### EQUITY RESEARCH - COMPANY REPORT

UNCHANGED

# 6 NOVEMBER 2020 THAILAND / PETROCHEM & CHEMICALS INDORAMA VENTURES



 TARGET PRICE
 THB36.00

 CLOSE
 THB25.75

 UP/DOWNSIDE
 +39.8%

 PRIOR TP
 THB44.00

 CHANGE IN TP
 -18.2%

 TP vs CONSENSUS
 +18.8%

# จากปี 2020 ที่ยุ่งเหยิงสู่ปี 2021 ที่โรยด้วยกลีบกุหลาบ

### แนวโน้มการเติบโตของกำไรสุทธิดีและชัดเจนมากขึ้นในปี 2021-2022

ในปี 2020 กำไรสุทธิของ IVL มีแนวโน้มที่อ่อนแอ บริษัทฯ ได้รับผลกระทบจากผลขาดทุนที่ไม่ ได้มาจากการดำเนินงานหลายประการใน 1H20 ซึ่งคาดว่าจะสูงถึง USD384ล้าน ส่วนมากมา จากปัจจัยภายนอก เราเชื่อว่าผลิตภัณฑ์ที่มีอัตรากำไรคงที่หรือค่อนข้างคงที่ เช่น PET และ PTA ในทวีปอเมริกาเหนือและยุโรป สารลดแรงดึงผิว และบรรจุภัณฑ์ควรสร้าง EBITDA ให้ IVL อย่างน้อยปีละ USD0.8b-0.9พันล้าน ในปี 2021-2022 ในขณะที่ EBITDA ที่มาจาก ผลิตภัณฑ์อื่นของ IVL เช่น PET และ PTA ในทวีปเอเชีย ผลิตภัณฑ์ IOD (ประกอบด้วย MTBE PO/PG EO/EG และ Ethanolamine) โอเลฟินส์ต้นน้ำ และผลิตภัณฑ์พิเศษอื่น ๆ เช่น เส้นใยโพลิเอสเตอร์ PIA NDC และ Recycling PET ควรสร้าง EBITDA รวมอยู่ในช่วง USD0.6b-0.9พันล้าน ในปี 2021-2022 เพิ่มจาก USD0.3b-0.4พันล้านในปี 2020 เนื่องจาก บริษัทฯ ควรได้รับผลกระทบที่ลดลงจากพายุเฮอร์ริเคน ฟ้าผ่า COVID-19 และการปิดโรงงาน ทั้งตามและนอกแผน

### กำไรสุทธิจากการดำเนินงานที่พร้อมฟื้นตัวและยั่งยืน

เมื่อหักรายการพิเศษที่ไม่ได้มาจากการดำเนินงานหลายรายการ ประกอบด้วย กำไร (ขาดทุน) จากสินค้าคงคลัง รายการที่เกี่ยวข้องกับภัยธรรมชาติ เช่น ความเสียหายจากฟ้าผ่าและพายุ เฮอร์ริเคน และผลกระทบจาก COVID-19 เราพบว่านับตั้งแต่ไตรมาส 1Q15 กำไรสุทธิจากการ ดำเนินงาน (Core Net Profit) ของ IVL ยังคงเป็นบวกตลอดช่วงวงจรผลิตภัณฑ์โพลิเอสเตอร์ที่ ผันผวนทั้งขึ้นและลง ผลลบที่ไม่เคยเกิดขึ้นมาก่อนจากการแพร่ระบาด COVID-19 และความ เสียงที่เพิ่มสูงขึ้นของสงครามการค้าระหว่างสหรัฐฯ และจีน ในปี 2021-2022 เราคาดว่ากำไร รวมของ 2 ผลิตภัณฑ์ปลายน้ำสำคัญของ IVL กล่าวคือ PET และ PTA จะยังคงอ่อนแอ อย่างไรก็ดี ปริมาณขายที่สูงขึ้นจะช่วยหนุนการเติบโตของกำไรสุทธิ

### ้ส่วหลด 38% จากราคาตลาด(replacement value)ที่ 46 บาท

การวิเคราะห์ของเราระบุว่าราคาหุ้นของ IVL ในปัจจุบันอยู่ในระดับที่น่าสนใจ โดยให้ส่วนลด 38% จากราคาตลาดที่เราคาดว่าจะอยู่ที่ 46 บาท จากข้อมูลในอดีต ราคาหุ้นของ IVL มีการซื้อ ขายในราคาที่ต่ำกว่าราคาตลาด 40% ถึงสูงกว่าราคาตลาด 50% ดังนั้นเมื่อพิจารณาถึงส่วนลด 38% จากราคาตลาดในปัจจุบัน เรามองว่า IVL อยู่ในระดับที่น่าสนใจ เนื่องจากมีความเสี่ยงขา ลงจำกัด

### ปรับประมาณการกำไรต่อหุ้นและราคาเป้าหมาย

เราปรับประมาณการกำไรด่อหุ้นในปี 2020-2022 ลง 38-85% เพื่อสะท้อน 1) PETPTA และ PTA-PX margins ที่ลดลงจากผลกระทบของ COVID-19; และ 2) ผลขาดทุนสินค้าคงคลัง จำนวนมากถึง 0.6พัน ลบ. ในช่วง 1H20 เราลดราคาเป้าหมายของเราลงเหลือ 36 บาท (คิด จากค่า 2021E EV/EBITDA ที่ 9.4x) จาก 44 บาท (คิดจากค่า 2021E EV/EBITDA ที่ 9.6x) เพื่อสะท้อน 1) PTA margin ที่คาดว่าจะลดลงและวงจรอุตสาหกรรมระยะกลางสำหรับ PET ใน ปี 2021-2022; และ 2) การปรับลดประมาณการกำไรต่อหุ้นและ EBITDA ของเรา



Suwat Sinsadok suwat.sin@fssia.com +66 2611 3558 Siriluck Pinthusoonthorn siriluck.pin@fssia.com +66 2611 3562 **KEY STOCK DATA** 

**IVL TB** 

YE Dec (THB m)	2019	2020E	2021E	2022E
Revenue	352,692	312,483	344,703	343,920
Net profit	5,252	2,974	9,316	14,375
EPS (THB)	0.93	0.53	1.65	2.54
vs Consensus (%)	-	(53.8)	(23.0)	(12.4)
EBITDA	26,475	32,815	35,119	40,951
Core net profit	3,465	1,189	7,531	12,590
Core EPS (THB)	0.61	0.21	1.33	2.23
Chg. In EPS est. (%)	-	(84.6)	(44.2)	(37.9)
EPS growth (%)	(86.3)	(65.7)	533.6	67.2
Core P/E (x)	42.0	122.5	19.3	11.6
Dividend yield (%)	1.4	0.8	2.4	3.7
EV/EBITDA (x)	10.8	8.2	7.7	6.4
Price/book (x)	1.1	1.1	1.0	1.0
Net debt/Equity (%)	95.2	94.9	78.6	62.5
ROE (%)	2.5	0.9	5.6	8.7



5,614.55

Sources: Bloomberg consensus; FSSIA estimates

Issued shares (m)

PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

บทวิเคราะห์ฉบับนี้แปลมาจากบทวิเคราะห์ของ FSSIA ฉบับวันที่ 6 พฤศจิกายน 2020

### **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 into a packaging, olefin-integrated company in 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&As 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

### Catalyst

1) Higher PET and PTA margins; 2) a 10% y-y rising sales volume due to multiple acquired assets in 2018; 3) the EBITDA margin recovery for HVA products, given the repricing of HVA products to reflect higher feedstock costs.

