

Power Sector

Neutral Maintained

เราเชื่อว่าราคาหุ้นโรงไฟฟ้าที่ร่วงหนักสะท้อนความอ่อนไหวที่สูงต่อปัจจัยลบจากภายนอกและความกังวลต่อผลตอบแทนโครงการและภาระหนี้สินของบริษัท เรามองว่าหุ้นโรงไฟฟ้าไม่จัดเป็นหุ้น defensive เหมือนกับในอดีตแล้ว โดยจากมุมมองแบบระยะยาว และคำแนะนำของเราก่อนหน้านี้ เราแนะนำซื้อหุ้นในกลุ่มนี้เพียง 3 ตัวเท่านั้น จากทั้งหมด 8 ตัวที่เราศึกษา ทั้งนี้ ในช่วงที่ไม่มีปัจจัยกระตุ้นใหม่ ๆ เข้ามา ยกเว้นมูลค่าหุ้นและการเติบโต เราแนะนำ BCPG* สำหรับการลงทุนใน 4Q66 เพราะได้รับผลกระทบจากปัจจัยลบน้อยกว่ากลุ่มฯ และมีปัจจัยบวกเฉพาะตัว

แจ้งใจรอไปก่อน

Event

อัปเดตแนวโน้มกลุ่มโรงไฟฟ้า

Impact

คืนรอยยิ้มกลางปัจจัยลบที่ถาโถม

#1 Downside จากการลดค่า Ft โดยฝั่งการเมือง เราเห็น downside กำไรและราคาเป้าหมายของหุ้นโรงไฟฟ้าโดยเฉพาะ SPPs (นำโดย GPSC*, BGRIM*, และ GULF*) โดยเรามองว่ากำไรปี 2566-2568F มี downside 3-20% (Figure 4) และ 3-6% สำหรับตัวอื่น จากการแทรกแซงทางการเมืองรอบล่าสุด และ 3-6% สำหรับตัวอื่นๆ เราคิดว่าค่า Ft ลดลงเร็วกว่าราคาพลังงาน ทำให้กำไรของ SPP จะไม่ฟื้นตัวกลับไประดับเดิมในอดีต ทั้งนี้รัฐบาลได้ลดค่าไฟฟ้าในเดือนกันยายน-ธันวาคม 2566 ลงเหลือ 3.99 บาท/kWh (จาก 4.45 บาท/kWh ก่อนหน้า (-Bi0.47)) โดยการชดเชยของ กฟผ. ออกไป

#2 เสริมปัจจัยลบจากปัจจัยภายนอกมากขึ้น (US10YR, USS/THB, ราคาน้ำมัน) ทำให้โมเมนตัมตัวของกลุ่มโรงไฟฟ้าได้รับผลกระทบ เพราะบริษัทมีหนี้สูงโดยธรรมชาติ บางส่วนเป็นสกุล US\$ และมีรายได้เชื่อมโยงกับค่า Ft (ลูกค้าคู่ค้า และแบบ Adder)g เราพบว่าทุก 0.5% ของ Risk free rate ที่เพิ่มขึ้นจะทำให้ราคาเป้าหมายหุ้นในกลุ่มฯลดลง 1.3-2.6% จากเดิม (Figure 15)

#3 PDPs ล้าช้า แต่อาจจะกลับมาในปี 2567F ยังไม่มีการอัปเดตความคืบหน้าเกี่ยวกับแผน PDPs ของเวียดนามและไทย โดยเวียดนาม หลังจากที่ถูกปรับลดแผน PDP เมื่อ พ.ศ. 66 เรายังไม่เห็นการเปิดประมูลใดๆ เลย ส่วนไทย ดูเหมือนรัฐบาลใหม่จะมุ่งให้ความสำคัญกับการลดค่าครองชีพประชาชนก่อนนโยบายอื่น ๆ ซึ่งรวมถึงแผนพลังงาน แต่ทั้งนี้ราคาคววจะเห็นความคืบหน้าของแผน PDPs ทั้งสองประเทศในปี 2567 มากกว่า ซึ่งจะช่วยกระตุ้นแรงบวกต่อหุ้นกลุ่มโรงไฟฟ้าเหมือนที่เคยเกิดขึ้นในปี 2018

อย่างไรก็ตาม เราเห็นปัจจัยบวกจากฝั่งของราคาหุ้นและการเติบโต ทำให้มี reward/risk น่าสนใจ กล่าวคือ หุ้นในกลุ่มขณะนี้ซื้อขายกันที่ P/E ปี 2566-67F เพียง 22x และ 18x (จากอดีต >30x) ซึ่งส่วนมากลงมาต่ำกว่าปี 2565 ซึ่งเป็นปีที่ margin ค่าที่สุด ครั้งนี้เราเชื่อว่านักลงทุนที่ชอบเสี่ยง (risk lovers) น่าจะทยอยซื้อได้แล้ว นอกจากนี้เราคิดว่ากำไรหลักปี 2566-67F จะเพิ่ม 17%/19% YoY นำโดย GULF*, GPSC*, RATCH* และ BGRIM* จากโครงการใน pipeline, ราคาพลังงานลดลง, และการเร่งลงทุน

