

## PLEASE CLICK ON THE PAGE NUMBER TO MOVE TO THE RELEVANT PAGE.

## **KEY HIGHLIGHTS**

Strategy	
Strategy	Page 2
Cut in FT rate to benefit the retail and hotel sectors.	
Sector	
Food	Page 5
Seeing the light at the end of the tunnel for the food sector.	

## **KEY INDICES**

Symbol	Close	Chg	%Chg
SET	1,522.96	(4.61)	(0.30)
SET50	933.53	(3.64)	(0.39)
Value (Btm) - SET	39,701		
Top 5 Sector			
BANK	394.23	(3.07)	(0.77)
PETRO	728.81	(0.22)	(0.03)
PROP	239.04	(1.79)	(0.74)
ENERG	21,417.56	(46.40)	(0.22)
ICT	164.10	2.07	1.28

Source: Bloomberg

## **TOP VOLUME**

Symbol	Price (Bt)	Chg (%)	Volume ('000)
BDMS	26.25	(1.87)	76,520.7
CPALL	62.25	(1.58)	31,850.9
KBANK	127.00	(1.55)	13,501.7
PTT	34.00	0.00	50,211.1
PTTEP	169.00	0.60	9,551.3

## **TOP GAINERS**

		Chg	Volume
Symbol	Price (Bt)	(%)	(000)
ALL	0.06	20.00	605.1
NATION	0.09	12.50	591.4
M-STOR	7.30	11.45	6.3
CIG	0.24	9.09	113,883.9
GABLE	5.25	8.47	12,756.3

## **TOP LOSERS**

Symbol	Price (Bt)	Chg (%)	Volume ('000)
В	0.05	(16.67)	9,884.3
SDC	0.06	(14.29)	8,686.9
EMC	0.10	(9.09)	451.5
SR	1.15	(7.26)	86.0
ROH	3.00	(6.83)	220.9

## **KEY STATISTICS**

		%Ung			
Commodity	Current Price	1m	3M	YTD	
Brent crude*	94.4	11.9	25.3	15.0	
Dubai crude*	95.4	11.5	25.6	21.2	
Baltic Dry Index	1,439.0	16.3	33.5	(5.0)	
Gold Spot***	1,931.1	2.2	(0.3)	5.9	

<sup>\*(</sup>US\$/bbl), \*\*\* (US\$/toz)

# FOREIGN PORTFOLIO INVESTMENT IN EQUITIES (THAILAND)

Day	MTD Net	YTD Net	YTD Net
(Mil US\$)	(Mil US\$)	(Mil US\$)	YoY%
(31.0)	(450.3)	(4,361.3)	(8,797.4)

Source: Bloomberg

Foreign Exchange Rate - THB/US\$ (onshore) = 36.08 Interest Rate (%) - TH 1-day RP = 1.50 Thai Lending Rate (%)\* - MLR = 6.85



#### **STRATEGY - THAILAND**

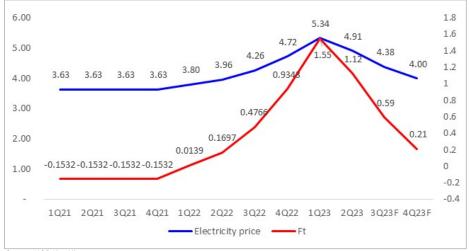
## Cut In FT Rate To Benefit The Retail And Hotel Sectors

PTT is the only company who bears the cost related to the unexpected third cut in electricity tariff early this week. Based on our calculation, PTT's cashflow should drop by Bt6.2b-15.1b. The unexpected tariff cut also resulted in lower margins for SPP operators. In the energy space, PTTEP is the safe haven under the new energy policy. Most beneficiaries will be in the hotel and retail sectors due to a cost reduction (utility cost accounts for 2.5-9.0% of total cost). Top picks: CPALL and ERW.

