

# Thailand Energy - Refinery

# Potential downsides from GRM cap policy

- Thai energy minister considering intervening in the refining margin in the form of a price cap policy, given the currently high GRM of over USD15/bbl for Thai refiners.
- We think this news will be negative for the share prices of refiners, given the risk for a GRM cut by up to USD5/bbl, equivalent to a THB1/litre lower ex-refinery price.
- We recommend selling into strength for refiners.

# Return of government's GRM cap policy?

According to the Bangkok Post on 10 June 2022, the Thai energy minister is considering intervening in the refining margin in the form of a price cap policy, given the currently high gross refining margin (GRM) of over USD15/bbl for Thai refiners. This may entail a THB3/litre GRM reduction aimed at lowering the retail selling prices of diesel and gasoline at oil stations. As of 10 June 2022, the retail selling price of biodiesel B7 is THB33.94/litre, comprising THB38.78/litre for the ex-refinery price and a THB9.92/litre subsidy from the government's oil fund to maintain the retail price at a low level. Meanwhile, the retail selling price of gasoline E10 is THB44.55/litre, comprising THB32.86/litre for the ex-refinery price and a THB0.09/litre oil fund tax. As of 5 June 2022, the oil fund is in a deficit of THB86b, with THB50b from the oil subsidy and THB35.9b from the LPG subsidy.

# **GRM** cap still unlikely

Despite no precedent case existing for the government's intervention in the free-market Thai refinery industry, we think this news will be negative for the share prices of refiners, given the risk of a GRM cut by up to USD5/bbl, equivalent to a THB1/litre lower ex-refinery price. At the current industry GRM at USD20/bbl, we estimate Thai refiners' average earnings to be USD10/bbl net of operating expenses of USD4/bbl, interest expenses of USD1/bbl, and a fuel loss of USD5/bbl. Every USD1/bbl GRM converts to THB0.2/litre. We expect the potential impact on Thai refiners' earnings in 2H22 would range from 30-50%, from the lowest to the highest impacts for PTTGC, IRPC, BCP, TOP, ESSO, and SPRC.

# GRM cap may apply only to diesel, if any

If the GRM cuts apply only to diesel, we estimate that the impact from a USD5/bbl GRM cut would range from 20-40%, considering that diesel is the major fuel that the government has grave concerns over in terms of inflation and cost of living, in our view. Based on the information from the Energy Policy Planning Office (EPPO) on 6 June 2022, Thailand's retail prices of diesel and gasoline remain relatively low, ranked as the 3rd lowest among ASEAN countries after the two oil exporters Malaysia and Brunei, thanks to government's subsidies and tax cuts. Yet, the Thai government's attempt to keep the oil retail prices low to curb the country's inflation could jeopardise the country's long-term competitiveness.

# Sell into strength in short term

We recommend selling into strength for refiners given the recent price rallies, limited upsides to our target prices, and risk of GRM cuts. However, we remain skeptical as to the likelihood of a GRM cap given 1) Thailand's historical record of not intervening in GRM; 2) two foreign-owned refiners, SPRC and ESSO, are unlikely to comply with the government's policy; and 3) market GRMs for refiners remain significantly strong.

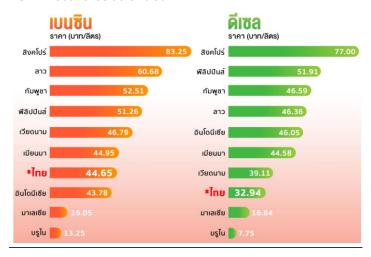


Suwat Sinsadok, CFA, FRM, ERP suwat.sin@fssia.com +66 2611 3558

Siriluck Pinthusoonthorn

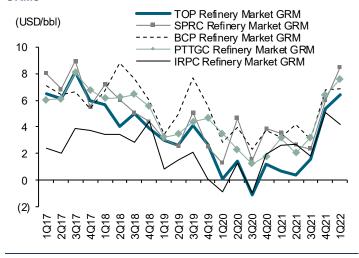
siriluck.pin@fssia.com +66 2611 3562

Exhibit 1: Retail prices of gasoline (left) and diesel (right) in ASEAN countries as of 6 Jun-22



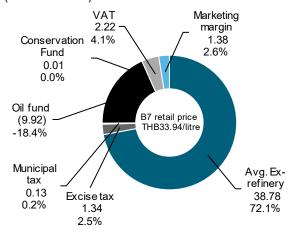
Source: Energy Policy and Planning Office (EPPO)

Exhibit 3: Thailand refinery companies' refinery market GRMs



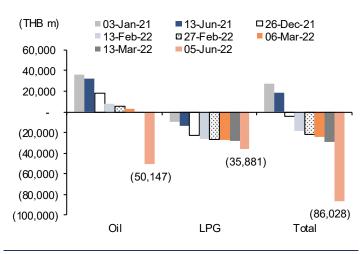
Source: Company data

Exhibit 5: Biodiesel B7 retail price structure as of 10 Jun-22 (THB33.94/litre)