# Risk 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

 9 Nov 2020
 3Q20 results announcement

# Principal activities (revenue, 2019)

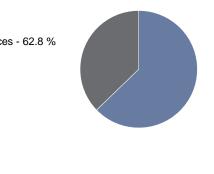
- PET 55.6 %
- Feedstock 37.7 %
- Fibres 30.4 %
- Eliminations and unallocated -(23.6) %

Source: Indorama Ventures

### **Major shareholders**

Others - 37.2 %

Indorama Resources - 62.8 %



## Key assumptions

Source: Indorama Ventures

	2020E	2021E	2022E
	(USD/tonne)	(USD/tonne)	(USD/tonne)
Utilisation rate (%)	86	87	88
PET margin	92	55	41
PTA-PX margin	61	81	86
MEG-(0.58)ethylene margin	180	200	200

Source: FSSIA estimates

### Earnings sensitivity

- For every 1% change in THB/USD exchange rate we estimate a 1.4% change in 2021 EPS, all else being equal.
- For every 1% increase in latex price, we estimate 2021 EPS would fall 0.7%, and vice versa, all else being equal.
- For every 1% increase in utilisation rate, we estimate 2021 EPS would rise 1.5%, and vice versa, all else being equal.
- For every 1% increase in ASP, we estimate 2021 EPS would rise by 0.8%, and vice versa, all else being equal.

Source: FSSIA estimates



Indorama Ventures IVL TB

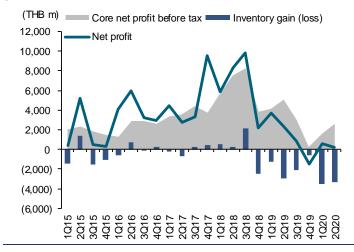
# Net profit to rebound in 2021 after a miss in 2020

IVL's net profit outlook for 2020 is weak. The company was impacted by a series of non-operating losses in 1H20, amounting to an estimated USD384m, mostly from external factors. Despite these large non-operating losses, IVL still reported a net profit of THB736m in 1H20 and maintained quarterly profits in both 1Q20 and 2Q20, thanks to its well-diversified product portfolio with a global presence in terms of both product sites and markets.

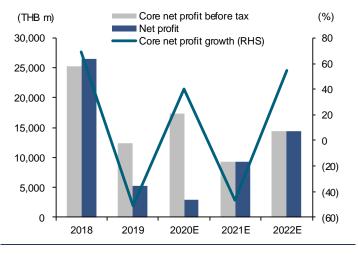
Excluding multiple non-operating, non-recurring items, including inventory gains (losses), natural disaster-related items like lightning damage and hurricanes, and the COVID-19 impact, we have determined that since 1Q15, IVL's core net profit has remained positive throughout the tumultuous polyester product up and downcycle period, the unprecedented negative impact from the COVID-19 pandemic, and the rising risk of a US-China trade war.

Looking ahead to 2021-22, when we expect the global demand for polyester products to improve, we believe IVL's reported net profits in 2021-22 will significantly improve from 2020, despite our projection of weaker core net profits in 2021-22 due to weaker product margins.

# Exhibit 1: Quarterly core net profit before tax, inventory gains (losses), and reported net profit



# Exhibit 2: Annual core net profit before tax, inventory gains (losses), and reported net profit



Source: IVL

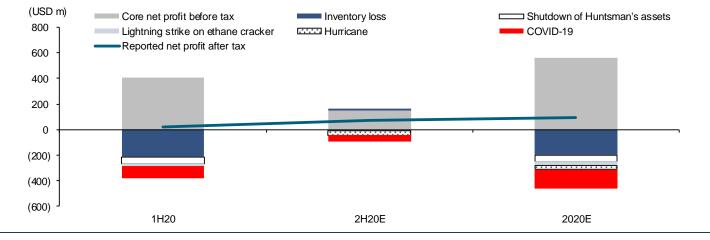
# Sources: IVL; FSSIA estimates

A series of mishaps in 1H20 are the major causes of IVL's weak 1H20 and 2020E reported net profits. Our analysis indicates that IVL, similar to other petrochemical and global companies, has suffered from a series of events that led to a weak reported net profit in 1H20.

The mishaps in 1H20, with some extending into 2H20, include:

An inventory loss of THB213m in 1H20, due to the sharp decline in oil price that led to the plunging prices of paraxylene (PX), purified terephthalic acid (PTA), monoethylene glycol (MEG), and polyethylene terephthalate (PET); all being IVL's intermediate and end products sold globally. While we project IVL to have some inventory gains in 2H20, in the range of USD15-20m due to the oil price recovery, we think the inventory loss impact will remain the most significant factor in eroding IVL's reported net profit in 2020.

- **COVID-19 impact leading to a loss of up to USD150m in 2020.** This year, the global economy and demand for all petrochemical products have been hit by the coronavirus pandemic. For IVL, the demand for lifestyle attire polyester and automotive tire cords, which account for over 15-25% of IVL's sales volume, have been hit the hardest due to the global lockdowns. We estimate that in 2020 IVL will have lost USD150m from the demand collapses caused by the COVID-19 outbreak, which includes USD100m EBITDA from the automotive industry and USD50m EBITDA from the lifestyle attire industry. We believe that once a vaccine is successfully implemented, likely in 2021, the demand for the attire and automotive industries should rebound to close to pre-COVID levels, driving up the demand for IVL's products.
- Lightning strike on IVL's ethane cracker for a loss of THB20m. In April 2020, IVL's 0.44mtpa ethane cracker, which just started operations in 4Q19, was hit by a lightning strike, forcing a complete shutdown for 10 months until February 2021, according to management. While management stated that most of the property damage of up to USD8-10m and the earnings loss of USD10-15m a quarter would mostly be covered by insurance, we estimate that IVL will still suffer up to a USD20m net profit loss in 2020. As management indicated that IVL plans to start up its ethane cracker unit in February 2021, we think the impact of the lightning strike on IVL's net profit should evaporate in 2021.
- Hurricane Laura caused a loss of USD35m. In October 2020, hurricane Laura made landfall on the US Gulf Coast where IVL's key assets for its integrated oxide derivatives (IOD) group are located. These assets were mostly acquired from Huntsman in 2019 with a total capacity of 3.1mtpa. The hurricane caused an operational disruption to IVL's IOD plants, which amounted to a total loss of USD35m, based on management's guidance.
- Unplanned shutdown of IOD plants in 1H20. In 1H20, IVL's planned maintenance shutdown for its methyl tert-butyl ether (MTBE) and propylene oxide (PO) plants took longer than expected, lasting more than five months vs the planned two to three months. This led to a net loss of USD51m in 1H20, according to management. Note that these two key plants generated over USD200m EBITDA in 2019, based on our estimate. Hence, we think the return of these PO and MTBE plants to normal operations should be a key earnings driver for IVL in 2021-22.



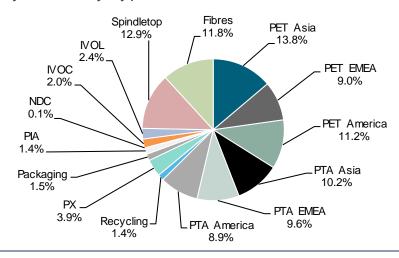
#### Exhibit 3: Breakdown of IVL's core net profit against the multiple non-recurring items in 2020E

Sources: IVL; FSSIA estimates

**Sustainability is key.** We believe IVL's current asset portfolio is one of the most competitive portfolios among global petrochemical players, given its highly integrated polyester value chain which includes 1) the upstream feedstocks of ethylene and propylene via its two crackers and PX; 2) the two key intermediate feedstocks of PTA and MEG; 3) the three downstream end-products of PET, polyester fibres, and packaging; 4) the IOD assets acquired from Huntsman (Spindletop), including many high-margin products in the IOD chain like MTBE, PO, ethylene oxide (EO), ethylene glycol (EG), and surfactants; and 5) recycling PET.