#### WHAT'S NEW

- Third cut in FT rate. The Cabinet announced a third cut in fuel tariff (FT) rate, (a part of electricity tariff to reflect the fuel cost adjustment for generating electricity) by Bt0.11 per unit. As a result, the average electricity price for the country will be Bt3.99/unit (-15% yoy and -15% qoq), effective from Sep to Dec 23.
- The Energy Regulatory Commission's (ERC) meeting on 28 July announced the first FT cut for the period of Sep-Dec 23 by Bt0.25/unit to Bt0.6689/unit. This means the average tariff was down to Bt4.45/unit from Bt4.70/unit. Last week, the government had reduced the average electricity price from Bt4.45/unit to Bt4.10/unit (implying the second FT cut by Bt0.35/unit for the same period).
- Under the second FT cut, the government requested The Electricity Generating Authority
  of Thailand (EGAT) to continue subsidising the electricity cost. EGAT has been subsidising
  the electricity cost since Sep 21 and loss peaked at Bt138b before declining to Bt111b
  currently.

#### FT AND ELECTRICITY PRICES (BT/UNIT)



## Source: UOB Kay Hian

#### **TOP BUYS**

Company	Share Price 18 Sept 23 (Bt)	Target Price (Bt)	Upside/ (Downside) To TP (%)		
CPALL	63.25	78.00	23.3		
ERW	5.65	6.20	9.7		
PTTEP	168.00	182.00	8.3		
0 1100					

## Source: UOB Kay Hian SECTOR RATINGS

Sector	UOBKH Rating	
Energy	MARKET WEIGHT	
Hotel	MARKET WEIGHT	
Retail	OVERWEIGHT	

Source: UOB Kay Hian

### ANALYST(S)

## **Tanaporn Visaruthaphong**

+662 659 8305

tanaporn@uobkayhian.co.th

## **Benjaphol Suthwanish**

+662 659 8301

Benjaphol@uobkayhian.co.th

#### **Arsit Pamaranont**

+662 659 8317

Arsit@uobkayhian.co.th

## Kasemsun Koonnara

+662 659 8027

kasemsun@uobkayhian.co.th

#### Kampon Akaravarinchai

+662 659 8031

kampon@uobkayhian.co.th

#### Kochakorn Sutaruksanon

+662 659 8303

kotchakorn@uobkayhian.co.th

### PEER COMPARISON

			Last Price	Target	Upside	Market		PE		<b>EPS Growth</b>	PEG	P/B	Yield	ROE
Company	Ticker	Rec.	18 Sept 23	Price	Downside	Cap	2022	2023F	2024F	2023F	2023F	2023F	2023F	2023F
			(Bt)	(Bt)	(%)	(US\$m)	(x)	(x)	(x)	(%)	(x)	(x)	(%)	(%)
CP All	CPALL TB	BUY	63.25	78.00	23.3	16,096	42.8	34.1	28.3	23.1	1.3	5.1	1.5	5.6
The Erawan Group	ERW TB	BUY	5.65	6.20	9.7	725	n.a.	39.2	31.7	na	-0.1	3.9	1.1	10.9
PTT Exploration and Production	PTTEP TB	BUY	168.00	182.00	8.3	18,894	9.4	10.9	9.3	0.8	-0.8	1.4	4.8	13.5
Source: UOB Kay Hian														