Valuation and action

เราเชื่อว่าราคาหุ้นโรงไฟฟ้าที่ร่วงหนักสะท้อนความอ่อนไหวที่สูงต่อปัจจัยลบจากภายนอกและความกังวลต่อผลตอบแทนโครงการและภาระหนี้สินของบริษัท เรามองว่าหุ้นโรงไฟฟ้าไม่จัดเป็นหุ้น defensive เหมือนกับในอดีตแล้ว โดยจากมุมมองแบบระยะยาว และคำแนะนำของเราก่อนหน้านี้ เราแนะนำซื้อหุ้นในกลุ่มนี้เพียง 3 ตัวเท่านั้นจากทั้งหมด 8 ตัวที่เราศึกษา ทั้งนี้ ในช่วงที่ไม่มีปัจจัยกระตุ้นใหม่ ๆ เข้ามา ยกเว้นมูลค่าหุ้นและการเติบโต เราแนะนำ BCPG* สำหรับการลงทุนใน 4Q66 เพราะได้รับผลกระทบจากปัจจัยลบน้อยกว่ากลุ่มฯ และมีปัจจัยบวกเฉพาะตัว

Risks

ปิดโรงไฟฟ้านอกแผน, ปัญหา cost overruns, ความผันผวนของอัตราแลกเปลี่ยน และอัตราดอกเบี้ย

Wetid Tangjindakun, CISA
66.2658.8888 Ext. 8855
wetid@kgi.co.th

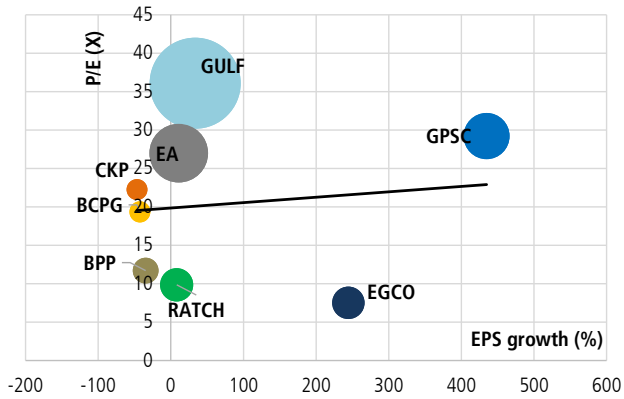
Peer comparison

Stocks	Rating	TP	Mkt.price	Upside	Mkt.cap	Implied PE-24F	EPS (Bt)			EPS growth (%)			PE (x)			BPS			PBV (x)			Div. yield			ROE (%)				
							22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F	22	23F	24F		
BGRIM*	OP	42.00	26.75	57.0	70	42.2	-0.5	0.9	1.0	n.a.	n.a.	14	-56	31	27	16.2	17.3	18.6	1.7	1.5	1.4	0.2	1.5	0.8	-3.0	5.0	5.4		
GPSC*	N	61.00	43.25	41.0	122	40.2	0.3	1.0	1.5	-88	229	46	137	42	28	40.8	41.3	42.1	1.1	1.0	1.0	1.2	1.8	2.0	0.8	2.5	3.6		
GULF*	OP	60.00	44.25	35.6	519	36.0	1.0	1.4	1.7	49	40	22	45	32	27	11.6	12.2	13.1	3.8	3.6	3.4	1.4	1.9	2.3	8.4	11.2	12.7		
RATCH*	N	39.00	30.25	28.9	44	10.2	2.7	3.1	3.8	-51	15	25	11	10	8	49.4	50.8	53.0	0.6	0.6	0.6	5.3	5.3	5.5	5.4	6.0	7.2		
EGCO*	N	138.00	116.00	19.0	61	7.9	5.1	16.2	17.5	-35	218	8	23	7	7	229.4	238.8	249.6	0.5	0.5	0.5	5.6	6.0	6.0	2.2	6.8	7.0		
BCPG*	OP	12.00	9.30	29.0	27	20.9	0.9	0.5	0.6	22	-49	24	10	20	16	10.1	10.2	10.4	0.9	0.9	0.9	3.9	4.0	4.1	9.0	4.6	5.6		
BPP*	N	15.50	13.50	14.8	41	11.6	1.9	1.2	1.3	84	-34	9	7	11	10	17.1	17.6	18.4	0.8	0.8	0.7	4.8	4.8	4.8	10.9	6.9	7.3		
CKP*	N	4.00	3.16	26.6	26	23.8	0.3	0.2	0.2	12	-50	12	11	21	19	4.7	4.7	4.8	0.7	0.7	0.7	2.8	3.2	3.5	6.4	3.2	3.5		
Sector : Neutral																													

Source: KGI Securities Research

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

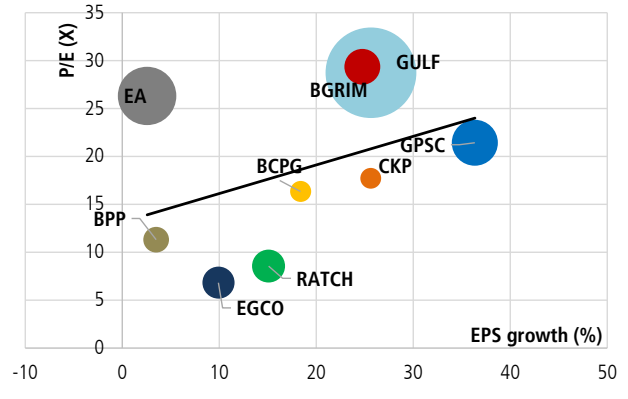
Percent (X axis), times (Y axis)



