

INDORAMA VENTURES

THAILAND / PETROCHEM & CHEMICALS

IVL TB

BUY

จากผู้ผลิตสู่ผู้คิดค้น

- เราเห็นว่าเทคโนโลยี MTBE 'Single-step' Reaction ของ IVL อาจช่วยให้ผู้ผลิตได้โครงสร้างต้นทุนที่ลดลง 20-40%
- ด้วยอัตรากำไรของ MTBE ที่สูงกว่าค่าเฉลี่ยในอดีตถึง 4x การเติบโตของกำไรสุทธิของ IVL ใน 2Q22-4Q22 อาจสูงกว่าคาด
- คงแนะนำซื้อที่ราคาเป้าหมาย 70 บาท

TARGET PRICE	THB70.00
CLOSE	THB47.75
UP/DOWNSIDE	+46.6%
TP vs CONSENSUS	+14.9%

KEY STOCK DATA

YE Dec (THB m)	2021	2022E	2023E	2024E
Revenue	468,108	383,886	374,825	374,369
Net profit	22,247	28,202	30,554	32,488
EPS (THB)	3.96	5.02	5.44	5.79
vs Consensus (%)	-	(17.5)	(6.0)	(2.2)
EBITDA	58,084	59,195	62,760	64,692
Core net profit	21,886	23,553	25,905	27,839
Core EPS (THB)	3.90	4.20	4.61	4.96
EPS growth (%)	204.5	7.6	10.0	7.5
Core P/E (x)	12.2	11.4	10.3	9.6
Dividend yield (%)	2.5	5.4	5.8	6.1
EV/EBITDA (x)	8.1	7.3	6.4	5.7
Price/book (x)	1.7	1.5	1.3	1.2
Net debt/Equity (%)	111.0	86.5	63.6	44.3
ROE (%)	15.3	13.7	13.3	12.9

ก้าวเข้าสู่ตลาด Commercial ที่มีนวัตกรรม

เมื่อวันที่ 28 มิ.ย. 22 เว็บไซต์ Kaohoon ของไทยรายงานว่า IVL ได้เซ็นสัญญาอนุญาตให้ใช้สิทธิ (Licensing agreement) ในประเทศจีนกับ Shandon Binhua New Material Co Ltd (SBN) เพื่อออกแบบ สร้าง เป็นเจ้าของ และดำเนินงานโรงผลิต Methyl Tertiary Butyl Ether (MTBE) แห่งแรกของโลกที่ใช้เทคโนโลยี 'Single-step' Reaction โดย IVL ได้เทคโนโลยีดังกล่าวมาจากพอร์ตสินทรัพย์ของ Huntsman ซึ่งใช้ Integrated oxide and derivatives (IOD) chain เพื่อผลิต Propylene oxide (PO) และ MTBE ในฐานะที่เป็น Co-product นวัตกรรมอันเป็นกรรมสิทธิ์ของ IVL ใช้ Propane (C3) และ Butane (C4) เพื่อผลิต PO, Tertiary Butyl Alcohol (TBA), และ MTBE

อะไรทำให้เทคโนโลยีแบบ Single-step MTBE ของ IVL ดีกว่า?

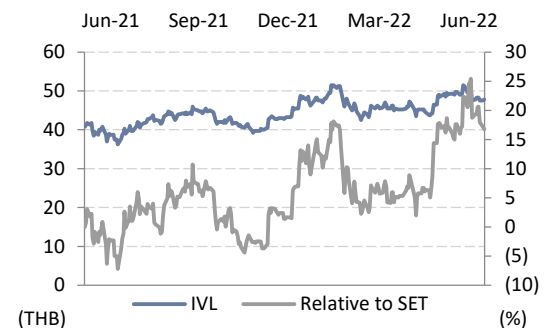
เทคโนโลยีอื่นผลิต MTBE โดยใช้ TBA ซึ่งเป็น Co-product จากกระบวนการผลิต PO ใน Multi-step reaction process กับ Methanol อย่างไรก็ตามเราคาดว่า Single-step process ของ IVL จะทำให้ผู้ผลิตมีโครงสร้างต้นทุนที่ต่ำกว่า PO-MTBE process อื่น ๆ 20-40% Kaohoon รายงานว่าโรงงานของ SBN จะผลิต Propylene 0.6mtpa, Butane 0.8mtpa, Synthetic Ammonia 0.15mtpa, PO 0.24mtpa, และ MTBE 0.742mtpa ซึ่งจะทำให้บริษัทดังกล่าวมีกำลังการผลิตที่ใกล้เคียงกันกับโรงงาน IOD ของ IVL ใน Port Neches, Texas ในสหรัฐฯ