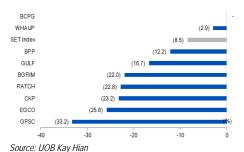


#### Wednesday, 20 September 2023

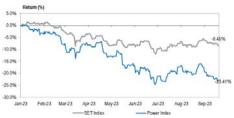
#### **ENERGY (MARKET WEIGHT)**

- PTT still the national service company. Based on our channel check, it is likely that PTT Pcl. (PTT TB/BUY/Target: Bt41.00) needs to bear the cost related to the third FT cut by reducing the gas price charged to power operators and seek a reimbursement in the next period (Jan to Apr 24). However, there are no details on how this mechanism works and how much PTT needs to bear. The government may assume PTT's gas price charged to power operators during Sep-Dec 23 at Bt304 per million British Thermal Unit (MMBTU) compared with the Bt350/MMBTU gas price estimated by PTT. If it is the case, we believe PTT will bear Bt6.2b—15.1b for this additional FT cut. Based on accounting standards, PTT should book this additional Bt6.2b—15.1b as an account receivable transaction and not affect its profit and loss statement. However, this Bt6.2b-15.1b will hurt PTT's cashflow.
- PTT Exploration and Production (PTTEP TB/BUY/Target: Bt182.00) No impact from populist policy. PTTEP stands to directly profit from the hike in crude oil prices. The Dubai crude oil price in 3Q23 witnessed a 16% rise compared with end-2Q23. The optimistic outlook is attributed to announcements made by Saudi Arabia and Russia, indicating extensions of production cuts amounting to 1.3m barrels per day (bpd), effective from the end of September to end-December. Furthermore, the US strategic oil reserves (SPR) reached its lowest point in 40 years at 350m barrels over the past four weeks. This level is equivalent to a life reserve of just 15-17 days, significantly below the historical average of 27-30 days. This suggests the likelihood of the US increasing its oil purchases to bolster its reserves. PTTEP's stock price exhibits a correlation that aligns with crude oil prices as high as 87%.
- Insignificant impact to IPP. We do not expect independent power producers (IPP) to be affected by higher or lower gas costs. Under the power purchase agreements (PPA) of IPPs, the risk of fuel prices will be passed through to EGAT and revenues are mostly secured on long-term contracts, which guarantee IPPs a minimum income.
- Lower margins ahead for SPP. After witnessing a remarkable margin performance in the Thai power sector in 1H23, we turn more pessimistic on the sector's margin outlook starting from September onwards. Despite our anticipation of a significant reduction in feed gas costs, dropping from an average of Bt404/MMBTU in 2Q23 to Bt350/MMBTU in 4Q23 (a 14% decrease that aligns with our and market expectations), sector margins face increasing pressure due to the sharp decline in FT introduced by the new government. The FT rate for has been decreased from Bt0.9119/unit during May-Aug 23 to Bt0.2019/unit (cut by Bt0.71/unit) during Sep-Dec 23. The much higher cut in FT figures leads to a high possibility for the market to cut 2023-24 earnings forecasts for both small power producers (SPP) and renewable operators including (BGRIM TB/BUY/Target: Bt50.00), Global Power Synergy (GPSC TB/BUY/Target: Bt70.00) and Energy Absolute (EA TB/BUY/Target: Bt81.00).
- Expect small impact to EA. Given the unexpected sharp decline in FT rate, we think that EA should be less affected than other renewable producers. EA still has subsidies in its current tariff (called "Adder"). We estimate minor impacts on our 2023 earnings forecast of 1-2% as our assumptions are too conservative, and the negative impact from the cut in FT should be offset by upside risk from the ramp-up in revenues in the EV business in 2H23.
- Sensitivity of FT cut. We ran a sensitivity analysis on earnings impact of fluctuations in gas costs and FT charges on SPPs. We conclude that BGRIM and GPSC are the most affected by fluctuations in gas costs and FT changes. Every Bt0.01/unit change in FT charges would impact their earnings by around 0.8% (impact on GULF: around 0.2%) while every Bt1.0/MMBTU change in gas prices would impact BGRIM's and GPSC's earnings by around 0.7% and 0.4% respectively (impact on GULF: about 0.1%).
- Top pick: GULF. The utilities sector's price has corrected by 6% since Aug 23, significant underperforming the SET index, due to concerns on the FT cut policy. However, we like Gulf Energy Development Pcl. (GULF TB/BUY/Target: Bt63.00) as we do not expect significant impact from the FT cut policy due to more proportion of IPP in portfolios. Additionally, we expect GULF to post a healthy core profit in 2023 on the back of: a) a full-year contribution from its Gulf Sriracha power plant, b) commercial operation of the 1,300-MW Gulf Pluak Daeng power plant which is in the pipeline, and c) potential upside from M&As.