Source: Bloomberg, KGI Securities Research
 *Note: BGRIM has N.A. growth due to its negative EPS in 2022

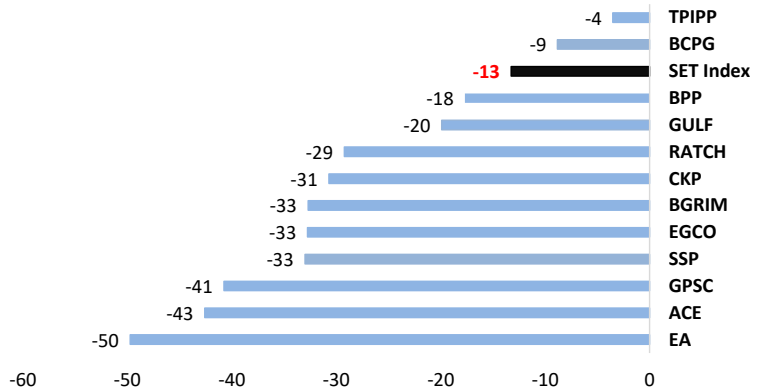
Figure 2: Street's 2024F P/E vs. EPS growth

Percent (X axis), times (Y axis)



Source: Bloomberg, KGI Securities Research

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



Source: Bloomberg, KGI Securities Research

Paradox margin recovery in key players

Bumpy recovery. SPP margin recovery, which was only half its normal level, would be bumpy. We believe it is unlikely to return to its past level again given the policy to cut Ft rate vs. a rebound in energy prices in 4Q23 (coal, oil, and gas), which are still higher than the historical average.

EGAT's debts (Bt100bn as of end 2Q23) are expected to be prolonged and higher as the government cut the electricity tariff to Bt3.99/kWh (from Bt4.45/kWh (-Bt0.46) from Sep-Dec 2023). This could imply that the Ft rate will drop down to Bt0.204/kWh in Sep-Dec 2023 (-Bt0.71/kWh from the previous round). Meanwhile, SPP gas price should drop a further 10-15% in 3Q23, before stabilizing in 4Q23. Net-net, SPP margins could peak in 3Q23, before declining in 4Q23. This is no clarity about the execution of pegging a pool gas price at Bt305/mmbtu in mention period.

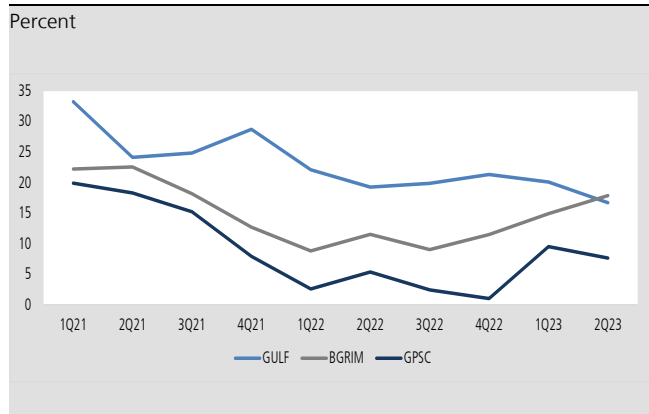
Implications: Our calculations indicate earnings downside of 3-20% for the top three stocks that have high exposure to electricity to industrial users (Bt3.99/kWh vs our assumption of Bt4.45/kWh in Sep-Dec 2023). Meanwhile, our calculations show other players (IPP and renewable players) have downside risk of 3-6% to earnings.

We sense that some may question about the probability of the government to intervene further to reduce electricity tariff (the prime minister aims to reduce to Bt3.00/kWh). There is no clear answer now, but LNG prices are rebounding and power producers have not yet recover to where they were in pre-COVID level. With a normal mechanism, Ft should rise or sustain, not fall from politic intervene like seen now – resulting in some overhang.

Figure 4: Our sensitivity indicates some downside to top three SPPs

Company	Rating	TP	23F core profit (Btmn)	Current assumptions	New assumptions	NET IMPACT			
				Avg. Ft rate (Bt/kWh)	Ft rate	23F profit	%	new TP	%
GULF	OP	60.00	16,013	1.04	0.89	(575)	(3.6)	57.0	(5.0)
GPSC	N	61.00	2,929	1.04	0.89	(581)	(19.8)	50.0	(18.0)
BGRIM	OP	42.00	2,275	1.04	0.89	(424)	(18.7)	35.0	(16.7)

Source: Bloomberg, KGI Securities Research

Figure 5: Margins of top three players (GULF, BGRIM, GPSC) only halfway to full recovery


Source: Company data, KGI Securities Research

Figure 6: Top 3 stocks: Sensitivity (Ft rate, gas price, and US\$/THB), and revenues from IUs