MTBE: Single-step process ของ IVL มีโครงสร้างต้นทุนที่ต่ำที่สุด

จากข้อมูลของ Energy Information Administration มี 3 วิธีในการผลิต MTBE 1) เป็นผลพลอยได้จาก Refinery Catalytic Cracking and Petrochemical Ethylene Plants; 2) ผลิตในโรงงานที่ออกแบบเพื่อใช้วิธี Isomerise ในการเปลี่ยน Butane เป็น Isobutylene ซึ่งจากนั้นจะต้องผ่านกระบวนการแยก Hydrogen ให้กลายเป็น Isobutylene; และ 3) จาก TBA ในฐานะที่เป็นผลพลอยได้จากกระบวนการผลิต PO ทั้ง 3 วิธีต้องใช้ Methanol เป็นส่วนหนึ่งของ Reaction Process โรงงาน MTBE ของ IVL ในสหรัฐฯ เป็นหนึ่งในสองในประเทศดังกล่าวที่ใช้กระบวนการผลิตจาก TBA แต่โรงงานใหม่ของ IVL จะเป็นแห่งแรกในโลกที่ผลิต MTBE โดยใช้ Single-step process

อัตรากำไรของ MTBE ที่ปรับตัวขึ้นจะช่วยผลักดัน EBITDA ในธุรกิจ IOD ของ IVL ให้สูงขึ้นในช่วง 2H22

เราคงแนะนำซื้อที่ราคาเป้าหมาย 70 บาท (9.4x ของค่า 2022E EV/EBITDA) จากอัตรากำไรของน้ำมันเบนซินที่ปรับตัวขึ้นในตลาดโลกในปัจจุบัน อัตรากำไรของ MTBE ได้ปรับตัวขึ้นอย่างเห็นได้ชัดเป็นกว่า USD941/t ในเดือน พ.ค. 22 เพิ่มขึ้น 2x m-m และสูงกว่าค่าเฉลี่ยในอดีตที่ USD250/t ถึงกว่า 4x ด้วยกำลังการผลิต MTBE ที่ 0.7mtpa เราคิดว่ากำไรสุทธิของ IVL ใน 2Q22-4Q22 น่าจะสูงกว่าที่ตลาดคาด



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(3.0)	4.4	16.5
Relative to country (%)	(0.4)	10.6	16.2
Mkt cap (USD m)	7,623		
3m avg. daily turnover (USD m)	22.5		
Free float (%)	33		
Major shareholder	Indorama Resources (63%)		
12m high/low (THB)	52.75/36.00		
Issued shares (m)	5,614.55		