#### YTD SHARE PRICE PERFORMANCE (%)

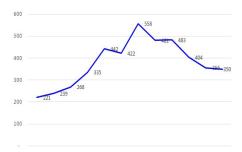


## POWER INDEX (%)



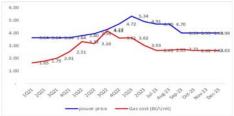
Source: UOB Kay Hian

#### SPP GAS PRICE (Bt/MMBTU)



1021 2021 3021 4021 1022 2022 3022 4022 1023 2023 3023F 4023F Source: UOB Kay Hian

## SQUEEZE MARGIN OUTLOOK (BT/UNIT)



Source: UOB Kay Hian

### FT SENSITIVITY

Company	2023 core profit (Btm)	Earnings impact if Ft charge goes down Bt0.01/unit (Btm)
BGRIM	2,474	(21)
EA	9,152	(3)
GPSC	4,993	(30)
GULF	17,144	(60)

Source: UOB Kay Hian



#### **HOTEL (MARKET WEIGHT)**

- Expect positive sentiment on the hotel sector. Utility expenses account for 4-9% to sales for hotel stocks under our coverage. Ranking the beneficiaries from biggest to smallest should be Asset World Corporation Pcl (AWC TB/HOLD/Target: 5.30), The Erawan Group Pcl (ERW TB/BUY/Target: Bt6.20), Central Plaza Hotel Pcl (CENTEL TB/HOLD/Target: Bt50.00), and Minor International Pcl (MINT TB/BUY/Target: Bt42.00). AWC stands out as the primary beneficiary due to its office business, which incurs higher utility expenses compared with its hotel business (utility expense to sales for office business: 13%, hotel business: 7%). ERW follows as the second most significant beneficiary, being a pure-play hotel operator with substantial revenue exposure in Thailand (utility expense to sales for the hotel business: 7%). CENTEL and MINT, both having food businesses with lower utility expenses than the hotels business. (utility expense to sales for food business: 4%). Therefore, CENTEL and MINT are ranked after AWC and ERW. MINT is expected to be the smallest beneficiary since it has the least exposure to Thailand. Additionally, based on our sensitivity analysis, a 10% reduction in electricity prices would result in a 7% increase in 2024 earnings for AWC, 6% for ERW, 5% for CENTEL, and 2% for MINT.
- **Top pick: ERW.** We still like ERW as: a) it is a pure play hotel operator, b) it has high domestic revenue contribution, c) its hotel revenue concentration in Bangkok benefits from the shopping trend, and d) it has a substantial market share of Chinese tourists.

#### RETAIL (OVERWEIGHT)

- Lower FT rate to increase sector's profitability. Regarding aforementioned FT rate reduction, we expect positive sentiment to retail sectors in terms of both costs reduction and better consumer purchasing power. We expect CP ALL Pcl. (CPALL TB/BUY/Target: Bt78.00) and Berri Jucker Pcl (BJC TB/BUY/Target: Bt43.00) to be the largest beneficiaries following the highest utility expenses contribution to total cost of 2.5% as there are food product categories. The smallest beneficiary will be COM7 Pcl. (COM7 TB/BUY/Target: Bt41.00) and Home Product Center Pcl (HMPRO TB/BUY/Target: Bt17.00) with only 0.4% and 1.5% of utility expenses to total cost, respectively. Based on our sensitivity analysis, if we assume that 2024's FT rate remains at Bt3.99/unit, the average FT rate will decrease by 14.6% yoy from average FT rate of Bt4.67/unit in 2023. We expect an upside of 1%/2.3%/7.8%/8.2% on COM7/HMPRO/BJC/CPALL's 2024 earnings forecast. This policy should mitigate the impact of potential minimum wage hike in 2024
- Top pick is CPALL (Target: Bt78.00). This FT rate reduction should partially mitigate the impact of potential wage hike in 2024. Also, we are still positive for the retail sector as we expect the Bt10,000 digital wallets will be allowed to be used in modern trade stores. Our top pick is CPALL as the company will be the key beneficiary from the government stimulus next year including digital wallet and lower cost of living.