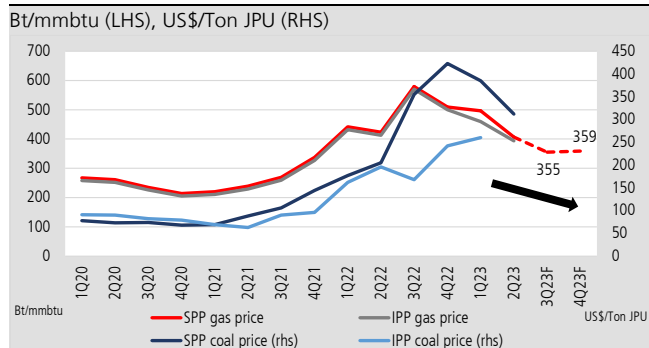
Company	(+/-) 1 satang/year change in Ft rate
GULF	Bt30-35mn to full-year net profit
GPSC	Bt60mn to full-year net profit
BGRIM	Bt18mn to full-year net profit

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

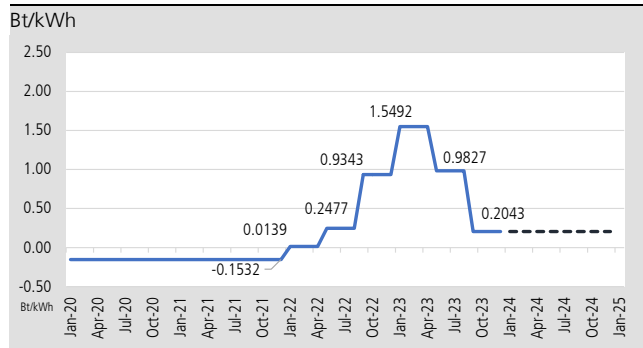
Company	(+/-) Bt10/mmbtu change in SPP gas price
GULF	Bt120mn to full-year net profit
GPSC	Bt350mn to full-year net profit
BGRIM	Bt170mn to full-year net profit

Company	IU portion to core revenue
GULF	10-13%
GPSC	22-25%
BGRIM	20-23%

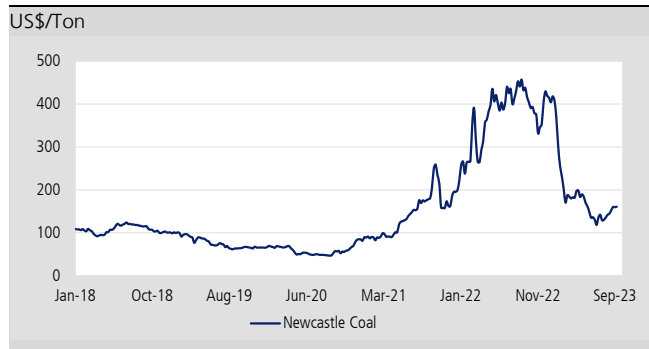
Source: Company data, KGI Securities Research

Figure 7: Gas and coal price movements and forecasts


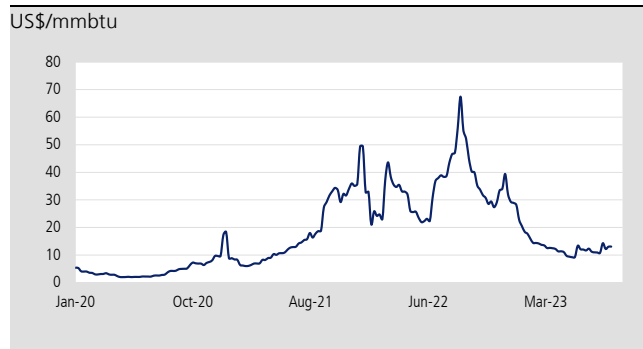
Source: Company data, KGI Securities Research

Figure 8: Ft rate to trend down and stay ahead


Source: Company data, KGI Securities Research

Figure 9: Newcastle coal price


Source: Company data, KGI Securities Research

Figure 10: Asia LNG JKM price


Source: Bloomberg, KGI Securities Research

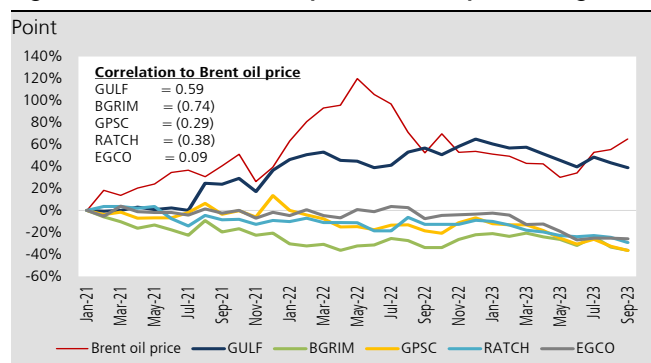
From tailwinds to headwinds (oil prices, US\$/THB, and bond yields)

Three external factors dragging on sentiment

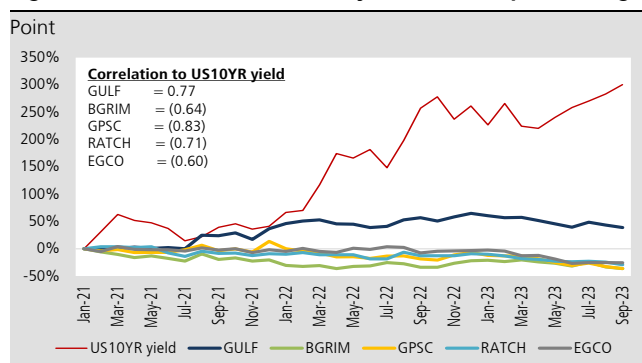
It would be hard for power players to find new deals with enticing IRRs like in the past, given the keen competition and high operating costs from inflation and interest rate upcycle. All of the power stock prices under our coverage have plunged QTD reflecting higher bond yields, oil prices, and US\$/THB depreciation missing our house view.