### Exhibit 4: IVL's capacity breakdown by key products



Source: IVL

In addition to IVL's well-diversified and integrated product portfolio, we think the global presence of its production sites worldwide in five continents further strengthens IVL's earnings sustainability vs other petrochemical peers. This has been reflected in its profitable quarterly results over the past six years after it successfully transitioned from a commodity-driven, polyester-focused product portfolio to a specialty-driven, polyester and IOD-focused product portfolio.

### Exhibit 5: IVL's capacity growth cycle

	Unit	2 <sup>nd</sup> growth cycle	Current growth cycle
Period		2015-16	2020-23
Capacity growth	%	25	22
% EBITDA	%	26	23
Key drivers		AlphaPET, HVA	Huntsman, ethane cracker
Product added		PET, HVA	Olefins and derivatives
PET-PTA integrated margin	USD/t	188-194	200
Estimated EBITDA contribution from new capacity	USD m	200	270

Sources: IVL; FSSIA estimates

### Margin trend of IVL's key products

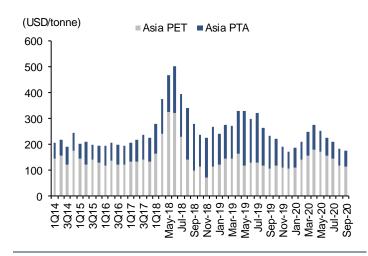
**Expect weak PET-PTA margin in 2021-22.** In 2021-22, we project the integrated margins of IVL's two key downstream products, PET and PTA, to remain weak. IVL has a total PET and PTA capacity of 11.6mtpa in North America, Asia and Europe, which accounts for 62% of its total capacity of 18.6mpta as of 2Q20.

Since its peak in 2Q18 at USD500/t, the integrated PET-PTA margin has declined to its current USD190-200/t in 3Q20, dragged down mainly by the weak PTA-PX margin as a result of the new PTA supply influx in China. The PTA-PX margin in Asia has collapsed from USD212/t in May 2019 to USD64/t in September 2020, entering into a downcycle since the beginning of 2020 when the PTA-PX margin dropped below USD100/t for the first time since 2018.

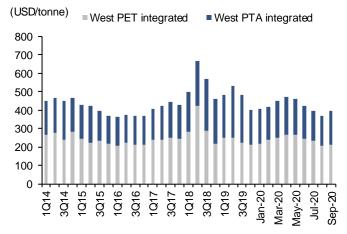
However, the integrated PET-PTA margin in Europe and North America has been much more resilient than the PET-PTA margin in Asia, given the more favourable oligopolistic market structure with three dominating players in North America and fewer than 10 key players in Europe vs the large number of producers in Asia. Thanks to IVL's geographical production presence and market diversification, we believe the expected integrated PET-PTA margin downcycle in 2021-22 will have a smaller impact on IVL's net profits than on its regional and local peers'.

We project the integrated PET-PTA margin to remain in the range of USD180-220/t in Asia and USD380-459/t in Europe and North America (West). This would generate USD800m to USD1b EBITDA for IVL from PET and PTA alone in 2021-22, based on our estimate.

### Exhibit 6: PET-PTA and PTA-PX spreads in Asia



# Exhibit 7: PET-PTA and PTA-PX spreads in Europe and North America (West)



Source: IVL

Source: IVL

**The margins of IOD products should rebound in 2021-22.** There are four key products in IVL's IOD portfolio – MTBE and EO/EG as two key commodity product groups and PO/propylene glycol (PG) and ethanolamine/surfactants as two key specialty product groups.

### Exhibit 8: IVL's capacity and application breakdown

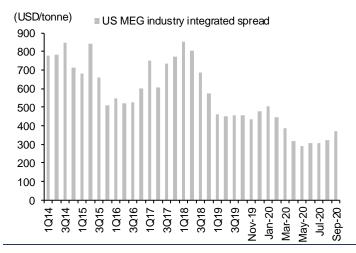
	Product	COMA (%)	Application
Combined PET	PET/PTA	50	F&B
	PX, IPA		Packaging
Fibres	Polyester, Nylon, PP/PE, Rayon	24	Automotive, Hygiene, Personal care, Lifestyle
Integrated Oxides (IOD)	Ethane/Propylene	26	PO/Oxyfuel
	EG/EO		
	PO/PG		
	Ethanolamine/Surfactants		
	МТВЕ		

Source: IVL

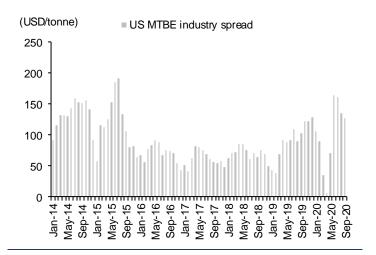
The margins of PO/PG and ethanolamine/surfactants have been relatively stable at high levels, thanks to their limited supply and necessary nature in terms of their use in hygiene, anti-freeze, and packaging applications. On the other hand, the MTBE – the blending product for gasoline – margin collapsed from USD130/t in December 2019 to only USD6/t in April 2020 when the US implemented its nationwide lockdown to fight the COVID-19 outbreak, causing the gasoline demand collapse in the US market. Since then, the MTBE margin has sharply rebounded to USD161/t in June, and recently softened to USD127/t in September 2020 due to the concerns over the second wave of infections in the US.

We believe IVL's net profit from MTBE (0.73mtpa capacity, or 6% of IVL's total capacity as of 2Q20) will recover meaningfully in 2021, when we project the MTBE margin to average USD140/t, up from USD99/t in 2020, potentially generating EBITDA of USD60-100m for IVL in 2021.

#### Exhibit 9: US MEG-ethylene spread



### Exhibit 10: US MTBE spread



Source: IVL

Source: IVL

**The MEG-ethylene margin should rebound marginally in 2021-22.** The MEGethylene margin, another of IVL's key products in the IOD value chain, has similarly declined sharply from its USD845/t peak in 1Q18 down to USD369/t in September 2020, due to the demand collapse and industry oversupply. However, we believe the MEG-ethylene margin should rebound to stay at USD350-450/t in 2021-22, supported by the tighter supply as a result of the damage caused by hurricanes in 2020 and the strong demand for packaging.

We believe that fixed or relatively fixed-margin products, such as PET and PTA in North America and Europe, surfactants, and packaging, should generate at least USD0.8b-0.9b annual EBITDA for IVL in 2021-22.

In addition, we estimate that the EBITDA generated from IVL's other products – PET and PTA in Asia, other IOD products (MTBE, PO/PG, EO/EG, and ethanolamine), upstream products like ethylene, propylene, PX and other specialty products including polyester fibres, purified isopthalic acid (PIA), naphthalene dicarboxylate (NDC), and recycling PET – should generate aggregate EBITDA in the range of USD0.6b-0.9b in 2021-22, up from USD0.3b-0.4b in 2020, as there should be a smaller impact from hurricanes, lightning, COVID-19, and planned and unplanned shutdowns.

