

INDORAMA VENTURES

THAILAND / PETROCHEM & CHEMICALS

IVL TB

BUY

UNCHANGED

Record high earnings incoming

- We expect IVL to post strong quarterly net profits throughout 2022, beginning with a 1Q22E NP of THB9.1b, up 69% q-q and 52% y-y.
- Core profit excluding inventory gain should rise to THB6.9b, thanks to strong core product margins and increased sales volumes.
- BUY maintained with THB70 TP.

TARGET PRICE	THB70.00
CLOSE	THB45.50
UP/DOWNSIDE	+53.8%
PRIOR TP	THB70.00
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	+18.7%

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 (%)	-	0.0	0.9	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
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	204.5	7.6	10.0	7.5
Core P/E (x)	11.7	10.8	9.9	9.2
Dividend yield (%)	2.6	5.7	6.1	6.4
EV/EBITDA (x)	7.9	7.0	6.2	5.5
Price/book (x)	1.6	1.4	1.2	1.1
Net debt/Equity (%)	111.0	86.5	63.6	44.3
ROE (%)	15.3	13.7	13.3	12.9

Roaring start bodes well for a record high net profit in 2022

We remain confident that 2022 will be a strong year for IVL, projecting a record high reported net profit of THB28b and a core net profit of THB23.6b. We think the strong net profit will begin in 1Q22 and likely rise gradually throughout 2022, backed by higher sales volumes and the sustained high margins of its combined PET products (PET and PTA), integrated oxides and derivatives (IOD), and fibre, thanks to IVL's product demand resiliency as essential raw materials for packaging and clothes, personal care consumables, and the industrial and automotive industries.

Expect strong 1Q22 net profit of THB9.1b

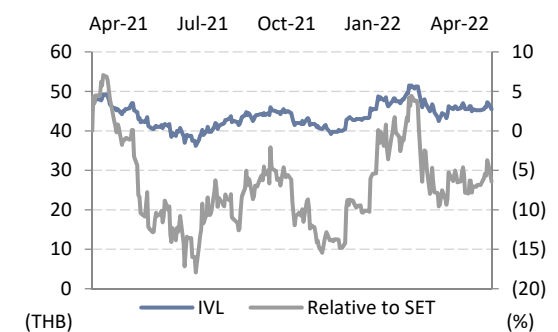
We project IVL to post a strong 1Q22 net profit of THB9.1b, up 69% q-q and 52% y-y. Excluding an inventory gain of THB2.2b, we expect its core net profit to rise to THB6.9b, backed by: 1) combined PET EBITDA jumping to USD370m in 1Q22, driven by higher margins for integrated PET and PTA under contract; 2) a strong IOD EBITDA at USD124m, with EBITDA generated from the ethane cracker timely offsetting the lower q-q margin of its downstream IOD products; 3) strong EBITDA from fibre at USD80m with limited impacts from the Russia-Ukraine war and China's shutdown; 4) a USD80m before-tax inventory gain; 5) higher product margins in 2022 which should more than offset its USD30-40/t higher energy cost; and 6) a 3% q-q higher sales volume to 3.83mt.

Margins rising from strength to strength

In 1Q22, the margins of IVL's core products all remained strong, with the Asian integrated PET-PTA margin at USD300/t and the Western integrated PET-PTA margin at over USD800/t. The monoethylene glycol (MEG) margin in the US stayed strong at USD470/t in 1Q22, thanks to the strong demand and tighter supply. The MTBE margin shot up markedly to over USD250/t in 1Q22 and hit USD450/t in Mar-22, driven by the higher demand for gasoline. We think the MTBE margin will continue to stay above USD400/t in 2Q22 given the projected higher demand for the summer driving season.

Top pick in the Thai petrochemical sector

We maintain BUY and our target price of THB70, based on 9.4x 2022E EV/EBITDA. At the closing share price of THB45.50 on 25 Apr-22, IVL is trading at a forward P/E below 12x in 2022-24E, which we think is unjustified against IVL's solid and highly visible earnings growth in 2022.