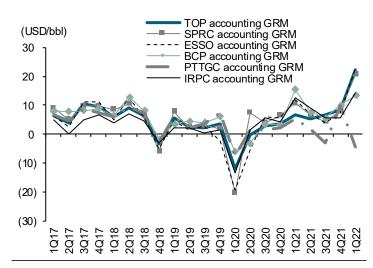
Source: EPPO

Exhibit 2: Oil fund status as of 5 Jun-22



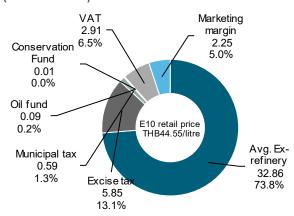
Sources: Oil Fund Fuel Office

Exhibit 4: Thailand refinery companies' accounting GRMs



Source: Company data

Exhibit 6: Gasoline E10 retail price structure as of 10 Jun-22 (THB44.55/litre)



Source: EPPO

Exhibit 7: Fuel cost comparison per km (EV vs gasoline and diesel) in Thailand (fuel prices as of 10 Jun-22)

Fuel	Gasoline		Diesel -		EV	Savings vs gasoline	Savings vs diesel	
Retail price	44.55	(THB/litre)	33.94	(THB/litre)	6	(THB/KWh)	(%)	(%)
Litres per km	Litres per km	THB per km	Average consumption	THB per km	Average consumption	THB per km		
Average Consumption	5 litres per 100 km	2.2	5 litres per 100 km	1.7	15KWh per 100 km	0.9	59.4	46.5
	10 litres per 100 km	4.4	10 litres per 100 km	3.4	20KWh per 100 km	1.2	73.0	64.5
	15 litres per 100 km	6.7	15 litres per 100 km	6.9	25KWh per 100 km	1.5	77.5	78.2
	20 litres per 100 km	8.9	20 litres per 100 km	6.8	30KWh per 100 km	1.8	79.8	73.5

Sources: Energy Information Administration; EPPO; FSSIA estimates

# Corporate Governance report of Thai listed companies 2020

EXCELLE	NT LEVEL	·									
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN	
AAV	ADVANC AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS	
BEC	BEM		BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG	
		BGRIM									
CENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN	
COTTO	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC	
DV8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT	
FSMART	GBX	GC	GCAP	GEL	GFPT	GGC	GPSC	GRAMMY	GUNKUL	HANA	
HARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN	JSP	
JWD	K	KBANK	KCE	KKP	KSL	KTB	KTC	LANNA	LH	LHFG	
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	METCO	MFEC	MINT	
MONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD	
NYT	OISHI	ORI	ОТО	PAP	PCSGH	PDJ	PG	PHOL	PLANB	PLANET	
PLAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL	PTG	PTT	
PTTEP	PTTGC	PYLON	Q-CON	QH	QTC	RATCH	RS	S	S&J	SAAM	
SABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC	
SEAFCO	SEAOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC	
SONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA	
					TCAP						
SVI	SYMC	SYNTEC	TACC	TASCO		TFMAMA	THANA	THANI	THCOM	THG	
THIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT	
TNL	TOA	TOP	TPBI	TQM	TRC	TSC	TSR	TSTE	TSTH	TTA	
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV	
VGI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE			
	OD LEVEL										
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT	
ALLA	AMANAH	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN	
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	В	BA	BAM	BBL	
BFIT	BGC	BJC	BJCHI	BROOK	BTW	CBG	CEN	CGH	CHARAN	CHAYO	
CHG	CHOTI	CHOW	CI	CIG	CMC	COLOR	COM7	CPL	CRC	CRD	
CSC	CSP	CWT	DCC	DCON	DDD	DOD	DOHOME	EASON	EE	ERW	
ESTAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL	
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM	
IMH	INET	INSURE	IRC	IRCP	IT .	ITD	ITEL	J	JAS	JCK	
JCKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM	
L&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	M	MACO		
										MAJOR	
MBAX	MEGA	META	MFC	MGT	MILL	MITSIB	MK	MODERN	MTI	MVP	
NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG	
PDI	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT	
QLT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE	
SAWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE	
SKR	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC	
SSF	STANLY	STI	STPI	SUC	SUN	SYNEX	T	TAE	TAKUNI	TBSP	
TCC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC	
TMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY	
TPS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP	
UPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIIK	WP	XO	
YUASA	ZEN	ZIGA	ZMICO	50			5	•••••			
		±::									
GOOD LE	VEL										
7UP	Α	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU	
B52	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR	
BROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	CMO	CMR	
CPT	CPW	CRANE	CSR	D	EKH	EP	ESSO	FMT	GIFT	GREEN	
GSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET	
		KUMWEL									
KCM	KKC		KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS	
MDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA	
OCEAN	PAF	PF	PK	PLE	PMTA	POST	PPM	PRAKIT	PRECHA	PRIME	
PROUD	PTL	RBF	RCI	RJH	ROJNA	RP	RPH	RSP	SF	SFLEX	
SGP	SISB	SKN	SLP	SMART	SOLAR	SPG	SQ	SSP	STARK	STC	
SUPER	SVOA	TC	TCCC	THMUI	TIW	TNH	TOPP	TPCH	TPIPP	TPLAS	
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH			
		Description			Score Range						
		Excellent				90-100					
		Very Good				80-89					
		Good						70-7	79		

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.