In 4Q23, we still expect US\$/THB rate (easing concerns) and bond yields (seasonality and late cycle of interest upcycle) to reverse to favor power share prices to some degree.

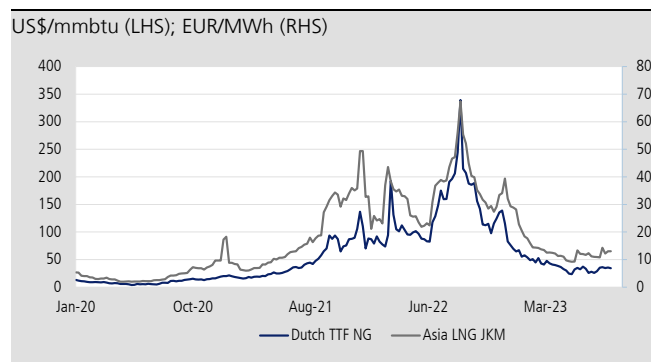
That said, GULF and BCPG could overcome these factors on superior fundamentals.

Figure 11: Correlation of oil price vs. share price changes


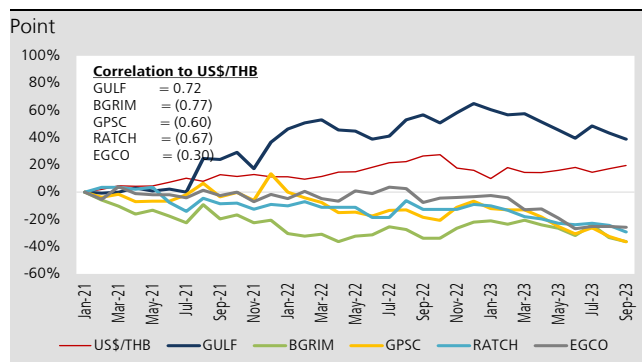
Source: Bloomberg, KGI Securities Research

Figure 12: Correlation of US10YR yield vs. share price changes


Source: Company data, KGI Securities Research

Figure 13: Asia LNG JKM & Dutch TTF NG prices


Source: Bloomberg, KGI Securities Research

Figure 14: Correlation of US\$/THB vs. share price changes


Source: Company data, KGI Securities Research

Interest structure & currency of debts

Our study suggests that EGCO is the riskiest stock on its highest exposure to US\$-linked debts (60% of debts) despite its total interest-bearing debts being fixed. On the flipside, BPP has the highest exposure to floating-rate debts amidst the interest rate upcycle.

Figure 15: Our sensitivity indicates some downside to top three SPPs

Stocks	Rating	TP Bt	50bps change in risk free rate		Interest structure (%)		Currency of debts (%)					
			New TP	(%)	Float	Fixed	THB	US\$	EUR	JPY	AUD	
BPP*	N	15.50	15.30	-1.3	75	25	80	10			10	
BCPG*	OP	12.00	11.70	-2.5	53	47	67	12			21	
RATCH*	N	39.00	38.00	-2.6	43	57	38	37				25
GPSC*	N	61.00	60.00	-1.6	30	70	90	10				
CKP*	N	4.00	3.90	-2.5	20	80	>90					
GULF*	OP	60.00	59.00	-1.7	10	90	50	35	15			
BGRIM*	OP	42.00	41.00	-2.4	3	97	80	20				
EGCO*	N	138.00	135.00	-2.2		100	19	61	17			3

Source: Company data, KGI Securities Research

A cycle of earnings cuts continues

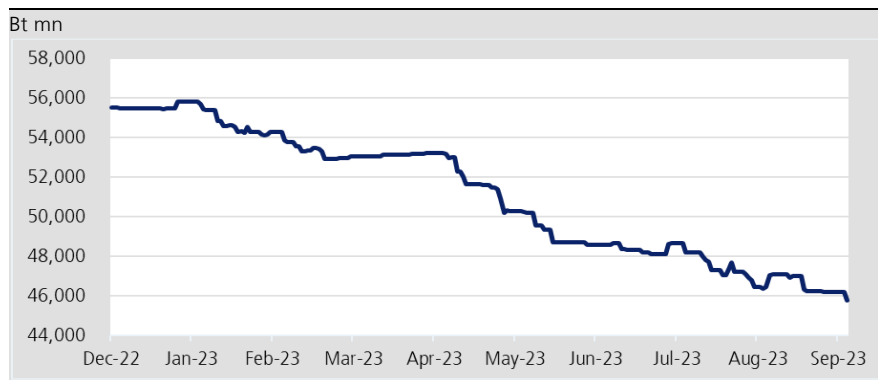
Heavy cuts continued QTD with cuts of 18% YTD

Sector earnings forecasts have been cut heavily QTD (vs. 10% YTD in 2Q23), with broad-based downgrades for most stocks, with the exceptions being BGRIM and GULF. We saw higher cuts for the same top-five stocks CK Power (CKP.BK/CKP TB)* (-42%), Banpu Power (BPP.BK/BPP TB)* (-28%), RATCH (-27%), GPSC (-26%), and Electricity Generating (EGCO.BK/EGCO TB)* (-22%).