#### Suwat Sinsadok

### **3Q20E results preview**

We project IVL to post a 3Q20 net profit of THB1.2b, up 51% y-y and 678% q-q. Key points are:

- A projected 10% q-q higher sales volume to 3.5mtpa, despite the forced shutdown of production plants in Port Neches, Texas, due to a hurricane;
- An estimated weaker integrated PET-PTA margin of USD190/t in Asia and USD395/t in the West markets, down from USD247/t and USD423/t in 2Q20, due mainly to the seasonally lower demand and rising PTA supply from China;
- The MTBE margin is projected to rebound to USD140/t, up from only USD79/t in 2Q20, thanks to the expected gasoline demand recovery;
- An estimated inventory gain of THB320m driven by the rising PX price.

# Exhibit 11: 3Q20E/9M20E results preview

	3Q19	2Q20		3Q20E		9M19	9M2	20E	2020E	Comments
	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)	(THB m)	
Revenue	84,478	75,010	84,523	12.7	0.1	275,184	251,557	(8.6)	312,483	Higher due to higher sales volume
Operating costs	(82,860)	(74,699)	(76,523)	2.4	(7.6)	(266,539)	(243,398)	(8.7)	(257,794)	Higher q-q due to higher volume
EBITDA	6,419	6,431	7,210	12.1	12.3	23,428	19,707	(15.9)	32,815	Higher due to higher product margins
EBITDA margin (%)	7.6	8.6	7.6	nm	nm	8.5	7.8	nm	11	Lower due to lower product margins
Depn & amort.	(4,353)	(3,716)	(3,852)	3.7	(11.5)	(12,649)	(12,450)	(1.6)	(15,535)	
EBIT	2,066	2,715	2,569	(5.4)	24.4	10,779	7,257	(32.7)	17,280	Lower q-q due to inventory gain
Interest expense	(1,357)	(1,785)	(1,865)	4.5	37.5	(4,284)	(5,837)	36.3	(9,702)	Higher due to higher debt
Interest & invt inc	50	92	152	66.0	203.7	143	2,269	1,485.6	1,179	
Associates' contrib	(5)	66	69	5.1	nm	(10)	150	nm	491	
Exceptionals	(2,125)	(2,456)	320	nm	nm	(6,310)	(3,127)	(50.4)	1,785	Inventory loss
Pretax profit	618	(409)	1,245	nm	101.4	6,700	2,164	(67.7)	4,833	Higher due to inventory gain
Тах	(27)	569	(45)	nm	66.2	(204)	530	nm	(1,257)	
Tax rate (%)	4	139	4	nm	nm	3	(25)	nm	26	
Minority interests	202	(6)	(6)	-	nm	272	12	(95.4)	(602)	
Net profit	793	154	1,194	677.6	50.6	6,768	2,707	(60.0)	2,974	
Core net profit	2,788	2,609	842	(67.7)	(69.8)	10,857	5,013	(53.8)	1,189	
EPS (THB)	0.15	0.03	0.22	677.6	50.6	1.25	0.50	(60.0)	0.53	
Core EPS (THB)	0.52	0.48	0.16	(67.7)	(69.8)	2.01	0.93	(53.8)	0.21	

Sources: IVL; FSSIA estimates

### **EPS and TP revisions**

We cut our net profit and EPS forecasts for 2020-22 by 38-85% to reflect 1) a lower PET-PTA margin by 40-67% in 2020-22 due to the COVID-19 impact that we expect to continue from 2020 into 2021-22, though to a lesser degree; 2) a lower PTA-PX margin by 19-36% due to the impact from the new supply influx in China and the weaker demand caused by the COVID-19 outbreak; and 3) we have incorporated the large 1H20 inventory loss of THB0.6b into our revised net profit and EPS forecast for 2020.

### Exhibit 12: Change of key assumptions

		Current			Previous		Change			
	2020E	2021E	2021E	2020E	2021E	2021E	2020E	2020E	2020E	
	(THB m)	(%)	(%)	(%)						
Revenue	312,483	344,703	343,920	326,503	357,855	358,326	(4.3)	(3.7)	(4.0)	
Gross profit	54,689	55,801	61,586	64,494	64,639	72,731	(15.2)	(13.7)	(15.3)	
Operating profit	32,815	35,119	40,951	41,639	43,168	51,232	(21.2)	(18.6)	(20.1)	
Recurring net profit	1,189	7,531	12,590	7,735	13,500	20,259	(84.6)	(44.2)	(37.9)	
Core EPS (THB)	0.2	1.3	2.2	1.4	2.4	3.6	(84.6)	(44.2)	(37.9)	
Key assumptions	(USD/tonne)	(USD/tonne)	(USD/tonne)	(USD/tonne)	(USD/tonne)	(USD/tonne)	(%)	(%)	(%)	
Utilisation rate (%)	86	87	88	86	87	88	-	-	-	
PET margin	92	55	41	153	124	124	(39.6)	(55.5)	(66.9)	
PTA-PX margin	61	81	86	96	106	106	(36.4)	(23.7)	(18.9)	
MEG-(0.58) ethylene margin	180	200	200	180	200	200	-	-	-	

Source: FSSIA estimates

**Replacement value is now attractive.** Our analysis indicates that IVL's share price is now attractive, trading at a 38% discount to our estimated replacement value of THB46. Historically, IVL's share price has traded at a 40% discount to a 50% premium to its replacement value. Hence, at the current 38% discount to replacement value, we think IVL is now attractive with a limited downside.

### Exhibit 13: Implied EV/EBITDA valuation based on estimated replacement value

NAV based on replacement cost		Unit	Comment
Asset value	541,270	THB m	USD17.5b
Net debt	(116,782)	THB m	At end-21
NAV	424,489	THB m	USD13.7b
No. of outstanding shares	5,656	m shares	
NAV per share	75.1	THB/share	
Market price (as of 5 Nov 2020)	25.8	THB/share	
Market cap	145,642	THB m	
Net debt at end-2021E	116,782	THB m	
EV	262,424	THB m	
EV per share	46.4	THB/share	
EV % (discount)/premium to replacement value	(38.2)	%	
Base case - 2021E EBITDA	1,002	USD m	
Worst case - 20% drop in 2021E EBITDA	802	USD m	
Implied EV/EBITDA	At USD1b EBITDA	At USD0.8b EBITDA	Unit
At market price	8.4	10.6	х
At replacement value	13.7	17.1	х

Sources: IVL; FSSIA estimates

We have calculated our replacement value of THB46 by assigning different replacement costs, including working capital, for each product capacity according to their different geographical locations, considering that the construction costs for different products and countries differ. We have determined that IVL's replacement value before subtracting the net debt is USD17.5b, or THB541.3b.

### Exhibit 14: Replacement value, 2020E

2020E	Capacity	Replacement cost incl. net working capital	Replacement value
	(ktpa)	(USD/t)	(USD m)
PET Asia	2,544	550	1,399
PET EMEA	1,654	600	992
PET America	2,056	700	1,439
PTA Asia	1,886	600	1,132
PTA EMEA	1,768	650	1,149
PTA America	1,643	750	1,233
Recycling	253	2,000	506
PX	720	500	360
Packaging	279	1,500	419
PIA	267	800	214
NDC	27	8,000	216
IVOG	495	1,400	693
IVOL	440	2,500	1,100
Spindletop	2,383	1,400	3,336
Fibres	2,182	1,500	3,272
Total in USD m			17,460
Total in THB m			541,270

Sources: IVL; FSSIA estimates

We lower our TP to THB36, based on 9.4x 2021E EV/EBITDA, from THB44, previously based on 9.6x 2021E EV/EBITDA, to reflect 1) the projected margin weakness for PTA but the resilient mid-cycle for PET in 2021-22; and 2) our EPS and EBITDA revisions. We think IVL remains attractive, trading at 7.7x 2021E EV/EBITDA and 1.0x 2021E P/BV, against its improving net profit outlook in 2021-22.