Wednesday, 20 September 2023

#### **SECTOR UPDATE**

## Food - Thailand

Seeing The Light At The End Of The Tunnel For The Food Sector

We reckon that the swine prices have already bottomed out. We expect to see policies to tackle the low swine prices and reduce raw material costs from the Pig Board meeting. Also, we foresee a reduction in illegally imported pork due to the less profit room for pork importers. Although 3Q23 food sector earnings are expected to be sluggish, we expect to see a strong qoq recovery in 4Q23. Our top pick is CPF. Maintain MARKET WEIGHT.

#### WHAT'S NEW

- Pig Board meeting to tackle low swine prices. Thailand's Pig Board will hold its first meeting under the new minister of agriculture today. The Pig Board meeting will consist of the new minister of agriculture, other representatives from the ministry and the private sector. There is newsflow that there will be four agendas: a) current production situation of domestic swine, b) production cost, c) the supply and demand situation, and d) measures to improve swine prices stabilisation such as interest subsidy to improve swine farmer liquidity and subsidise live pig exports.
- Proposals from private sector. There are key proposals from the Swine Raisers Association of Thailand including: a) policies to reduce feed costs, and b) reduce swine breeders for large farms with over 1,000 breeders by 5-10%. Although we expect to see measures to tackle the low swine prices, we do not expect outright breeder reduction policy for large-scale farms, with the worst case being a volunteer basis for farmers to reduce the breeding of swine breeders. We expect illegal imported pork restriction, costs reduction, and liquidity supporting to be launched.
- The worst swine prices already passed. Given the government's restriction and less arbitrage benefits, these should disincentivise illegal pork imports to Thailand. Also, as we move toward the high season of consumption in 4Q23 and given 2024's government stimulus policy, we expect to see a recovery in domestic swine prices which will also be positive to chicken prices as a substitute meat.
- Food sector earnings to show strong qoq recovery in 4Q23. We expect the sector earnings in 3Q23 to be unexciting, pressured by the lower livestock prices in 3Q23 and expensive raw material inventory. The key drag will be from Charoen Pokphand Food (CPF). For seafood and pet food operators like Thai Union (TU), we expect to see some qoq earnings recovery in 3Q23, driven by the recovery in i-Tail Corporation (ITC) and higher ASP adjustment. However, we expect to see the significant earnings improvement in 4Q23 on a goq basis following: a) an improvement in domestic livestock prices toward the upcoming high season, b) higher benefit from cheaper raw material, and c) gross profit margin improvement. Also, we expect continuous operation improvement in TU, driven by higher ASPs with downward costs and recovery in the pet food business.

## **ACTION**

• Maintain MARKET WEIGHT. We maintain the sector weighting as a result of unexciting 3Q23 momentum. However, we are more positive on the food sector following the better 4Q23-2024 earnings outlook and we also think that the market is too negative on the sector outlook. Our top pick is CPF following the earnings recovery and that share prices have priced in most of the negative news. We also rolled over the target prices of TU and GFPT to 2024 with a target price of Bt17.40 and Bt15.50 respectively and upgrade TU to BUY. These are based on the PE valuation and peg to historical PE mean.

## **MARKET WEIGHT**

(Maintained)

#### SECTOR PICKS

	Company	Ticker	Rec	Share Price (Bt)	Price (Bt)		
	Charoen Pokphand	CPF TB	BUY	21.20	26.00		
Source: UOB Kay Hian							

## **FOREIGN OWNERSHIP**



Source: Set, UOB Kay Hian

ANALYST(S)