Sources: Bloomberg consensus; FSSIA estimates



Suwat Sinsadok, CFA, FRM, ERP

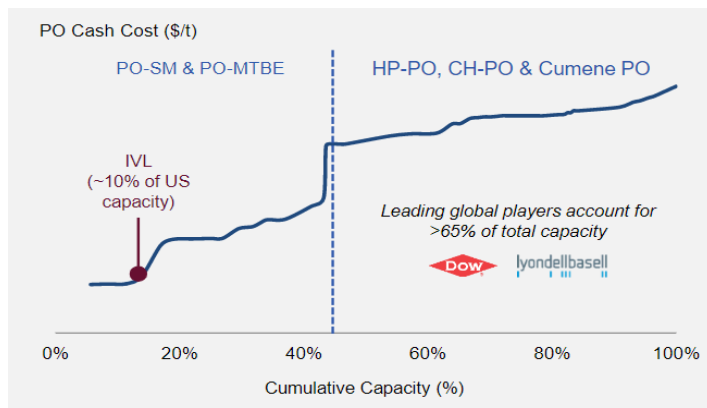
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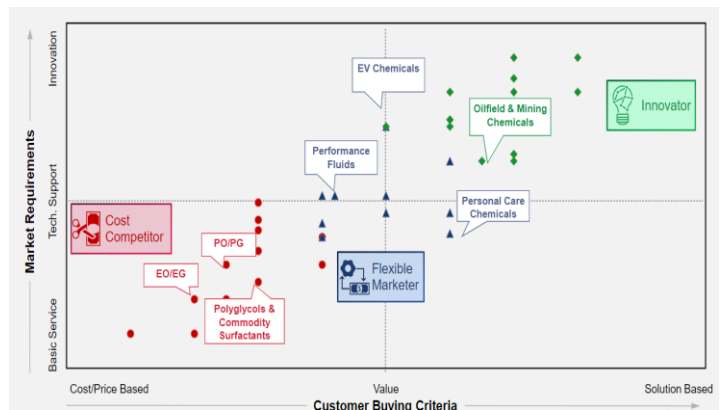
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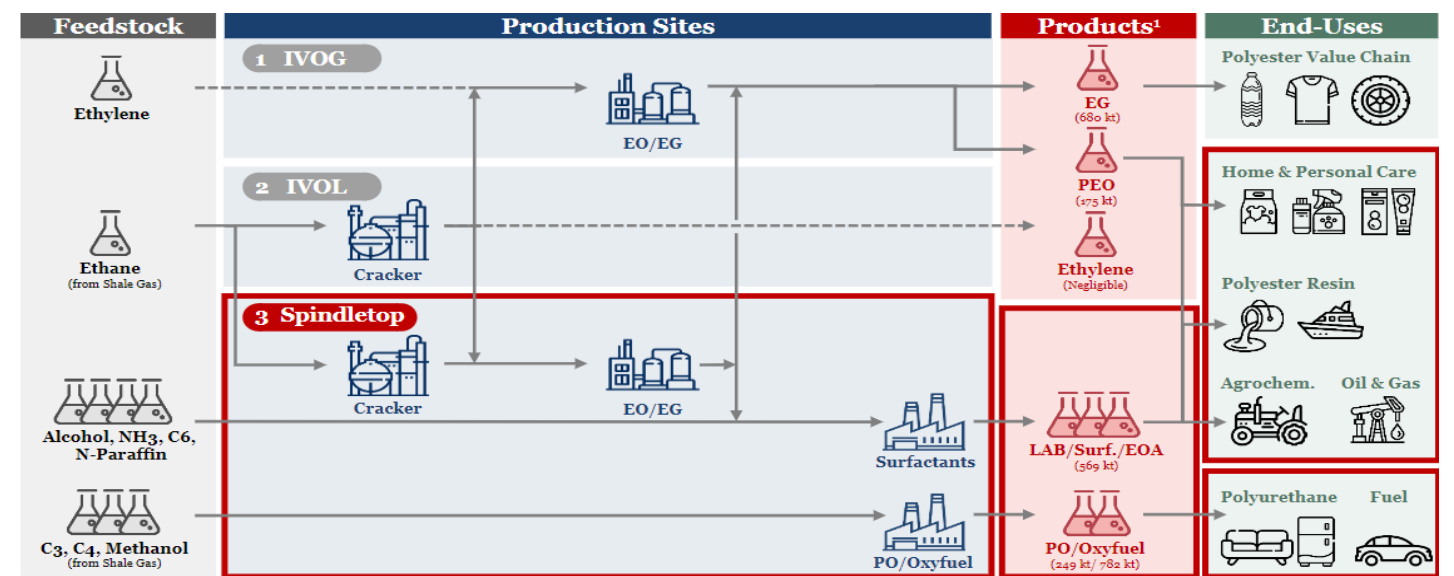
บทวิเคราะห์ฉบับนี้แปลมาจากบทวิเคราะห์ของ FSSIA ฉบับวันที่ 29 มิถุนายน 2022

Exhibit 1: PO-MTBE technology could make IVL's IOD one of the most cost-competitive PO producers in the world