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

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.

\* 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; \*\* delisted

# **Anti-corruption Progress Indicator 2020**

CERTIFIED										
2S	ADVANC	Al	AIE	AIRA	AKP	AMA	AMANAH	AP	AQUA	ARROW
ASK	ASP	AYUD	В	BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG
BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	CHOTI	CHOW	CIG	CIMBT	СМ	CMC
COL	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DELTA	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FPI	FPT	FSS
FTE	GBX	GC	GCAP	GEL	GFPT	GGC	GJS	GPSC	GSTEEL	GUNKUI
HANA	HARN	HMPRO	HTC	ICC	ICHI	IFS	INET	INSURE	INTUCH	IRPC
ITEL	IVL	K	KASET	KBANK	KBS	KCAR	KCE	KGI	KKP	KSL
KTB	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	M	MAKRO
MALEE	MBAX	MBK	MBKET	MC	MCOT	MFC	MFEC	MINT	MONO	MOONG
MPG	MSC	MTC	MTI	NBC	NEP	NINE	NKI	NMG	NNCL	NSI
NWR	occ	OCEAN	OGC	ORI	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPPM
PPS	PREB	PRG	PRINC	PRM	PSH	PSL	PSTC	PT	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QLT	QTC	RATCH	RML	RWI	S & J
SABINA	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SEAOIL	SE-ED	SELIC
SENA	SGP	SIRI	SITHAI	SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK
SPC	SPI	SPRC	SRICHA	SSF	SSSC	SST	STA	SUSCO	SVI	SYNTE
TAE	TAKUNI	TASCO	TBSP	TCAP	TCMC	TFG	TFI	TFMAMA	THANI	THCOM
THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT	TTB	TMD	TMILL	TMT
TNITY	TNL	TNP	TNR	TOG	TOP	TPA	TPCORP	TPP	TRU	TSC
TSTH	TTCL	TU	TVD	TVI	TVO	TWPC	U	UBIS	UEC	UKEM
UOBKH	UWC	VGI	VIH	VNT	WACOAL	WHA	WHAUP	WICE	WIIK	XO
ZEN	TRUE									
DECLARE	D									
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
ВМ	BROCK	BUI	СНО	CI	сотто	DDD	EA	EFORL	EP	ERW
ESTAR	ETE	EVER	FSMART	GPI	ILINK	IRC	J	JKN	JMART	JMT
JSP	JTS	KWG	LDC	MAJOR	META	NCL	NOBLE	NOK	PK	PLE
ROJNA	SAAM	SAPPE	SCI	SE	SHANG	SINGER	SKR	SPALI	SSP	STANLY
SUPER	SYNEX	THAI	TKS	TOPP	TRITN	TTA	UPF	UV	WIN	ZIGA

#### Level

Certified

This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.

Declared This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

#### 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 June 24, 2019) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Source: The Securities and Exchange Commission, Thailand; \* FSSIA's compilation

#### **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
Thai Oil	TOP TB	THB 60.75	BUY	Downside risks to our EV/EBITDA-based TP are a sharp fall in oil price and weak demand for refined oil products.
Star Petroleum Refining	SPRC TB	THB 13.30	BUY	TP is based on EV/EBITDA. Downside risks are a sharp rise in oil price and weak demand for refined oil products.
Esso Thailand	ESSO TB	THB 12.00	BUY	The downside risks to our SoTP-based TP on ESSO include 1) lower-than-expected demand for petroleum products; 2) a higher crude premium; and 3) unplanned shutdowns of its refinery and petrochemical plants.
Bangchak Corp	ВСР ТВ	THB 35.00	BUY	The downside risks to our SoTP-based TP include: 1) lower-than-expected demand for petroleum products; 2) higher crude premiums; and 3) unplanned shutdowns of the company's refinery plants.
PTT Global Chemical	PTTGC TB	THB 48.75	REDUCE	The key upside risks to our EV/EBITDA-based TP are a stronger-than-expected HDPE price and HDPE-naphtha margin.
IRPC PCL	IRPC TB	THB 3.60	REDUCE	Key risks to our bearish view and EV/EBITDA-based target price are rising margins of PP-naphtha, SM and ABS-benzene, and a higher market GRM.

# 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 09-Jun-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.