### Exhibit 15: One-year prospective EV/EBITDA band



Sources: Bloomberg; FSSIA estimates

Exhibit 16: One-year prospective P/BV band



Sources: Bloomberg; FSSIA estimates

# Exhibit 17: Peer comparisons

Company	BBG	Rec	Share	Target	Upside	Market	3Y EPS	P			)E	PB		EV/EB	ITDA-
,	code		Price	price		Сар	CAGR	20E	21E	20E	21E	20E	21E	20E	21E
			(LCY)	(LCY)	(%)	(USD m)	(%)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
THAILAND		51.04													
Indorama Ventures	IVL TB	BUY	25.75	36.00	40	4,683	80.4	122.5	19.3	0.9	5.6	1.1	1.0	8.2	7.7
Irpc Pcl	IRPC TB	BUY	2.16	4.20	94	1,430	(309.3)	5.7	5.1	9.1	9.5	0.5	0.5	5.5	4.5
Ptt Global Chem	PTTGC TB	BUY	44.25	50.00	13	6,431	33.7	20.8	12.5	3.4	5.8	0.7	0.7	7.6	5.5
Siam Cement	SCC TB	BUY	350.00	445.00	27	13,605	3.9	12.7	11.8	11.5	11.7	1.4	1.3	12.8	12.3
Eastern Polymer	EPG TB	BUY	5.40	6.30	17	490	9.5	15.0	16.4	9.6	8.7	1.4	1.4	10.4	10.8
Vinythai Public	VNT TB	NA	24.90	NA	NA	943	(11.2)	13.0	10.4	10.3	12.2	1.3	1.2	6.7	5.8
THAILAND avg						27,582	7.2	32.9	12.9	7.6	9.1	1.1	1.1	10.2	9.3
INDIA															
Reliance Industries	RIL IN	NA	1,955.00	NA	NA	177,988	12.7	28.7	30.7	10.6	8.2	2.9	2.3	17.1	17.5
INDIA avg			,			177,988	12.7	28.7	30.7	10.6	8.2	2.9	2.3	17.1	17.5
TAIWAN															
Formosa Plastics	1301 TT	NA	81.50	NA	NA	18,178	2.7	28.9	15.9	5.4	9.2	1.6	1.5	22.3	16.7
Nan Ya Plastics	1303 TT	NA	61.50	NA	NA	17,062	14.6	26.6	17.8	5.2	8.0	1.4	1.3	17.4	16.5
Formosa Chem&Fi	1326 TT	NA	71.30	NA	NA	14,601	(3.1)	28.9	19.5	3.8	5.5	1.2	1.2	15.3	14.3
Formosa Petro	6505 TT	NA	81.20	NA	NA	27,035	5.8	134.8	23.4	1.4	9.8	2.5	2.3	48.4	14.3
TAIWAN avg						76,875	5.3	65.6	19.6	3.6	8.5	1.8	1.7	29.1	15.4
SOUTH KOREA															
Hanwha Solutions	009830 KS	NA	47,950.00	NA	NA	6,715	46.3	17.8	12.7	7.4	9.2	1.2	1.1	10.5	9.0
Lotte Chemical	011170 KS	NA	245,000.00	NA	NA	7,503	0.5	40.2	12.0	1.5	5.3	0.6	0.6	8.3	5.0
Lg Chem	051910 KS	NA	677,000.00	NA	NA	45,040	73.8	37.6	26.8	7.9	10.3	2.9	2.7	12.7	10.3
Kumho Petro	011780 KS	NA	154,000.00	NA	NA	4,040	14.6	10.1	9.8	15.9	14.6	1.6	1.4	6.9	6.7
Oci	010060 KS	NA	64,700.00	NA	NA	1,373	(217.6)	NA	14.5	(3.3)	4.1	0.6	0.6	39.0	7.9
SOUTH KOREA avg		10.	01,700.00			64,671	52.6	33.3	22.3	(0.0) 7.4	9.7	<b>2.4</b>	2.2	12.2	9.3
MALAYSIA Petronas Chem	PCHEM MK	NA	6.37	NA	NA	11,939	3.5	30.4	19.9	5.5	7.7	1.6	1.5	11.6	8.9
Lotte Chemical Titan	TTNP MK	NA	2.25	NA	NA	1,251	(11.8)	51.8	25.1	0.9	1.4	0.4	0.4	2.3	2.1
MALAYSIA avg			2.20			13,191	(11.0) <b>2.0</b>	32.5	20.4	5.1	7.1	1.5	1.4	10.7	8.3
•							47.5		05.4			~ 4	~ ~	40.0	
Average (Asia)						360,306	17.5	37.9	25.1	8.1	8.5	2.4	2.0	18.0	14.6
US															
Eastman Chem	EMN US	NA	86.42	NA	NA	11,707	3.3	14.6	12.3	11.9	14.5	1.9	1.8	9.8	8.9
Dupont De Nem	DD US	NA	60.19	NA	NA	44,170	14.9	18.9	17.7	5.1	5.3	1.1	1.1	13.1	12.5
Celanese	CE US	NA	119.67	NA	NA	13,989	3.3	16.9	13.1	30.4	37.9	5.3	4.8	12.7	10.8
Westlake Chem	WLK US	NA	73.65	NA	NA	9,407	(2.9)	38.5	25.5	4.5	5.1	1.5	1.5	10.4	8.9
Ppg Industries	PPG US	NA	138.26	NA	NA	32,658	5.1	24.6	20.5	23.9	26.3	5.6	5.1	15.4	13.4
Alpek Sa De Cv	ALPEKA MM	NA	15.84	NA	NA	1,616	(20.4)	21.2	9.7	3.3	9.2	0.9	0.9	6.1	5.1
Avg (US)						113,547	7.5	21.5	17.9	14.3	16.4	3.0	2.8	13.1	11.8
ME/Europe															
Saudi Basic	SABIC AB	NA	89.90	NA	NA	71,910	7.6	245.0	29.3	0.6	5.5	1.7	1.7	14.1	10.1
Saudi Kayan	KAYAN AB	NA	10.04	NA	NA	4,015	(192.4)	245.0 NA	23.3 NA	(7.7)	(0.6)	1.1	1.1	17.5	11.3
Yanbu National	YANSAB AB	NA	57.00	NA	NA	8,549	9.1	60.1	28.4	3.3	8.1	2.1	2.2	18.1	12.9
Industries Qatar	IQCD QD	NA	9.60	NA	NA	15,706	9.1	30.5	22.0	4.9	6.6	1.8	1.7	25.4	19.5
Basf Se	BAS GR	NA	50.39	NA	NA	54,733	14.7	19.5	14.4	1.7	7.6	1.2	1.2	23. <del>4</del> 9.4	7.8
Arkema	AKE FP	NA	86.62	NA	NA	7,861	3.8	16.8	12.8	6.9	8.7	1.2	1.2	9.4 7.3	6.6
Lanxess Ag	LXS GR	NA	45.37	NA	NA	4,692	(6.1)	14.8	12.0	7.4	8.0	1.2	1.1	7.3	6.6
Solvay Sa	SOLB BB	NA	45.37 75.42	NA	NA	4,692 9,443	(0.7)	14.0	12.3	0.9	0.0 7.4	1.2	1.1	6.8	6.4
Avg (ME/Europe)		(1)/4	13.42	NA.	INA	9,443 <b>176,910</b>	(0.7) <b>4.5</b>	113.1	12.3 21.2	1.8	6.5	1.0 1.5	1.0 1.5	13.1	9.9
							00.0			10.0		0 -			10-
Petrochem under cove Average (all)	rage					650,763	26,639	7.6	32.5 22.8	12.6 7.5	7.2 9.4	8.7 2.3	1.1 2.0	1.0 15.8	10.0 12.8
(dil)						030,703	12.2	55.5	22.0	7.5	3.4	2.5	2.0	13.0	12.0