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	0.0	(4.2)	4.0
Relative to country (%)	0.1	(6.3)	(3.6)
Mkt cap (USD m)			7,503
3m avg. daily turnover (USD m)			29.8
Free float (%)			33
Major shareholder		Indorama Resources (63%)	
12m high/low (THB)		52.00/36.00	
Issued shares (m)		5,614.55	

Sources: Bloomberg consensus; FSSIA estimates



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Investment thesis

We believe IVL is now at an inflection point for its third growth phase, transforming from a high value-added (HVA)-driven, polyethylene terephthalate (PET)/purified terephthalic acid (PTA)-focused product company into a packaging, olefin-integrated company from 2019-23.

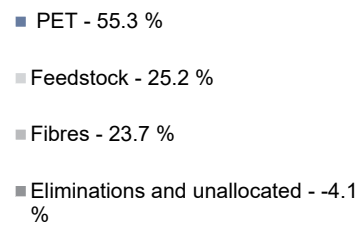
Unlike its last two growth cycles when IVL funded its capacity growth through debt and capital increases using warrants (IVL-W1 and IVL-W2), key growth strategies in IVL's third growth cycle could be driven by: 1) M&A in the global packaging business, non-PET packaging in frontier markets and specialty chemicals for polyester chain products; and 2) backward integration into the olefins business, including an ethane cracker, propylene production, and downstream polyethylene (PE) and polypropylene (PP), as these are key feedstock materials for IVL's growing packaging segment. The integration focus should only be on self-sufficient, non-merchant applications.

Company profile

Indorama Ventures (IVL) was incorporated in 2003 to start up a petrochemical business in Thailand. Initially focusing on wool fibre, the company expanded into the polyester chain, including polyester fibre, PET, and PTA.

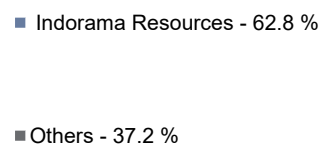
www.indoramaventures.com

Principal activities (revenue, 2021)



Source: Indorama Ventures

Major shareholders



Source: Indorama Ventures

Catalysts

Potential catalysts for IVL include: 1) higher PET and PTA margins; 2) a 10% y-y rising sales volume due to multiple acquired assets in 2018; and 3) an EBITDA margin recovery for HVA products, given the re-pricing of HVA products to reflect higher feedstock costs.

Risks to our call

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.

Event calendar

Date	Event
May 2022	1Q22 results announcement

Key assumptions

	2021E (USD/tonne)	2022E (USD/tonne)	2023E (USD/tonne)
Utilisation rate (%)	87	88	89
PET margin	299	311	407
PTA-PX margin	142	147	122
MEG-(0.58) ethylene margin	250	230	230
IOD EBITDA	420	600	580

Source: FSSIA estimates

Earnings sensitivity

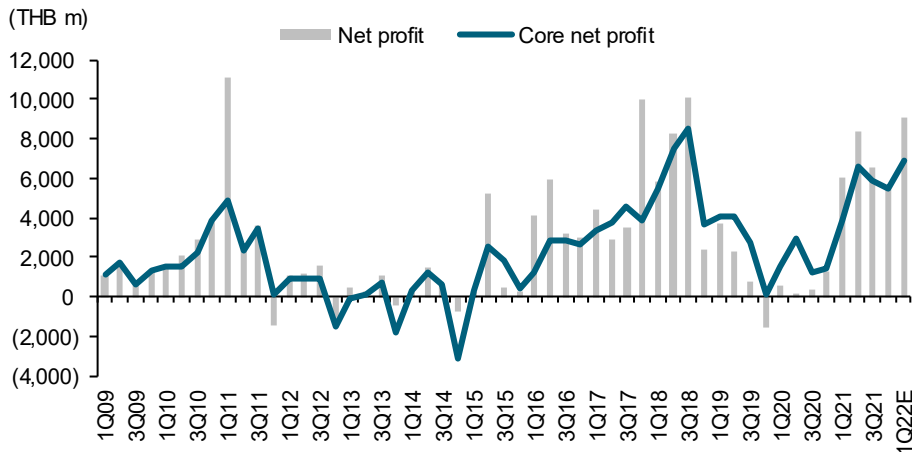
- For every 1% change in the THB/USD exchange rate, we estimate a 1.4% change in 2022 EPS, all else being equal.
- For every 1% increase in latex price, we estimate 2022 EPS would fall 0.7%, and vice versa, all else being equal.
- For every 1% increase in utilisation rate, we estimate 2022 EPS would rise 1.5%, and vice versa, all else being equal.
- For every 1% increase in ASP, we estimate 2022 EPS would rise by 0.8%, and vice versa, all else being equal.