Additional cuts expected

Given the higher for longer interest rate upcycle, declining Ft rate, and low returns on new M&As, most power players should continue to disappoint investor expectations. That said, we have cut our earnings forecasts and are now more conservative than the Street's – 6% below the consensus.

Figure 16: Sector earnings forecasted by Bloomberg consensus



Source: Bloomberg, KGI Securities Research

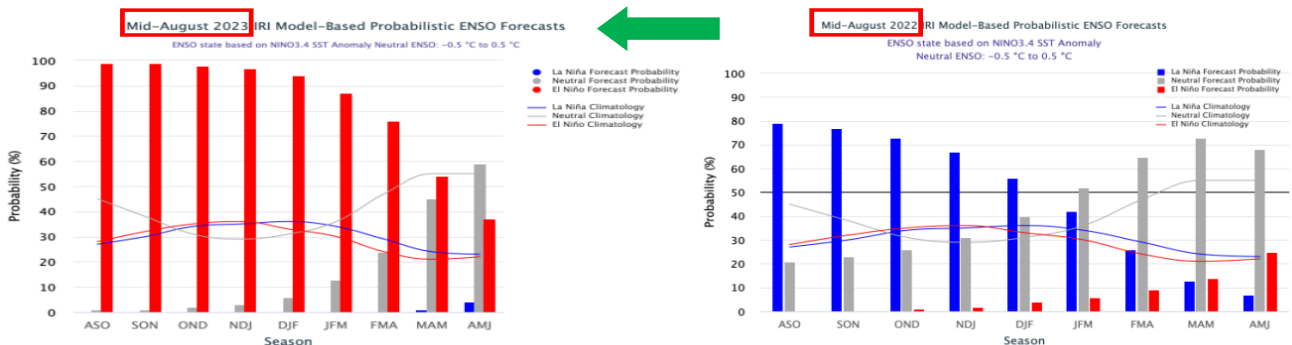
Stronger El Niño, partly offset by some rainfall

Probability of El Niño remains high at 90-95% in August-December 2023 (vs. 70-85% in the previous projection)

The higher probability implies a stronger-than-expected impact from EL Niño, which normally lasts 2-5 years. Still, thanks to some monsoons, the negative impact to hydropower plants seems softer to some degree.

We estimate a plunge in YoY operations of hydro facilities at both storage dams and run-of-river types, while a strong rebound QoQ in 3Q23F is still expected. For 3Q23F, Xayaburi should show a seasonal surge in production, while NN2 already declared electricity volume of 425GWh (+44% QoQ, -25% YoY). CKP remains the most obvious victim of El Niño, followed by BCPG, GPSC and RATCH.

Figure 17: Bearing with El Niño (warming) in 2023 (YoY higher red columns) after severe La Niña conditions in 2022

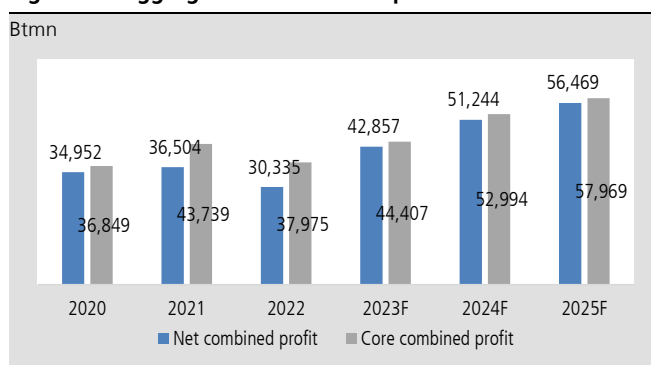


Source: Columbia Climate School, KGI Securities Research

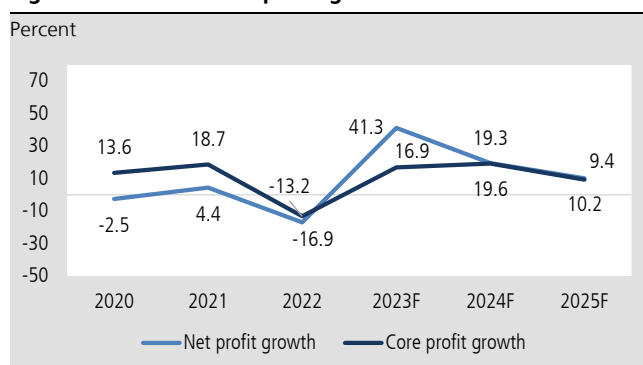
Positive - 2023F sector earnings to roar back

Net combined sector earnings are forecast to surge 41% YoY in 2023F, led by GULF, GPSC, RATCH, and BGRIM with impressive profits from projects in their pipelines. GPSC and BGRIM should see strong 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 the positive factors have already been factored into investor expectations to some degree.