Share prices as of 5 Nov 2020

Sources: Bloomberg; FSSIA estimates

# **Financial Statements**

Indorama Ventures

Profit and Loss (THB m) Year Ending Dec	2018	2019	2020E	2021E	20228
Revenue	347,171	352,692	312,483	344,703	343,920
Cost of goods sold	(277,071)	(292,304)	(257,794)	(288,902)	(282,334
Gross profit	70,100	60,388	54,689	55,801	61,58
Other operating income	-	-	-	-	
Operating costs	(28,569)	(33,914)	(21,874)	(20,682)	(20,635
Operating EBITDA	41,531	26,475	32,815	35,119	40,95
Depreciation	(12,161)	(17,040)	(15,535)	(15,424)	(16,053
Goodwill amortisation	0	0	0	0	( -,
Operating EBIT	29,370	9,434	17,280	19,695	24,89
Net financing costs	(3,395)	(5,730)	(8,523)	(8,523)	(6,893
Associates	586	(0,700)	491	506	(0,000
Recurring non operating income	2,933	407	(5,709)	506	500
				1,785	1,78
Non recurring items	1,243	1,787	1,785		
Profit before tax	30,151	5,898	4,833	13,463	20,29
Tax	(3,812)	(1,534)	(1,257)	(3,502)	(5,279
Profit after tax	26,339	4,364	3,576	9,961	15,01
Minority interests	128	888	(602)	(645)	(643
Preferred dividends	0	0	0	0	
Other items	-	-	-	-	
Reported net profit	26,466	5,252	2,974	9,316	14,37
Non recurring items & goodwill (net)	(1,243)	(1,787)	(1,785)	(1,785)	(1,785
Recurring net profit	25,224	3,465	1,189	7,531	12,59
Per share (THB)					
Recurring EPS *	4.46	0.61	0.21	1.33	2.23
Reported EPS	4.68	0.93	0.53	1.65	2.5
DPS	0.35	0.35	0.20	0.62	0.9
Diluted shares (used to calculate per share data)	5,656	5,656	5,656	5,656	5,65
Growth					
Revenue (%)	21.2	1.6	(11.4)	10.3	(0.2
Operating EBITDA (%)	28.4	(36.3)	23.9	7.0	16.0
Operating EBIT (%)	35.6	(67.9)	83.2	14.0	26.4
		. ,			67.2
Recurring EPS (%)	15.5	(86.3)	(65.7)	533.6	
Reported EPS (%)	26.7	(80.2)	(43.4)	213.3	54.3
Operating performance	40 <b>-</b>	40.0	10.5		
Gross margin inc depreciation (%)	16.7	12.3	12.5	11.7	13.
Gross margin of key business (%)	16.7	12.3	12.5	11.7	13.
Operating EBITDA margin (%)	12.0	7.5	10.5	10.2	11.9
Operating EBIT margin (%)	8.5	2.7	5.5	5.7	7.:
Net margin (%)	7.3	1.0	0.4	2.2	3.
Effective tax rate (%)	12.6	26.0	26.0	26.0	26.0
Dividend payout on recurring profit (%)	7.8	57.1	94.3	46.6	43.0
nterest cover (X)	9.5	1.7	1.4	2.4	3.
nventory days	76.5	82.6	83.0	73.2	78.
Debtor days	36.7	37.2	37.8	33.8	35.
Creditor days	65.6	74.2	81.8	72.1	77.3
Dperating ROIC (%)	14.5	4.2	8.3	0.6	0.
ROIC (%)	13.3	3.6	4.6	0.5	0.
ROE (%)	19.3	2.5	4.6 0.9	5.6	0. 8.
ROA (%) 7 Pre-exceptional, pre-goodwill and fully diluted	8.7	2.3	2.7	2.0	3.
Revenue By Division (THB m)	2018	2019	2020E	2021E	20221
PET	182,415	196,047	134,859	139,458	139,93
Feedstock	147,296	132,911	100,905	113,613	113,613
Fibres	99,207	107,059	90,601	110,868	109,61
Eliminations and unallocated	(81,747)	(83,325)	(13,882)	(19,236)	(19,236

