, we take the side of potential winners like GULF under a JV with Gunkul Engineering (GUNKUL.BK/GUNKUL TB)*, followed by Energy Absolute (EA.BK/EA TB)*, BGRIM, and GPSC.

Large power players would have an edge over peers in bidding, but receive only limited upside due to scattered projects and lower potential returns, especially in Thailand. On the flipside, though small players should have lower winning rates, they would have huge upsides given their small capacities and profit bases.

The upcoming schemes will boost the pie of growth opportunities at home to those who are interested. Still, we doubt the continuity of the project bidding as there will be an election in the near future, resulting in uncertainty on the policies of a new set of authorities.

Figure 20: Overview of 5.2GWh and 3.7GWh RE projects

Туре	5.2GWh round	3.7GWh round
Wind	1,500	1,000
Solar farm	2,368	2,632
Solar + BESS	1,000	
Biogas	335	7
Industrial waste		30
Total (MW)	5,203	3,669

Source: KGI Securities Research

Unfavorable weather (warming) in 2023

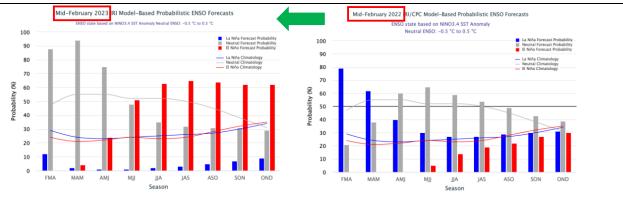
YoY negatives in 2023

Hydropower plants, which benefited from severe La Niña conditions in 2022, may deliver weaker performances YoY (both storage dams and run-of-river types), based on a greater probability of El Niño conditions (higher than the projection in November 2022). CKP should see the most adverse impact from this situation.

The weakest operations in 1Q23 on seasonality

We saw higher YoY water inflow for Xayaburi in January 2023, but Nam Ngum 2 declared lower production both QoQ and YoY on its conservative view.

Figure 21: Foreseeing El Niño (warming) in 2023 (YoY higher red columns) after the severe La Niña conditions in 2022

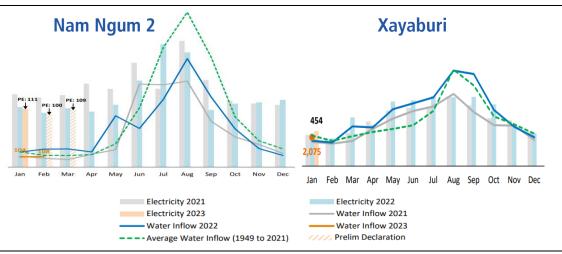


Source: Columbia Climate School, KGI Securities Research





Figure 22: The weakest peforamance in 1Q23F on the lowest season and conservative method



Source: CK Power, KGI Securities Research



Corporate Governance Report of Thai Listed Companies

Stock	Company name	Stock	Company name	Stock	Company name
AAV	ASIA AVIATION	EGCO	ELECTRICITY GENERATING	PTTEP	PTT EXPLORATION AND PRODUCTION
DVANC	ADVANCED INFO SERVICE	GFPT	GFPT	PTTGC	PTT GLOBAL CHEMICAL
AMA	AMA MARINE	GGC	GLOBAL GREEN CHEMICALS	PYLON	PYLON
AMATA	AMATA CORPORATION	GPSC	GLOBAL POWER SYNERGY	QH	QUALITY HOUSES
NAN	ANANDA DEVELOPMENT	HANA	HANA MICROELECTRONICS	RATCH	RATCHABURI ELECTRICITY GENERATING HOLDING
тот	AIRPORTS OF THAILAND	HMPRO	HOME PRODUCT CENTER	RS	RS
AP.	ASIAN PROPERTY DEVELOPMENT	INTUCH	SHIN CORPORATION	SCB	THE SIAM COMMERCIAL BANK
BANPU	BANPU	IRPC	IRPC	scc	THE SIAM CEMENT
ВСР	THE BANGCHAK PETROLEUM	IVL	INDORAMA VENTURES	sccc	SIAM CITY CEMENT
BCPG	BCPG	KBANK	KASIKORNBANK	SEAFCO	SEAFCO
BDMS	BANGKOK DUSIT MEDICAL SERVICES	KCE	KCE ELECTRONICS	SMPC	SAHAMITR PRESSURE CONTAINER
BEC	BEC WORLD	ККР	KIATNAKIN BANK	SPALI	SUPALAI
BEM	BANGKOK EXPRESSWAY AND METRO	ктв	KRUNG THAI BANK	SPRC	STAR PETROLEUM REFINING
BGRIM	B.GRIMM POWER	ктс	KRUNGTHAI CARD	svi	SVI
BPP	BANPU POWER	LH	LAND AND HOUSES	TACC	T.A.C. CONSUMER
BTS	BTS GROUP HOLDINGS	LPN	L.P.N. DEVELOPMENT	TCAP	THANACHART CAPITAL
ENTEL	CENTRAL PLAZA HOTEL	MAKRO	SIAM MAKRO	тнсом	THAICOM
K	CH. KARNCHANG	мвк	MBK	TISCO	TISCO FINANCIAL GROUP
KP	CK POWER	MINT	MINOR INTERNATIONAL	ТОР	THAI OIL
PALL	CP ALL	мтс	MUANGTHAI CAPITAL	TRUE	TRUE CORPORATION
PF	CHAROEN POKPHAND FOODS	PLANB	PLAN B MEDIA	ттв	TMBTHANACHART BANK
PN	CENTRAL PATTANA	PSH	PRUKSA HOLDING	VGI	VGI GLOBAL MEDIA
DELTA	DELTA ELECTRONICS (THAILAND)	PTG	PTG ENERGY	WHA	WHA CORPORATION
DTAC	TOTAL ACCESS COMMUNICATION	PTT	PTT	WHAUP	