Source: FSSIA estimates

Time to Buy with record high earnings incoming

We remain confident that 2022 will be a strong year for IVL, projecting a record high reported net profit of THB28b and a core net profit of THB23.6b. We think the strong net profit will begin in 1Q22 and likely rise gradually throughout 2022, backed by higher sales volumes and the sustained high margins of its combined PET products (PET and PTA), IOD, and fibre, thanks to IVL's product demand resiliency as essential raw materials for packaging and clothes, personal care consumables, and the industrial and automotive industries.

Exhibit 1: Quarterly net profit and core net profit



Sources: IVL; FSSIA estimates

Expect strong 1Q22 net profit of THB9.1b. We project IVL to post a strong 1Q22 net profit of THB9.1b, up 69% q-q and 52% y-y. Excluding an inventory gain of THB2.2b, we expect its core net profit to rise to THB6.9b, backed by:

- Combined PET EBITDA to jump to USD370m in 1Q22.** We expect significantly higher margins for its integrated PET and PTA under contract, which accounts for 70% of its total sales volumes in North America and Europe (Western market). This comes after IVL has already raised its margins by over €110/t for the European contract volume and USD120/t for the North American contract volume.

We project that the EBITDA from the combined PET group will rise to USD370m in 1Q22, up from USD266m in 4Q21.
- Continued strong EBITDA from the IOD group at USD124m,** slightly higher q-q from USD123m in 4Q21, thanks to the additional EBITDA generated from the ethane cracker which started its commercial operation date (COD) in Nov-21. We think this will timely offset the slightly lower q-q margin of its downstream IOD products due to destocking and margin normalisation from the high levels in 2H21. Note that the additional USD0.1-0.2b from the recently acquired Oxiteno is still not included in 1Q22 as IVL completed the acquisition in Apr-22.
- EBITDA from fibre to stay strong at USD80m in 1Q22** vs USD82m in 4Q21. In our view, demand remains strong as the impacts of the Russia-Ukraine war and China's shutdown have been very limited on IVL's sales volumes and margins, thanks to IVL's low sales volume exposure at only 4% in China and less than 1% in Ukraine.
- A USD80m before-tax inventory gain** thanks to the higher oil and gas prices. We think this will positively impact IVL's product margins as its competitors have no choice but to raise their selling prices to pass through part of the higher energy costs.
- The up to USD30-40/t higher energy cost should be more than offset by higher product margins in 2022.** Management indicated that IVL has incorporated a USD40/t higher energy cost into its financial performance but still sees significantly improving margins and EBITDA for all three of its product segments – combined PET, IOD, and fibre.
- 3% q-q higher sales volume to 3.83mt** with an estimated 86% overall utilisation rate, up from 84% in 4Q21, led by the higher utilisation rate of the combined PET group at 85%, up from 83% in 4Q21.