Sources: Indorama Ventures; FSSIA estimates

# **Financial Statements**

Indorama Ventures

ndorama Ventures					
ash Flow (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
ecurring net profit	25,224	3,465	1,189	7,531	12,590
epreciation	12,161	17,040	15,535	15,424	16,053
ssociates & minorities	-	-	-	-	-
ther non-cash items	(1,233)	(978)	(1,002)	(1,001)	(1,001)
hange in working capital	(5,933)	19,446	4,012	(3,215)	78
ash flow from operations	30,218	38,973	19,734	18,739	27,719
apex - maintenance	-	-	-	-	-
apex - new investment	(16,275)	(16,233)	(13,200)	(13,200)	(13,200)
let acquisitions & disposals	0	0	0	0	0
other investments (net)	(39,953)	(9,065)	0	0	0
ash flow from investing	(56,228)	(25,298)	(13,200)	(13,200)	(13,200)
ividends paid	(9,615)	(6,929)	(1,980)	(1,121)	(3,511)
quity finance	0	0	0	0	0
lebt finance	40,414	8,881	66,179	0	0
ther financing cash flows	(6,088)	(10,760)	2,898	2,926	2,923
ash flow from Financing	24,711	(8,807)	67,097	1,805	(588)
lon-recurring cash flows	-	-	-	-	-
ther adjustments	0	0	0	0	0
let other adjustments	0	0	0	0	0
lovement in cash	(1,299)	4,868	73,631	7,344	13,931
ree cash flow to firm (FCFF)	(21,782.24)	19,290.25	16,235.44	15,240.65	24,221.17
ree cash flow to equity (FCFE)	8,316.31	11,796.62	75,610.40	8,464.91	17,442.42
er share (THB)					
CFF per share	(3.88)	3.44	2.89	2.71	4.31
CFE per share	1.48	2.10	13.47	1.51	3.11
ecurring cash flow per share	6.39	3.45	2.78	3.88	4.89
alance Sheet (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
angible fixed asset (gross)	279,828	304,108	317,308	330,508	343,708
ess: Accumulated depreciation	(74,645)	(91,686)	(107,221)	(122,645)	(138,698)
angible fixed assets (Net)	205,182	212,423	210,087	207,863	205,011
ntangible fixed assets (Net)	0	0	0	0	0
ong-term financial assets	-	-	-	-	-
nvest. In associates & subsidiaries	0	0	0	0	0
ash & equivalents	5,578	10,447	84,078	91,421	105,352
/C receivable	37,637	34,305	30,394	33,528	33,452
nventories	70,085	62,165	55,078	60,757	60,619
other current assets	10,984	11,840	11,840	11,840	11,840
current assets	124,284	118,757	181,390	197,546	211,263
other assets	49,728	49,388	46,415	46,416	46,416
otal assets	379,195	380,568	437,892	451,826	462,690
common equity	144,838	129,712	130,706	138,901	149,764
linorities etc.	7,018	8,455	89	9,595	14,806
otal Shareholders' equity	151,855	138,167	130,795	148,496	164,570
ong term debt	93,244	105,611	171,790	171,790	171,790
ther long-term liabilities	20,395	11,828	4,169	10,135	11,897
ong-term liabilities	113,639	117,439	175,958	181,925	183,687
/C payable	57,578	61,281	54,294	59,893	59,757
hort term debt	39,899	36,413	36,413	36,413	36,413
ther current liabilities	16,223	27,268	40,431	25,100	18,263
urrent liabilities	113,700	124,962	131,139	121,405	114,433
otal liabilities and shareholders' equity	379,195	380,568	437,892	451,826	462,690
let working capital	44,904	19,762	2,586	21,132	27,891
nvested capital	299,815	281,573	259,089	275,412	279,318
Includes convertibles and preferred stock which is being	treated as debt				
er share (THB)					
aak value ner ehere	25.61	22.93	23.11	24.56	26.48
ook value per share			00.14	24.56	26.48
angible book value per share	25.61	22.93	23.11		
•	25.61	22.93	23.11		
angible book value per share	25.61 84.0	22.93 95.2	94.9	78.6	62.5
angible book value per share inancial strength				78.6 25.8	
angible book value per share inancial strength let debt/Equity (%)	84.0	95.2	94.9		22.2
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%)	84.0 33.6	95.2 34.6	94.9 28.3	25.8	22.2 1.8
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) F interest cover (x)	84.0 33.6 1.1 8.2	95.2 34.6 1.0 5.9	94.9 28.3 1.4 11.4	25.8 1.6 3.5	22.2 1.8 5.4
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) current ratio (x) F interest cover (x) aluation	84.0 33.6 1.1 8.2 2018	95.2 34.6 1.0 5.9 2019	94.9 28.3 1.4 11.4 2020E	25.8 1.6 3.5 2021E	22.2 1.8 5.4 <b>2022</b> E
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) current ratio (x) F interest cover (x) aluation lecurring P/E (x) *	84.0 33.6 1.1 8.2 2018 5.8	95.2 34.6 1.0 5.9 2019 42.0	94.9 28.3 1.4 11.4 2020E 122.5	25.8 1.6 3.5 2021E 19.3	22.2 1.8 5.4 2022E 11.6
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) current ratio (x) IF interest cover (x) aluation lecurring P/E (x) * lecurring P/E @ target price (x) *	84.0 33.6 1.1 8.2 2018 5.8 8.1	95.2 34.6 1.0 5.9 2019 42.0 58.8	94.9 28.3 1.4 11.4 2020E 122.5 171.3	25.8 1.6 3.5 2021E 19.3 27.0	22.2 1.8 5.4 2022E 11.6 16.2
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation recurring P/E (x) * recurring P/E @ target price (x) * reported P/E (x)	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5	95.2 34.6 1.0 5.9 <b>2019</b> 42.0 58.8 27.7	94.9 28.3 1.4 11.4 <b>2020E</b> 122.5 171.3 49.0	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6	22.2 1.8 5.4 2022E 11.6 16.2 10.1
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation lecurring P/E (x) * lecurring P/E @ target price (x) * leported P/E (x) ividend yield (%)	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5 1.4	95.2 34.6 1.0 5.9 2019 42.0 58.8 27.7 1.4	94.9 28.3 1.4 11.4 <b>2020E</b> 122.5 171.3 49.0 0.8	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6 2.4	22.2 1.8 5.4 2022E 11.6 16.2 10.1 3.7
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation lecurring P/E (x) * lecurring P/E @ target price (x) * leported P/E (x) ividend yield (%) trice/book (x)	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5 1.4 1.0	95.2 34.6 1.0 5.9 <b>2019</b> <b>42.0</b> <b>58.8</b> 27.7 1.4 1.1	94.9 28.3 1.4 11.4 <b>2020E</b> 122.5 171.3 49.0 0.8 1.1	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6 2.4 1.0	22.2 1.8 5.4 2022E 11.6 16.2 10.1 3.7 1.0
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation decurring P/E (x) * lecurring P/E @ target price (x) * leported P/E (x) ividend yield (%) trice/book (x) trice/tangible book (x)	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5 1.4 1.0 1.0	95.2 34.6 1.0 5.9 <b>2019</b> <b>42.0</b> <b>58.8</b> 27.7 1.4 1.1 1.1	94.9 28.3 1.4 11.4 <b>2020E</b> 122.5 171.3 49.0 0.8 1.1 1.1	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6 2.4 1.0 1.0	22.2 1.8 5.4 2022E 11.6 16.2 10.1 3.7 1.0 1.0
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation lecurring P/E (x) * lecurring P/E @ target price (x) * leported P/E (x) ividend yield (%) trice/book (x) trice/tangible book (x) V/EBITDA (x) **	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5 1.4 1.0 1.0 6.7	95.2 34.6 1.0 5.9 <b>2019</b> <b>42.0</b> <b>58.8</b> 27.7 1.4 1.1 1.1 1.1	94.9 28.3 1.4 11.4 <b>2020E</b> <b>122.5</b> <b>171.3</b> 49.0 0.8 1.1 1.1 8.2	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6 2.4 1.0 1.0 1.0 7.7	62.5 22.2 1.8 5.4 <b>2022E</b> 11.6 16.2 10.1 3.7 1.0 1.0 1.0 6.4
angible book value per share inancial strength let debt/Equity (%) let debt/total assets (%) surrent ratio (x) IF interest cover (x) aluation decurring P/E (x) * lecurring P/E @ target price (x) * leported P/E (x) ividend yield (%) trice/book (x) trice/tangible book (x)	84.0 33.6 1.1 8.2 <b>2018</b> <b>5.8</b> <b>8.1</b> 5.5 1.4 1.0 1.0	95.2 34.6 1.0 5.9 <b>2019</b> <b>42.0</b> <b>58.8</b> 27.7 1.4 1.1 1.1	94.9 28.3 1.4 11.4 <b>2020E</b> 122.5 171.3 49.0 0.8 1.1 1.1	25.8 1.6 3.5 <b>2021E</b> <b>19.3</b> <b>27.0</b> 15.6 2.4 1.0 1.0	22.2 1.8 5.4 2022E 11.6 16.2 10.1 3.7 1.0 1.0