Companies with Very Good CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
BAM	BANGKOK COMMERCIAL ASSET MANAGEMENT	GULF	GULF ENERGY DEVELOPMENT	SAPPE	SAPPE
BBL	BANGKOK BANK	JMT	JMT NETWORK SERVICES	SAWAD	SRISAWAD POWER 1979
CBG	CARABAO GROUP	LPH	LADPRAO GENERAL HOSPITAL	SINGER	SINGER THAILAND
CHG	CHULARAT HOSPITAL	M	MK RESTAURANT GROUP	SPA	SIAM WELLNESS GROUP
сом7	COM7	MAJOR	MAJOR CINEPLEX GROUP	TFG	THAIFOODS GROUP
DOHOME	DOHOME	MEGA	MEGA LIFESCIENCES	TKN	TAOKAENOI FOOD & MARKETING
ERW	THE ERAWAN GROUP	NETBAY	NETBAY	ZEN	ZEN CORPORATION GROUP
GLOBAL	SIAM GLOBAL HOUSE	OSP	OSOTSPA		
GLOBAL	SIAW GLOBAL HOUSE	USF	03013FA		

Companies with Good CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
ВСН	BANGKOK CHAIN HOSPITAL	ESSO	ESSO (THAILAND)	SF	SIAM FUTURE DEVELOPMENT
ВН	BUMRUNGRAD HOSPITAL	HUMAN	HUMANICA	SISB	SISB
EKH	EKACHAI MEDICAL CARE	RBF	R&B FOOD SUPPLY	трсн	TPC POWER HOLDING

Companies classified Not in the three highest score groups

Stoc	ck Company name	Stock	Company name	Stock	Company name
IIG	I&I GROUP	OR	PTT OIL AND RETAIL BUSINESS	STGT	SRI TRANG GLOVES (THAILAND)
KEX	KERRY EXPRESS (THAILAND)	STEC	SINO-THAI ENGINEERING AND CONSTRUCTION		

Source: www.thai-iod.com

Disclaimer: The disclosure of the survey result 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 assessment 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 result may be changed after that date or when there is any change to the relevant information. Nevertheless, KGI Securities (Thailand) Public Company Limited (KGI) does not confirm, verify, or certify the accuracy and completeness of such survey result.



Anti-corruption Progress Indicator

Level 5: Extended

Stock	Company name	Stock	Company name	Stock	Company name
ADVANC	ADVANCED INFO SERVICE	GLOBAL	SIAM GLOBAL HOUSE	QH	QUALITY HOUSES
ANAN	ANANDA DEVELOPMENT	GPSC	GLOBAL POWER SYNERGY	RATCH	RATCHABURI ELECTRICITY GENERATING HOLDING
BBL	BANGKOK BANK	HMPRO	HOME PRODUCT CENTER	ROBINS	ROBINSON DEPARTMENT STORE
BCH	BANGKOK CHAIN HOSPITAL	IRPC	IRPC	SCC	THE SIAM CEMENT
BDMS	BANGKOK DUSIT MEDICAL SERVICES	KBANK	KASIKORNBANK	SIRI	SANSIRI
BIGC	BIG C SUPERCENTER	KCE	KCE ELECTRONICS	SPALI	SUPALAI
CK	CH. KARNCHANG	KKP	KIATNAKIN BANK	STEC	SINO-THAI ENGINEERING AND CONSTRUCTION
DCC	DYNASTY CERAMIC	KTB	KRUNG THAI BANK	TCAP	THANACHART CAPITAL
DELTA	DELTA ELECTRONICS (THAILAND)	LPH	LADPRAO GENERAL HOSPITAL	TISCO	TISCO FINANCIAL GROUP
DRT	DIAMOND ROOFING TILES	PACE	PACE DEVELOPMENT CORPORATION	TMT	THAI METAL TRADE
EGCO	ELECTRICITY GENERATING	PTT	PTT	TOP	THAI OIL
GFPT	GFPT	PTTGC	PTT GLOBAL CHEMICAL		