Exhibit 2: Summary of 1Q22E operations

	1Q21	4Q21	1Q22E		2021	2022E	Change	
	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(THB m)		(THB m)
Revenue	98,118	131,710	150,121	14.0	53.0	468,108	383,886	(18.0)
Operating costs	(83,498)	(115,953)	(131,026)	13.0	56.9	(410,024)	(324,691)	(20.8)
EBITDA	14,620	15,757	19,095	21.2	30.6	58,084	59,195	1.9
EBITDA margin (%)	14.9	12.0	12.7	nm	nm	12.4	15.4	nm
Depn & amort.	(4,345)	(6,754)	(5,412)	(19.9)	24.6	(20,487)	(20,521)	0.2
EBIT	10,275	9,003	13,683	52.0	33.2	37,597	38,675	2.9
Interest expense	(1,870)	(1,797)	(1,835)	2.1	(1.9)	(7,121)	(7,245)	1.7
Interest & invt inc	43	44	120	170.9	177.8	216	1,179	446.4
Associates' contrib	28	66	80	20.7	184.0	160	653	307.3
Exceptionals	(656)	773	194	(74.9)	(129.6)	64	3,566	5,487.6
Pretax profit	7,821	8,089	12,242	51.3	56.5	30,916	36,827	19.1
Tax	(1,312)	(1,840)	(2,140)	16.3	63.2	(6,703)	(7,953)	18.6
Tax rate (%)	17	23	17	nm	nm	22	22	nm
Minority interests	(500)	(858)	(982)	14.4	96.3	(1,966)	(672)	(65.8)
Net profit	6,009	5,392	9,120	69.2	51.8	22,247	28,202	26.8
Non-recurring	2,159	(74)	2,197	nm	1.8	361	4,649	1,187.8
Core net profit	3,850	5,466	6,923	26.7	79.8	21,886	23,553	7.6
EPS (THB)	1.07	0.96	1.62	69.2	51.8	3.96	5.02	26.8
Core EPS (THB)	0.69	0.97	1.23	26.7	79.8	3.90	4.20	7.6

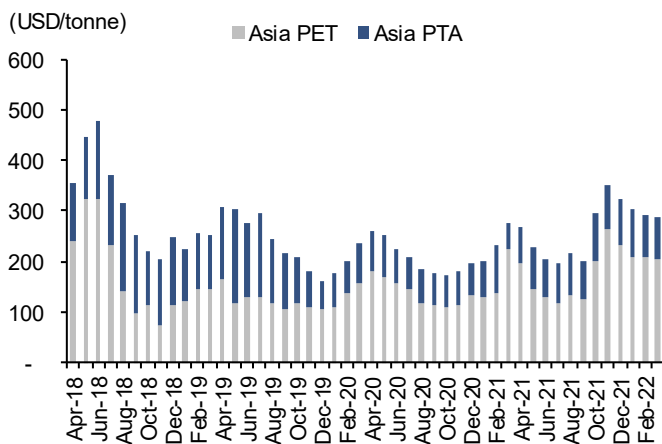
Sources: IVL; FSSIA estimates

Strong margins continue as expected

In 1Q22, the margins of IVL's core products have all remained strong, with the Asian integrated PET-PTA margin at USD300/t and the Western integrated PET-PTA margin at over USD800/t.

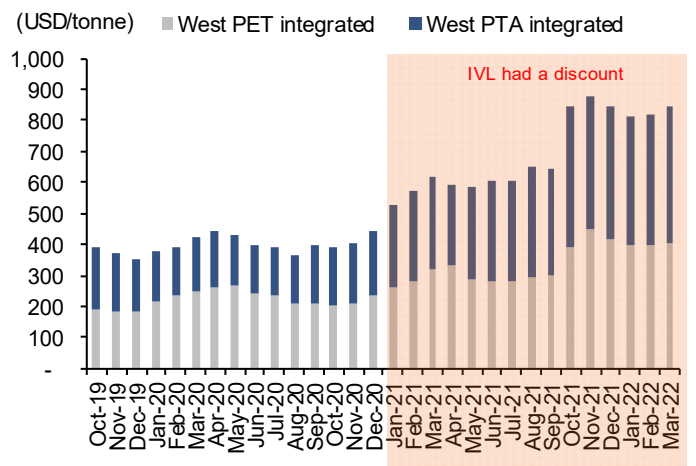
The MEG margin in the US has stayed strong at USD470/t in 1Q22, thanks to the strong demand and tighter supply. The margin of MTBE shot up markedly to over USD250/t in 1Q22 and hit USD450/t in Mar-22, driven by the higher demand for gasoline. We think the MTBE margin will continue to stay above USD400/t in 2Q22 given the projected higher demand for the summer driving season.