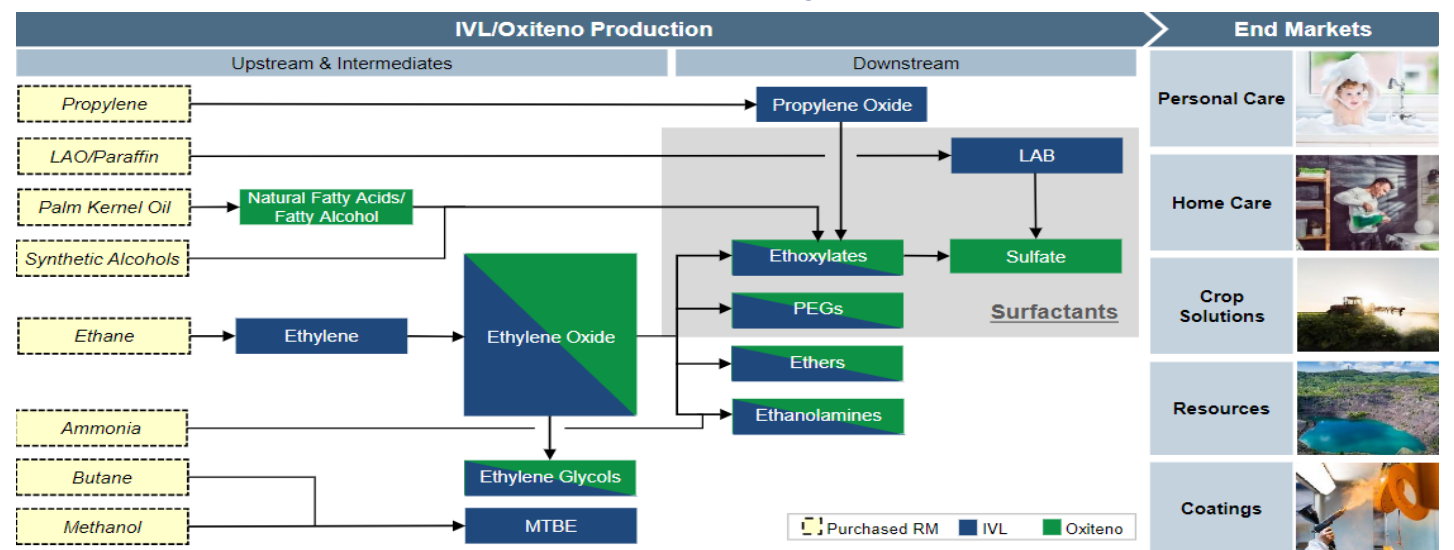
Source: IVL's Capital Market Day presentation, dated 27 Jan-21

Exhibit 2: Future growth platform offers multiple downstream opportunities

Source: IVL's Capital Market Day presentation, dated 27 Jan-21

Exhibit 3: IVL's IOD post the acquisition of Huntsman's IOD asset in Jan-20

Source: IVL

Exhibit 4: IVL's IOD post the acquisition of Oxiteno's IOD asset in Aug-21

Source: IVL

Financial Statements

Indorama Ventures

Profit and Loss (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Revenue	331,513	468,108	383,886	374,825	374,369
Cost of goods sold	(266,558)	(363,002)	(301,658)	(283,953)	(281,599)
Gross profit	64,955	105,107	82,229	90,872	92,770
Other operating income	-	-	-	-	-
Operating costs	(32,724)	(47,022)	(23,033)	(28,112)	(28,078)
Operating EBITDA	32,231	58,084	59,195	62,760	64,692
Depreciation	(20,487)	(20,487)	(20,521)	(21,149)	(21,778)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	11,744	37,597	38,675	41,611	42,914
Net financing costs	(7,362)	(7,202)	(7,149)	(7,155)	(6,066)
Associates	143	160	653	633	633
Recurring non-operating income	1,949	160	653	633	633
Non-recurring items	(758)	361	4,649	4,649	4,649
Profit before tax	5,573	30,916	36,827	39,738	42,130
Tax	1,243	(6,703)	(7,953)	(8,511)	(8,970)
Profit after tax	6,816	24,213	28,874	31,226	33,160
Minority interests	(386)	(1,966)	(672)	(672)	(672)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	6,430	22,247	28,202	30,554	32,488
Non-recurring items & goodwill (net)	758	(361)	(4,649)	(4,649)	(4,649)
Recurring net profit	7,188	21,886	23,553	25,905	27,839
Per share (THB)					
Recurring EPS *	1.28	3.90	4.20	4.61	4.96
Reported EPS	1.15	3.96	5.02	5.44	5.79
DPS	0.10	1.20	2.59	2.78	2.93
Diluted shares (used to calculate per share data)	5,615	5,615	5,615	5,615	5,615
Growth					
Revenue (%)	(6.0)	41.2	(18.0)	(2.4)	(0.1)
Operating EBITDA (%)	(5.2)	80.2	1.9	6.0	3.1
Operating EBIT (%)	(30.8)	220.1	2.9	7.6	3.1
Recurring EPS (%)	(34.7)	204.5	7.6	10.0	7.5
Reported EPS (%)	22.4	246.0	26.8	8.3	6.3
Operating performance					
Gross margin inc. depreciation (%)	13.4	18.1	16.1	18.6	19.0
Gross margin of key business (%)	13.2	18.2	17.3	19.8	20.2
Operating EBITDA margin (%)	9.7	12.4	15.4	16.7	17.3
Operating EBIT margin (%)	3.5	8.0	10.1	11.1	11.5
Net margin (%)	2.2	4.7	6.1	6.9	7.4
Effective tax rate (%)	-79.8	19.2	19.2	19.2	19.2
Dividend payout on recurring profit (%)	7.8	30.8	61.8	60.2	59.1
Interest cover (X)	1.9	5.2	5.5	5.9	7.2
Inventory days	79.5	71.9	98.0	92.7	92.3
Debtor days	37.3	33.8	46.0	42.0	41.5
Creditor days	86.7	82.2	108.0	102.1	101.7
Operating ROIC (%)	4.9	0.9	0.9	1.0	1.0
ROIC (%)	4.6	0.7	0.7	0.8	0.9
ROE (%)	5.6	15.3	13.7	13.3	12.9
ROA (%)	3.7	4.9	4.7	5.2	5.4