Kampon Akaravarinchai +662 659 8031 kampon@uobkayhian.co.th

## PEER COMPARISON

Last Target Market			Market	Net profit			PE			P/B				
Company	Ticker	Rec.	Price	Price	Cap	2022	2023F	2024F	2022	2023F	2024F	2022	2023F	2024F
			(Bt)	(Bt)	(US\$m)	(Btm)	(Btm)	(Btm)	(x)	(x)	(x)	(x)	(x)	(x)
Charoen Pokphand	CPF TB	BUY	21.20	26.00	5,172	13,970	263	12,043	13.1	692.9	15.2	0.8	0.7	0.1
GFPT	GFPT TB	BUY	10.70	15.50	380	2,044	1,211	1,347	6.6	11.1	10.0	0.8	0.7	7.1
Thai Union	TU TB	BUY	14.20	17.40	1,920	7,138	4,844	5,934	9.5	14.0	11.4	8.0	8.0	5.5
Food&Agri					7,471	23,152	6,319	19,323	11.8	483.8	13.9	0.8	0.8	1.8
Source: Bloomberg, UOB Kay Hian														

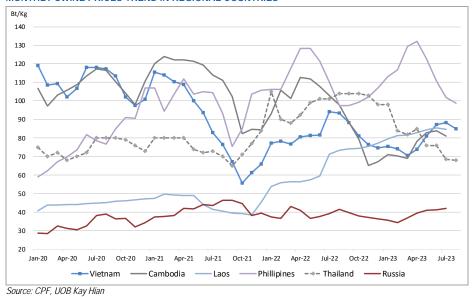


# **UOBKayHian**

#### Thailand Daily

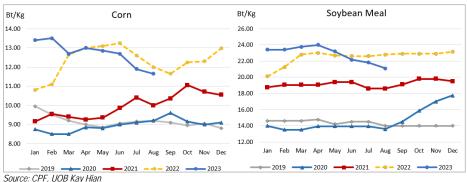
• End of arbitrage benefit for illegal pork importers. We expect the illegal imported pork situation to ease on the back of the government restriction policy and relatively lower swine prices to Europe and neighbouring countries. Based on 2H22, European and Brazil swine prices were trading at Bt50-65/kg, compared with Thailand swine prices of Bt100-105/kg which are almost double. However, the current domestic swine prices are trading at only Bt65-70/kg, slightly higher than European and Brazil of Bt50-70/kg. Therefore, we expect dramatically lower arbitrage benefit for illegal pork imported to Thailand. Also, the arbitrage gap between neighbouring countries and Thailand has been narrowing as well.

#### MONTHLY SWINE PRICES TREND IN REGIONAL COUNTRIES

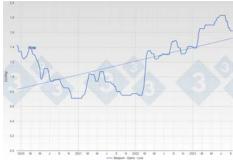


- Lower raw material costs. Currently, the raw material costs pressure is gradually easing. Both soybean meal and corn prices were down by 7.2% and 8.4% gog, respectively to Bt21.45/kg and Bt11.78/kg. Also, both slightly declined on a yoy basis. We expect soybean meal prices to be on a downward trend following higher global production and ending stocks forecasts, compared with last year according to United States Department of Agriculture (USDA). We also expect corn prices to weaken toward the domestic harvest season in 4Q23.
- Food sector is under-owned. The food sector is among one of the sectors being pressured by lower foreign ownership, which declined from 25.8% in Jan 20 to to 18.6% on 18 Sep 23. The food sector index was down by 7% and 19% since Jan 20 and the peak in Sep 21. Therefore, given the sector earnings recovery in 4Q23, we expect less negative pressure from this angle.

#### DOWNWARD RAW MATERIAL COSTS TREND



## **BELGIUM SWINE PRICES**



Source: Pig333

## SPAIN SWINE PRICES



Source: Pig333

## **NETHERLANDS SWINE PRICES**



Source: Pig333

## **BRAZIL SWINE PRICES**



Source: Pig333





#### Disclosures/Disclaimers

This report is prepared by UOB Kay Hian Securities (Thailand) Public Company Limited ("UOBKHST"), which is a licensed corporation providing Securities Brokerage, Securities Dealing, Underwriting, Derivative Agent and Financial Advisory in Thailand.

This report is provided for information only and is not an offer or a solicitation to deal in securities or to enter into any legal relations, nor an advice or a recommendation with respect to such securities.