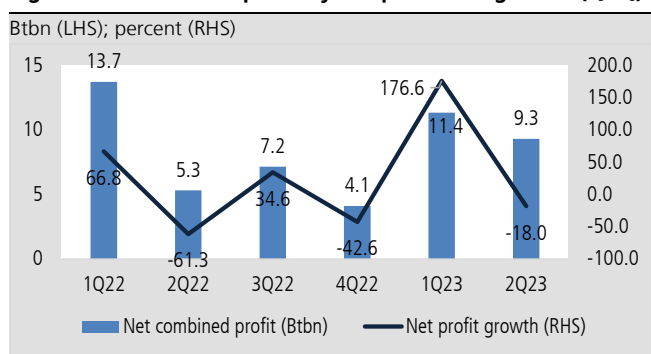
- **BCPG**: Acquisition of four gas-fired plants in the US, oil terminal.
- **GULF**: GPD Unit 1-2, Duqm Phase 2-3 and projects in the pipeline growth.
- **EA**: Higher utilization rate for 1GWh battery plant, greater EV bus sales.
- **GPSC and BGRIM** – Earnings roaring-back from falling SPP gas prices.

Figure 18: Aggregated net and core profits


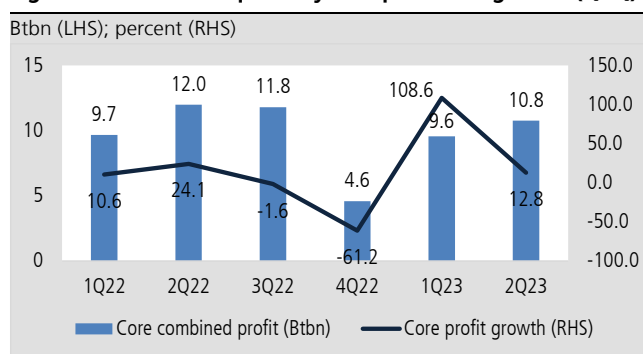
Source: Company data, KGI Securities Research

Figure 19: Net and core profit growths


Source: Company data, KGI Securities Research

Figure 20: Combined quarterly net profit and growth (QoQ)


Source: Company data, KGI Securities Research

Figure 21: Combined quarterly core profit and growth (QoQ)


Source: Company data, KGI Securities Research

Figure 22: 2H23 and 2023 outlook

3Q23F		4Q23F		2023F	
Tone	Catalysts	Tone	Catalysts	Tone	Catalysts
Positive (core profit) Negative (net)	Momentum gain pace. 3Q23F core aggregated earnings should rise further QoQ largely on plunge in gas prices (-10-15% QoQ) despite lower Ft rate, peak season of hydro projects, and new commencing operation (led by GULF, BCPG, BPP, and BGRIM), and some higher dispatch from SPP replacement (but seasonal lower IPP dispatch). A YoY rise would be seen in SPPs, while CKP would book a YoY plunge. That said, with current US\$/THB, there would be huge FX losses - resulting in a plunge in net profit.	Negative	Seasonal decline. Combined core profit would drop QoQ on seasonal items such as SG&A and lower utility demand from holidays. SPP gas prices would sustain QoQ and Ft would drop significantly on politic pressure (-Bt0.7/kWh). A YoY rise would be from a low-based effect.	Positive	Catalysts are far and blurred mainly on politics, except for 2023F growth and valuation. Only 2023F sector earnings growth with new expansion, compelling valuation, despite negative from external factors (USD/THB, bond yields, and oil prices). Most share prices have underperformed SET Index iwth 10-30% drop in YTD on political pressure, but we foresee limited share price downside from here. Power plays should benefit from downward gas price from 2Q23, with lower coal cost in 2H23.
	Stocks - that should provide a strong QoQ rise, would be SPPs (BGRIM, GPSC), CKP, and GULF (new projects and wider margin).		Stocks - GULF should has the highly visible outlook in 4Q23. - On 5.2GWh renewable (SCOD: 2024-30), the PPA sign may be gradually seen in 4Q23 or delayed due to priority from the government.		Stocks consist of: - BCPG: Acquisition of 4 gas-fired in the US, oil terminal - GULF: GPD Unit1-2, Jackson, Duqm Phase2-3 and projects in the pipeline growth); - EA: higher U rate of 1GWh battery plant, higher EV bus sales; - GPSC and BGRIM - roaring-back earnings from falling SPP gas prices

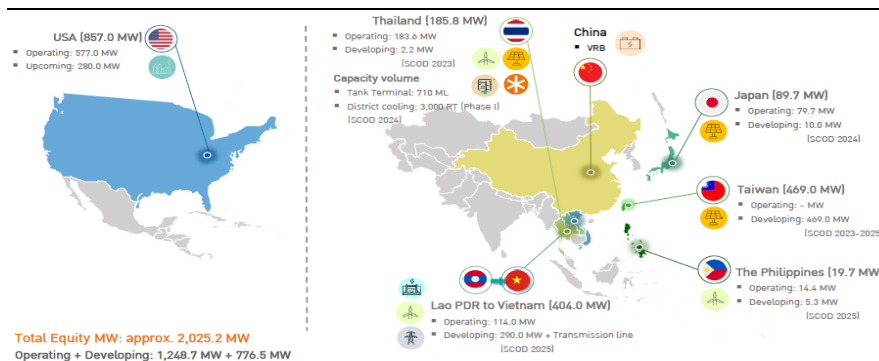
Source: KGI Securities Research

Why we pick BCPG in 4Q23

Due to our cautious view, we still need to prudently pick a stock that should feel less impact from government intervention and has its-own catalysts in the forefront.