Level 4: Certified

Stock	Company name	Stock	Company name	Stock	Company name
AAV	ASIA AVIATION	ERW	THE ERAWAN GROUP	SAPPE	SAPPE
AP	ASIAN PROPERTY DEVELOPMENT	GLOW	GLOW ENERGY	SAWAD	SRISAWAD POWER 1979
BA	BANGKOK AIRWAYS	GUNKUL	GUNKUL ENGINEERING	SCB	THE SIAM COMMERCIAL BANK
BANPU	BANPU	ILINK	INTERLINK COMMUNICATION	SCN	SCAN INTER
BCP	THE BANGCHAK PETROLEUM	KTC	KRUNGTHAI CARD	SEAFCO	SEAFCO
ВН	BUMRUNGRAD HOSPITAL	LH	LAND AND HOUSES	SVI	SVI
BJCHI	BJC HEAVY INDUSTRIES	LPN	L.P.N. DEVELOPMENT	TASCO	TIPCO ASPHALT
CBG	CARABAO GROUP	MAKRO	SIAM MAKRO	TKN	TAOKAENOI FOOD & MARKETING
CENTEL	CENTRAL PLAZA HOTEL	MALEE	MALEE SAMPRAN	TMB	TMB BANK
CHG		MINT		TRT	TIRATHAI
CKP		MODERN	MODERNFORM GROUP	TRUE	TRUE CORPORATION
CPF		NOK	NOK AIRLINES	TVO	THAI VEGETABLE OIL
CPN	CENTRAL PATTANA	PTTEP	PTT EXPLORATION AND PRODUCTION		
DTAC	TOTAL ACCESS COMMUNICATION	PYLON	PYLON		

Level 3: Established

Stock	Company name	Stock	Company name	Stock	Company name
BEM	BANGKOK EXPRESSWAY AND METRO	MTLS	MUANGTHAI LEASING	SPRC	STAR PETROLEUM REFINING
CPALL	CP ALL	SCI	SCI ELECTRIC		

No progress

Stock	Company name	Stock	Company name	Stock	Company name
AOT	AIRPORTS OF THAILAND	BPP	BANPU POWER	FN	FN FACTORY OUTLET
BCPG	BCPG	BTS	BTS GROUP HOLDINGS	TPCH	TPC POWER HOLDING

Source: www.cgthailand.org

Disclaimer: The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by the relevant institution as disclosed by the Office of the Securities and Exchange Commission, is made in order to comply with the policy and sustainable development plan for the listed companies. The relevant institution 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 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, KGI Securities (Thailand) Public Company Limited (KGI) does not confirm, verify, or certify the accuracy and completeness of the assessment result.



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Rating		Definition				

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Rating	Definition
Outperform (OP)	The stock's excess return over the next twelve months is ranked in the top 40% of KGI's coverage universe in the related market (e.g. Taiwan)
Neutral (N)	The stock's excess return over the next twelve months is ranked in the range between the top 40% and the bottom 40% of KGI's coverage universe in the related market (e.g. Taiwan)
Under perform (U)	The stock's excess return over the next twelve months is ranked in the bottom 40% of KGI's coverage universe in the related market (e.g. Taiwan).
Not Rated (NR)	The stock is not rated by KGI.
Restricted (R)	KGI policy and/or applicable law regulations preclude certain types of communications, including an investment recommendation, during the course of KGI's engagement in an investment banking transaction and in certain other circumstances.
	Excess return = 12M target price/current price-
Note	When an analyst publishes a new report on a covered stock, we rank the stock's excess return with those of other stocks in KGI's coverage universe in the related market. We will assign a rating based on its ranking. If an analyst does not publish a new report on a covered stock, its rating will not be changed automatically.

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