* Pre exceptional, pre-goodwill and fully diluted

Revenue by Division (THB m)	2020	2021	2022E	2023E	2024E
PET	153,889	258,701	176,399	162,510	162,054
Feedstock	100,905	117,776	117,110	121,937	121,937
Fibres	90,601	110,868	109,613	109,613	109,613
Eliminations and unallocated	(13,882)	(19,236)	(19,236)	(19,236)	(19,236)

Sources: Indorama Ventures; FSSIA estimates

Financial Statements

Indorama Ventures

Cash Flow (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Recurring net profit	7,188	21,886	23,553	25,905	27,839
Depreciation	20,487	20,487	20,521	21,149	21,778
Associates & minorities	-	-	-	-	-
Other non-cash items	(1,002)	(1,001)	(1,001)	(1,001)	(1,001)
Change in working capital	19,603	19,639	16,475	21,732	20,909
Cash flow from operations	46,276	61,011	59,548	67,786	69,524
Capex - maintenance	-	-	-	-	-
Capex - new investment	(16,231)	(16,229)	(13,200)	(13,200)	(13,200)
Net acquisitions & disposals	0	0	0	0	0
Other investments (net)	(9,059)	(9,053)	(9,053)	(9,053)	(9,053)
Cash flow from investing	(25,290)	(25,282)	(22,253)	(22,253)	(22,253)
Dividends paid	(3,088)	(5,474)	(6,737)	(14,559)	(15,601)
Equity finance	0	0	0	0	0
Debt finance	51,695	12,380	5,893	5,893	5,893
Other financing cash flows	(61,091)	(45,368)	(7,368)	(7,348)	(7,348)
Cash flow from financing	(12,484)	(38,462)	(8,213)	(16,014)	(17,056)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	8,502	(2,733)	29,082	29,518	30,215
Free cash flow to firm (FCFF)	28,659.55	42,849.85	44,539.37	52,776.94	54,515.67
Free cash flow to equity (FCFE)	11,589.60	2,741.28	35,819.46	44,077.03	45,815.76

Per share (THB)

FCFF per share	5.10	7.63	7.93	9.40	9.71
FCFE per share	2.06	0.49	6.38	7.85	8.16
Recurring cash flow per share	4.75	7.37	7.67	8.20	8.66

Balance Sheet (THB m) Year Ending Dec	2020	2021	2022E	2023E	2024E
Tangible fixed assets (gross)	376,464	424,337	437,537	450,737	463,937
Less: Accumulated depreciation	(112,173)	(132,660)	(153,181)	(174,330)	(196,108)
Tangible fixed assets (net)	264,291	291,677	284,356	276,407	267,829
Intangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	0	0	0	0	0
Cash & equivalents	18,949	16,215	45,297	74,815	105,030
A/C receivable	33,422	53,172	43,605	42,576	42,524
Inventories	53,938	88,979	72,970	71,247	71,161
Other current assets	13,526	18,493	18,493	18,493	18,493
Current assets	119,835	176,859	180,365	207,132	237,208
Other assets	69,046	73,292	46,416	46,416	46,416
Total assets	453,172	541,828	511,138	529,955	551,453
Common equity	126,655	158,769	184,882	205,527	227,062
Minorities etc.	8,953	12,235	986	1,056	1,114
Total shareholders' equity	135,608	171,003	185,868	206,583	228,176
Long term debt	164,073	169,893	169,893	169,893	169,893
Other long-term liabilities	39,552	43,034	11,897	11,897	11,897
Long-term liabilities	203,625	212,927	181,790	181,790	181,790
A/C payable	65,366	98,049	80,408	78,510	78,414
Short term debt	29,645	36,206	36,206	36,206	36,206
Other current liabilities	18,927	23,643	26,866	26,866	26,866
Current liabilities	113,938	157,898	143,480	141,582	141,486
Total liabilities and shareholders' equity	453,172	541,828	511,137	529,955	551,453
Net working capital	16,593	38,952	27,795	26,941	26,898
Invested capital	349,930	403,922	358,567	349,764	341,143