Exhibit 3: Asia industry PET and PTA spread



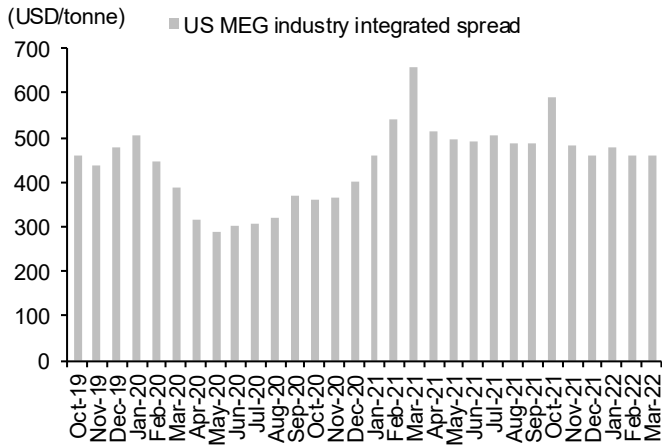
Source: IVL

Exhibit 4: Western industry PET and PTA spread



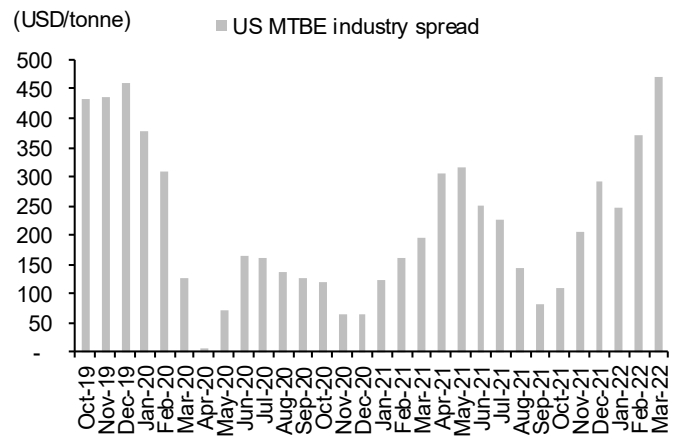
Source: IVL

Exhibit 5: US MEG industry integrated spread



Source: IVL

Exhibit 6: US MTBE industry spread

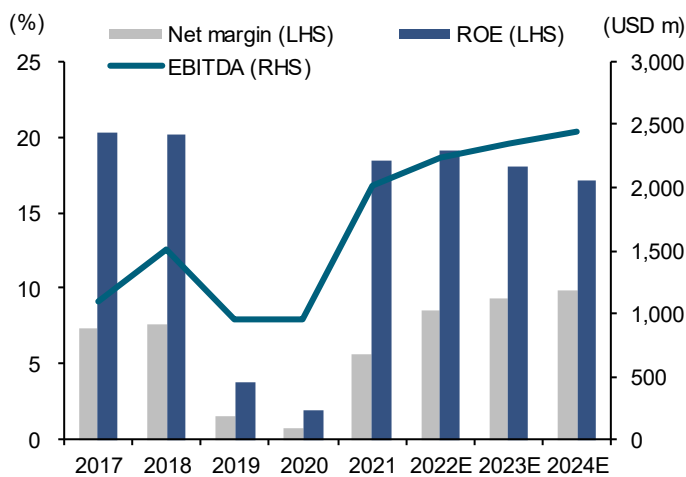


Source: IVL

Strong Buy ahead of powerful earnings growth momentum

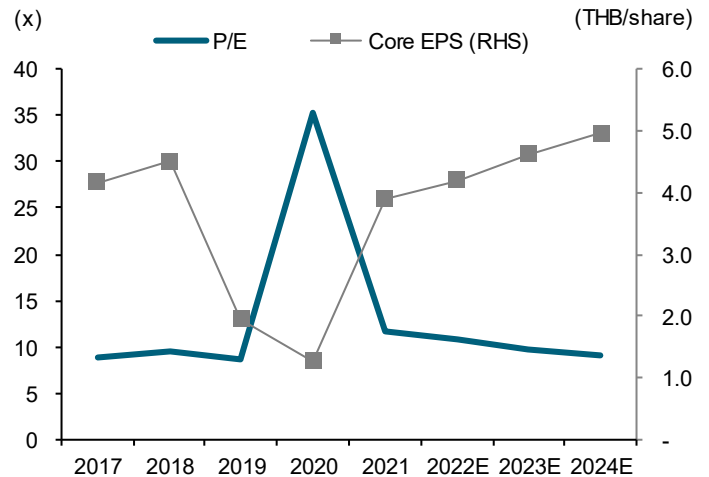
We maintain BUY and our target price of THB70, based on 9.4x 2022E EV/EBITDA. At the closing share price of THB45.50 on 25 Apr-22, IVL is trading at a highly attractive forward P/E below 12x in 2022-24E, which we think is unjustified against IVL’s strong and highly visible earnings growth momentum in 1Q22-4Q22.