This report is prepared for general circulation. It does not have regard to the specific investment objectives, financial situation and the particular needs of any recipient hereof. Advice should be sought from a financial adviser regarding the suitability of the investment product, taking into account the specific investment objectives, financial situation or particular needs of any person in receipt of the recommendation, before the person makes a commitment to purchase the investment product.

This report is confidential. This report may not be published, circulated, reproduced or distributed in whole or in part by any recipient of this report to any other person without the prior written consent of UOBKST. This report is not directed to or intended for distribution to or use by any person or any entity who is a citizen or resident of or located in any locality, state, country or any other jurisdiction as UOBKHST may determine in its absolute discretion, where the distribution, publication, availability or use of this report would be contrary to applicable law or would subject UOBKHST and its connected persons (as defined in Notification of the Capital Market Supervisory Board No. TorChor. 21/2551 and the Securities and Exchange Act of Thailand) to any registration, licensing or other requirements within such jurisdiction.

The information or views in the report ("Information") has been obtained or derived from sources believed by UOBKHST to be reliable. However, UOBKHST makes no representation as to the accuracy or completeness of such sources or the Information and UOBKHST accepts no liability whatsoever for any loss or damage arising from the use of or reliance on the Information. UOBKHST and its associate may have issued other reports expressing views different from the Information and all views expressed in all reports of UOBKHST and its connected persons are subject to change without notice. UOBKHST reserves the right to act upon or use the Information at any time, including before its publication herein.

Except as otherwise indicated below, (1) UOBKHST, its associates and its officers, employees and representatives may, to the extent permitted by law, transact with, perform or provide broking, underwriting, corporate finance-related or other services for or solicit business from, the subject corporation(s) referred to in this report; (2) UOBKHST, its associate and its officers, employees and representatives may also, to the extent permitted by law, transact with, perform or provide broking or other services for or solicit business from, other persons in respect of dealings in the securities referred to in this report or other investments related thereto; (3) the officers, employees and representatives of UOBKHST may also serve on the board of directors or in trustee positions with the subject corporation(s) referred to in this report. (All of the foregoing is hereafter referred to as the "Subject Business"); and (4) UOBKHST may otherwise have an interest (including a proprietary interest) in the subject corporation(s) referred to in this report.

As of the date of this report, no analyst responsible for any of the content in this report has any proprietary position or material interest in the securities of the corporation(s) which are referred to in the content they respectively author or are otherwise responsible for.

## **IMPORTANT DISCLOSURES FOR U.S. PERSONS**

This research report is prepared by UOBKHST, a company authorized, as noted above, to engage in securities and derivative activities in Thailand. UOBKHST is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution by UOBKHST (whether directly or through its US registered broker dealer affiliate named below) to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act"). All US persons that receive this document by way of distribution from or which they regard as being from UOBKHST by their acceptance thereof represent and agree that they are a major institutional investor and understand the risks involved in executing transactions in securities.

Any U.S. recipient of this research report wishing to effect any transaction to buy or sell securities or related financial instruments based on the information provided in this research report should do so only through UOB Kay Hian (U.S.) Inc ("UOBKHUS"), a registered broker-dealer in the United States. Under no circumstances should any recipient of this research report effect any transaction to buy or sell securities or related financial instruments through UOBKHST.

UOBKHUS accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to and intended to be received by a U.S. person other than a major U.S. institutional investor.

The analyst whose name appears in this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA") and may not be an associated person of UOBKHUS and, therefore, may not be subject to applicable restrictions under FINRA Rules on communications with a subject company, public appearances and trading securities held by a research analyst account.