- More sanguine outlook.** Overall projects have gained pace and BCPG foresees more M&A deals ahead. The earnings gap from adder and geothermal projects, have been mostly fulfilled by operating assets in the US and the remaining from upcoming projects in the pipeline. We foresee a rise in Henry hub gas price in 2H23 and delayed recession probability to benefit BCPG there.
- Promising earnings.** The company's 2H23F earnings should surge HoH. We expect 3Q23F core profit to be the peak for 2023, propelled by i) high season for hydropower plants, ii) full-quarter contribution from the oil terminal, iii) resumed operations at its first two power plants in the US, and iv) first recognition of Liberty & Patriot.
- Action.** We believe greater investor confidence would continue to fuel momentum. While concerns on adder and geothermal gaps have been removed, earnings should bottom in 2023F before stepping into an uptrend.

Figure 23: Footprints in seven countries led by the US



Source: Company data, KGI Securities Research

Corporate Governance Report of Thai Listed Companies



Companies with Excellent CG Scoring

Stock	Company name	Stock	Company name	Stock	Company name
AAV	ASIA AVIATION	EGCO	ELECTRICITY GENERATING	PTTEP	PTT EXPLORATION AND PRODUCTION
ADVANC	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
ANAN	ANANDA DEVELOPMENT	HANA	HANA MICROELECTRONICS	RATCH	RATCHABURI ELECTRICITY GENERATING HOLDING
AOT	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
BCP	THE BANGCHAK PETROLEUM	IVL	INDORAMA VENTURES	SCCC	SIAM CITY CEMENT
BCPG	BCPG	KBANK	KASIKORN BANK	SEAFECO	SEAFECO
BDMS	BANGKOK DUSIT MEDICAL SERVICES	KCE	KCE ELECTRONICS	SMPC	SAHAMITR PRESSURE CONTAINER
BEC	BEC WORLD	KKP	KIATNAKIN BANK	SPALI	SUPALAI
BEM	BANGKOK EXPRESSWAY AND METRO	KTB	KRUNG THAI BANK	SPRC	STAR PETROLEUM REFINING
BGRIM	B. GRIMM POWER	KTC	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
CENTEL	CENTRAL PLAZA HOTEL	MAKRO	SIAM MAKRO	THCOM	THAICOM
CK	CH. KARNCHANG	MBK	MBK	TISCO	TISCO FINANCIAL GROUP
CKP	CK POWER	MINT	MINOR INTERNATIONAL	TOP	THAI OIL
CPALL	CP ALL	MTC	MUANGTHAI CAPITAL	TRUE	TRUE CORPORATION
CPF	CHAROEN POKPHAND FOODS	PLANB	PLAN B MEDIA	TTB	TMBTHANACHART BANK
CPN	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	SRI SAWAD POWER 1979
CBG	CARABAO GROUP	LPH	LADPRAO GENERAL HOSPITAL	SINGER	SINGER THAILAND
CHG	CHULARAT HOSPITAL	M	MK RESTAURANT GROUP	SPA	SIAM WELLNESS GROUP
COM7	COM7	MAJOR	MAJOR CINEPLEX GROUP	TFG	THAI FOODS 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		



Companies with Good CG Scoring

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

Companies classified Not in the three highest score groups

Stock	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	KASIKORN BANK	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
BH	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	CHULARAT HOSPITAL	MINT	MINOR INTERNATIONAL	TRT	TIRATHAI
CKP	CK POWER	MODERN	MODERNFORM GROUP	TRUE	TRUE CORPORATION
CPF	CHAROEN POKPHAND FOODS	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
BPCPG	BPCPG	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.

KGI Locations

China	Shanghai	Room 1507, Park Place, 1601 Nanjing West Road, Jingan District, Shanghai, PRC 200040
	Shenzhen	Room 24D1, 24/F, A Unit, Zhen Ye Building, 2014 Bao'annan Road, Shenzhen, PRC 518008
Taiwan	Taipei	700 Mingshui Road, Taipei, Taiwan Telephone 886.2.2181.8888 · Facsimile 886.2.8501.1691
Hong Kong		41/F Central Plaza, 18 Harbour Road, Wanchai, Hong Kong Telephone 852.2878.6888 Facsimile 852.2878.6800
Thailand	Bangkok	8th - 11th floors, Asia Centre Building 173 South Sathorn Road, Bangkok 10120, Thailand Telephone 66.2658.8888 Facsimile 66.2658.8014
Singapore		4 Shenton Way #13-01 SGX Centre 2 Singapore 068807 Telephone 65.6202.1188 Facsimile 65.6534.4826

KGI's Ratings

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.

Disclaimer

KGI Securities (Thailand) Plc. ("The Company") disclaims all warranties with regards to all information contained herein. In no event shall the Company be liable for any direct, indirect or any damages whatsoever resulting from loss of income or profits, arising by utilization and reliance on the information herein. All information hereunder does not constitute a solicitation to buy or sell any securities but constitutes our sole judgment as of this date and are subject to change without notice.