Exhibit 7: EBITDA, net margin and ROE



Sources: IVL; FSSIA estimates

Exhibit 8: P/E multiple vs core EPS



Sources: IVL; FSSIA estimates

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)					
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) *	35.5	11.7	10.8	9.9	9.2
Recurring P/E @ target price (x) *	54.7	18.0	16.7	15.2	14.1
Reported P/E (x)	39.7	11.5	9.1	8.4	7.9
Dividend yield (%)	0.2	2.6	5.7	6.1	6.4
Price/book (x)	2.0	1.6	1.4	1.2	1.1
Price/tangible book (x)	2.0	1.6	1.4	1.2	1.1
EV/EBITDA (x) **	13.6	7.9	7.0	6.2	5.5
EV/EBITDA @ target price (x) **	17.9	10.2	9.4	8.4	7.7
EV/invested capital (x)	1.3	1.1	1.2	1.1	1.0

* 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 2020

EXCELLENT LEVEL										
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AOT	AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS
BEC	BEM	BGRIM	BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG
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	ICI	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	OTO	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	SCCG	SCG	SCN	SDC
SEAFCO	SEOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC
SONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA
SVI	SYMC	SYNTEC	TACC	TASCO	TCAP	TFMAMA	THANA	THANI	THCOM	THG
THIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
TNL	TOA	TOP	TPBI	TQM	TRC	TRC	TSC	TSR	TSTE	TSTH
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
VGI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		

VERY GOOD LEVEL										
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAHA	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	B	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	WIJK	WP	XO
YUASA	ZEN	ZIGA	ZMICO							

GOOD LEVEL										
7UP	A	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
KCM	KKC	KUMWEL	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	TIPIP	TPLAS
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		

Description

Score Range

Excellent

90-100

Very Good

80-89

Good

70-79

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; ** delisted

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

Anti-corruption Progress Indicator 2020

CERTIFIED										
2S	ADVANC	AI	AIE	AIRA	AKP	AMA	AMANAHA	AP	AQUA	ARROW
ASK	ASP	AYUD	B	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	CM	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	GUNKUL
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	SYNTEC
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	WIJK	XO
ZEN	TRUE									

DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	CHO	CI	COTTO	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

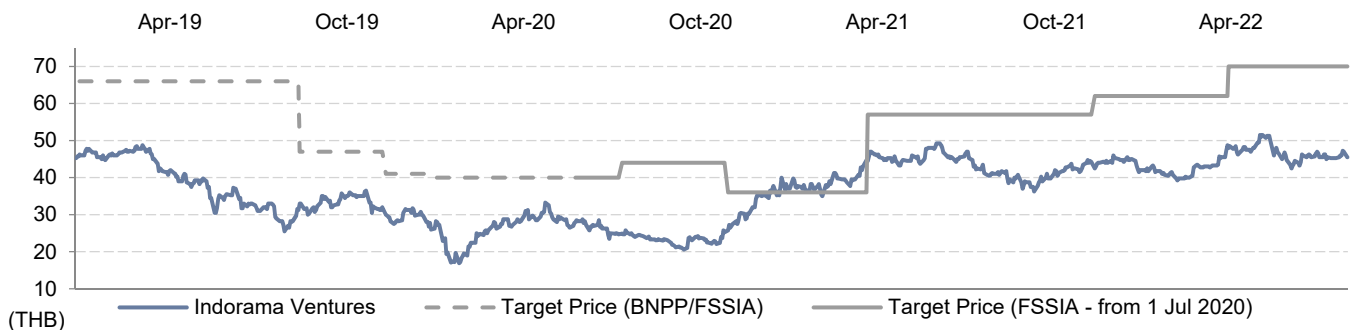
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

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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
02-May-2019	BUY	66.00	27-Feb-2020	BUY	40.00	08-Mar-2021	BUY	57.00
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

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 45.50	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 Finasia 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 Finasia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 25-Apr-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.