## **Analyst Certification/Regulation AC**

Each research analyst of UOBKHST who produced this report hereby certifies that (1) the views expressed in this report accurately reflect his/her personal views about all of the subject corporation(s) and securities in this report; (2) the report was produced independently by him/her; (3) he/she does not carry out, whether for himself/herself or on behalf of UOBKHST or any other person, any of the Subject Business involving any of the subject corporation(s) or securities referred to in this report; and (4) he/she has not received and will not receive any compensation that is directly or indirectly related or linked to the recommendations or views expressed in this report or to any sales, trading, dealing or corporate finance advisory services or transaction in respect of the securities in this report. However, the compensation received by each such research analyst is based upon various factors, including UOBKHST's total revenues, a portion of which are generated from UOBKHST's business of dealing in securities.

Reports are distributed in the respective countries by the respective entities and are subject to the additional restrictions listed in the following table.

General	This report is not intended for distribution, publication to or use by any person or entity who is a citizen or resident of or located in any country or jurisdiction where the distribution, publication or use of this report would be contrary to applicable
	law or regulation.
Hong Kong	This report is distributed in Hong Kong by UOB Kay Hian (Hong Kong) Limited ("UOBKHHK"), which is regulated by the Securities and Futures Commission of Hong Kong. Neither the analyst(s) preparing this report nor his associate, has trading and financial interest and relevant relationship specified under Para. 16.4 of Code of Conduct in the listed corporation covered in this report. UOBKHHK does not have financial interests and business relationship specified under Para. 16.5 of Code of Conduct with the listed corporation covered in this report. Where the report is distributed in Hong Kong and contains research analyses or reports from a foreign research house, please note:  (i) recipients of the analyses or reports are to contact UOBKHHK (and not the relevant foreign research house) in Hong Kong in respect of any matters arising from, or in connection with, the analysis or report; and  (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Hong Kong who is not a professional investor, or institutional investor, UOBKHHK accepts legal responsibility for the contents of the analyses or reports only to the extent required by law.
Indonesia	This report is distributed in Indonesia by PT UOB Kay Hian Sekuritas, which is regulated by Financial Services Authority of Indonesia. Where the report is distributed in Indonesia and contains research analyses or reports from a foreign research house, please note recipients of the analyses or reports are to contact PT UOBKH (and not the relevant foreign research house) in Indonesia in respect of any matters arising from, or in connection with, the analysis or report.
Malaysia	Where the report is distributed in Malaysia and contains research analyses or reports from a foreign research house, the recipients of the analyses or reports are to contact UOBKHM (and not the relevant foreign research house) in Malaysia, at +603-21471988, in respect of any matters arising from, or in connection with, the analysis or report as UOBKHM is the registered person under CMSA to distribute any research analyses in Malaysia.
Singapore	This report is distributed in Singapore by UOB Kay Hian Private Limited ("UOBKH"), which is a holder of a capital markets services licence and an exempt financial adviser regulated by the Monetary Authority of Singapore. Where the report is distributed in Singapore and contains research analyses or reports from a foreign research house, please note: (i) recipients of the analyses or reports are to contact UOBKH (and not the relevant foreign research house) in Singapore in respect of any matters arising from, or in connection with, the analysis or report; and (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Singapore who is not an accredited investor, expert investor or institutional investor, UOBKH accepts legal responsibility for the contents of the analyses or reports only to the extent required by law.
Thailand	This report is distributed in Thailand by UOB Kay Hian Securities (Thailand) Public Company Limited, which is regulated by the Securities and Exchange Commission of Thailand.
United Kingdom	This report is being distributed in the UK by UOB Kay Hian (U.K.) Limited, which is an authorised person in the meaning of the Financial Services and Markets Act and is regulated by The Financial Conduct Authority. Research distributed in the UK is intended only for institutional clients.
United States of America ('U.S.')	This report cannot be distributed into the U.S. or to any U.S. person or entity except in compliance with applicable U.S. laws and regulations. It is being distributed in the U.S. by UOB Kay Hian (US) Inc, which accepts responsibility for its contents. Any U.S. person or entity receiving this report and wishing to effect transactions in any securities referred to in the report should contact UOB Kay Hian (US) Inc. directly.

Copyright 2023, UOB Kay Hian Securities (Thailand) Public Company Limited. All rights reserved.

http://www.utrade.co.th