* Includes convertibles and preferred stock which is being treated as debt

Per share (THB)

Book value per share	22.56	28.28	32.93	36.61	40.44
Tangible book value per share	22.56	28.28	32.93	36.61	40.44

Financial strength

Net debt/equity (%)	128.9	111.0	86.5	63.6	44.3
Net debt/total assets (%)	38.6	35.0	31.5	24.8	18.3
Current ratio (x)	1.1	1.1	1.3	1.5	1.7
CF interest cover (x)	4.8	3.6	7.9	9.0	10.7

Valuation	2020	2021	2022E	2023E	2024E
Recurring P/E (x) *	37.3	12.2	11.4	10.3	9.6
Recurring P/E @ target price (x) *	54.7	18.0	16.7	15.2	14.1
Reported P/E (x)	41.7	12.1	9.5	8.8	8.3
Dividend yield (%)	0.2	2.5	5.4	5.8	6.1
Price/book (x)	2.1	1.7	1.5	1.3	1.2
Price/tangible book (x)	2.1	1.7	1.5	1.3	1.2
EV/EBITDA (x) **	14.0	8.1	7.3	6.4	5.7
EV/EBITDA @ target price (x) **	17.9	10.2	9.4	8.4	7.7
EV/invested capital (x)	1.3	1.2	1.2	1.1	1.1

* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income

Sources: Indorama Ventures; FSSIA estimates

Corporate Governance report of Thai listed companies 2021

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

Disclaimer:

The disclosure of the survey results of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey results may be changed after that date. FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

* 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

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

Anti-corruption Progress Indicator

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

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

Disclaimer:

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, FSS International Investment Advisory Company Limited does not confirm, verify, or certify the accuracy and completeness of the assessment results.

Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of 26 October 2021) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

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

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Suwat Sinsadok, CFA, FRM, ERP FSS International Investment Advisory Securities Co., Ltd

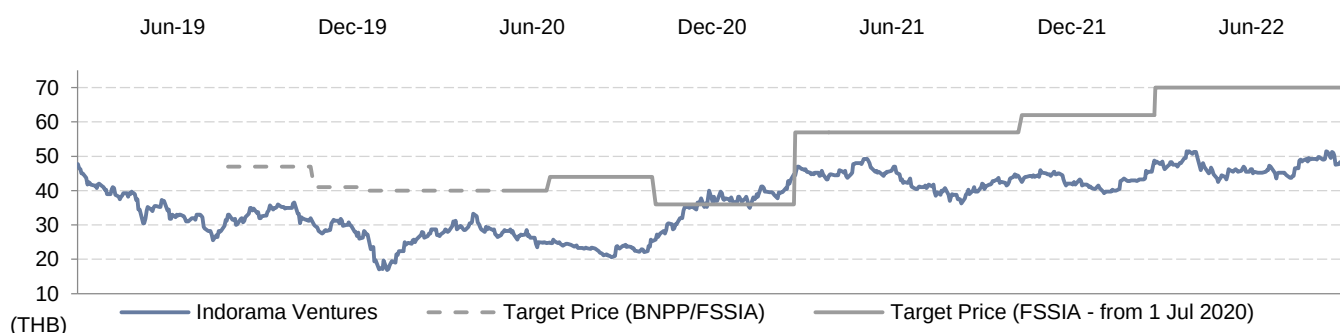
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History of change in investment rating and/or target price

Indorama Ventures (IVL TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
07-Nov-2019	BUY	47.00	07-Aug-2020	BUY	44.00	17-Sep-2021	BUY	62.00
20-Jan-2020	BUY	41.00	06-Nov-2020	BUY	36.00	12-Jan-2022	BUY	70.00
27-Feb-2020	BUY	40.00	08-Mar-2021	BUY	57.00			

Suwat Sinsadok, CFA, FRM, ERP started covering this stock from 09-Jun-2020

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Indorama Ventures	IVL TB	THB 47.75	BUY	The key downside risks to our EV/EBITDA-based TP are weaker-than-expected margins for PX-PTA and PET-PTA, lower demand for polyester, and delays in IVL's projects.

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

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All share prices are as at market close on 28-Jun-2022 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as $(\text{target price}^* - \text{current price}) / \text{current price}$.

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.