Sources: Indorama Ventures; FSSIA estimates



### Corporate Governance report of Thai listed companies 2019

ARROW CFRESH CPI EGCO HANA ISP JT MTC PDJ PRM RATCH SCC SNC TCAP TMB TTA WACOAL VERY GOOD 28 AMARIN ASP 3GC CGH CSC	ABM APCO ATP30	AIRA BANPU CHO CSS GC HMPRO KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	AKP BAY CK DELTA GCAP ICC KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	AKR BCP CKP DEMCO GEL ICHI KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD WICE	AMA BCPG CM DRT GFPT III KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC TVO	AMATA BOL CNT DTAC GGC ILINK KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL TBU	AMATAV BRR COL DTC GOLD INTUCH KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	ANAN BTS COMAN EA GPSC IRPC KTIS MFEC OTO PR9 Q-CON SAT SENA SVI	AOT BTW CPALL EASTW GRAMMY IVL LH MINT PAP PREB QH SC SIS	AP BWG CPF ECF GUNKUL JKN LHFG MONO* PCSGH PRG QTC SCB SITHAI TASCO
CFRESH CPI EGCO HANA ISP LIT WTC PDJ PRM RATCH SCC SNC TCAP TMB TTA WACOAL VERY GOOD 28 MARIN ASP 3GC CGH CSC	CHEWA CPN GBX HARN K LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE LEVEL ABM APCO ATP30	CHO CSS GC HMPRO KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	CK DELTA GCAP ICC KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	CKP DEMCO GEL ICHI KKP MBK NSI PLANB PTT S&J SEAFCO SPRC THCOM TOP TVD	CM DRT GFPT III KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	CNT DTAC GGC ILINK KTB MC NYT POTTGC SAMART SE-ED STA THREL	COL DTC GOLD INTUCH KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	COMAN EA GPSC IRPC KTIS MFEC OTO PR9 Q-CON SAT SENA	CPALL EASTW GRAMMY IVL LH MINT PAP PREB QH SC SIS	CPF ECF GUNKUL JKN LHFG MONO* PCSGH PRG QTC SCB SITHAI
CPI EGCO HANA ISP JT MTC PDJ PRM RATCH SCC SNC TCAP TMB TTA WACOAL VERY GOOD 2S MARIN ASP 3GC CGH CSC	CPN GBX HARN K LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	CSS GC HMPRO KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	DELTA GCAP ICC KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	DEMCO GEL ICHI KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	DRT GFPT III KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	DTAC GGC ILINK KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL	DTC GOLD INTUCH KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	EA GPSC IRPC KTIS MFEC OTO PR9 Q-CON SAT SENA	EASTW GRAMMY IVL LH MINT PAP PREB QH SC SIS	ECF GUNKUL JKN LHFG MONO* PCSGH PRG QTC SCB SITHAI
EGCO HANA SP JT ATC PD J PD ATC ATC ATC ATC ATC ATC ATC ATC ATC ATC	GBX HARN K LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE LEVEL ABM APCO ATP30	GC HMPRO KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	GCAP ICC KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	GEL ICHI KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	GFPT III KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	GGC ILINK KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL	GOLD INTUCH KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	GPSC IRPC KTIS MFEC OTO PR9 Q-CON SAT SENA	GRAMMY IVL LH MINT PAP PREB QH SC SIS	GUNKUL JKN LHFG MONO* PCSGH PRG QTC SCB SITHAI
ANA SP IT DJ RM ATCH CC CAP MB TA (ACOAL ERY GOOD S MARIN SP GC GH SC	HARN K LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	HMPRO KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	ICC KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	ICHI KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	III KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	ILINK KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL	INTUCH KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	IRPC KTIS MFEC OTO PR9 Q-CON SAT SENA	IVL LH MINT PAP PREB QH SC SIS	JKN LHFG MONO* PCSGH PRG QTC SCB SITHAI
SP T T T C DJ R M ATCH C C C A C C A C C A C A C C A P M B T A C C C A P M B T A C C A P M B T A C C C A D M B T A C C C C A C C C C C C C C C C C C C	K LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE DLEVEL ABM APCO ATP30	KBANK MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL	KTC MCOT OISHI PPS PYLON SAMTEL SELIC STEC	KTIS MFEC OTO PR9 Q-CON SAT SENA	LH MINT PAP PREB QH SC SIS	LHFG MONO* PCSGH PRG QTC SCB SITHAI
SP IT ITC DJ RM ATCH CC NC CAP MB TA /ACOAL ERY GOOD S MARIN SP GC GC GH SC	LPN NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	MAKRO NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	KCE MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	KKP MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	KSL MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	KTB MC NYT PORT PTTGC SAMART SE-ED STA THREL	MCOT OISHI PPS PYLON SAMTEL SELIC STEC	MFEC OTO PR9 Q-CON SAT SENA	MINT PAP PREB QH SC SIS	MONO* PCSGH PRG QTC SCB SITHAI
IT ITC DJ RM ATCH CC NC CAP MB TA /ACOAL <b>FERY GOOD</b> S MARIN SP GC GC SC	NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	MALEE NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	MBK NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	MBKET NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	MC NYT PORT PTTGC SAMART SE-ED STA THREL	MCOT OISHI PPS PYLON SAMTEL SELIC STEC	MFEC OTO PR9 Q-CON SAT SENA	PAP PREB QH SC SIS	PCSGH PRG QTC SCB SITHAI
ITC DJ RM KATCH CC NC CCAP MB TA VACOAL <b>/ERY GOOD</b> S MARIN SP GC GC GCH SSC	NCH PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	NCL PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	NKI PJW PTG S SDC SPI THANI TOA TU WHAUP	NSI PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	NVD PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	NYT PORT PTTGC SAMART SE-ED STA THREL	OISHI PPS PYLON SAMTEL SELIC STEC	OTO PR9 Q-CON SAT SENA	PAP PREB QH SC SIS	PCSGH PRG QTC SCB SITHAI
DJ RM (ATCH CC NC CAP MB TA (ACOAL (ERY GOOD S MARIN SP GC GC GC SC	PG PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	PHOL PSL RS SCN SPALI THANA TNDT TTW WHA	PJW PTG S SDC SPI THANI TOA TU WHAUP	PLANB PTT S & J SEAFCO SPRC THCOM TOP TVD	PLANET PTTEP SABINA SEAOIL SSSC THIP TRC	PORT PTTGC SAMART SE-ED STA THREL	PPS PYLON SAMTEL SELIC STEC	PR9 Q-CON SAT SENA	PREB QH SC SIS	PRG QTC SCB SITHAI
RM ATCH CC NC CAP MB TA /ACOAL /COAL /COAL S MARIN SP GC GC GH SC	PSH ROBINS** SCCC SORKON THAI TMILL TTCL WAVE <b>LEVEL</b> ABM APCO ATP30	PSL RS SCN SPALI THANA TNDT TTW WHA	PTG S SDC SPI THANI TOA TU WHAUP	PTT S & J SEAFCO SPRC THCOM TOP TVD	PTTEP SABINA SEAOIL SSSC THIP TRC	PTTGC SAMART SE-ED STA THREL	PYLON SAMTEL SELIC STEC	Q-CON SAT SENA	QH SC SIS	QTC SCB SITHAI
ATCH CC NC CAP MB TA /ACOAL <b>ERY GOOD</b> S MARIN SP GC GH SC	ROBINS** SCCC SORKON THAI TMILL TTCL WAVE LEVEL ABM APCO ATP30	RS SCN SPALI THANA TNDT TTW WHA ADB	S SDC SPI THANI TOA TU WHAUP	S & J SEAFCO SPRC THCOM TOP TVD	SABINA SEAOIL SSSC THIP TRC	SAMART SE-ED STA THREL	SAMTEL SELIC STEC	SAT SENA	SC SIS	SCB SITHAI
CC NC CAP MB TA VACOAL <b>/ERY GOOD</b> S MARIN SP GC GC GC GC SC	SCCC SORKON THAI TMILL TTCL WAVE LEVEL ABM APCO ATP30	SCN SPALI THANA TNDT TTW WHA ADB	SDC SPI THANI TOA TU WHAUP	SEAFCO SPRC THCOM TOP TVD	SEAOIL SSSC THIP TRC	SE-ED STA THREL	SELIC STEC	SENA	SIS	SITHAI
NC CAP MB TA VACOAL <b>ERY GOOD</b> S MARIN SP GC GC GC GC	SORKON THAI TMILL TTCL WAVE DEVEL ABM APCO ATP30	SPALI THANA TNDT TTW WHA ADB	SPI THANI TOA TU WHAUP	SPRC THCOM TOP TVD	SSSC THIP TRC	STA THREL	STEC			
CAP MB TA VACOAL ERY GOOD S MARIN SP GC GC GC GC SC	THAI TMILL TTCL WAVE DEVEL ABM APCO ATP30	THANA TNDT TTW WHA ADB	THANI TOA TU WHAUP	THCOM TOP TVD	THIP TRC	THREL				
MB TA VACOAL <b>/ERY GOOD</b> S MARIN SP GC GC GC SC	TMILL TTCL WAVE DLEVEL ABM APCO ATP30	TNDT TTW WHA ADB	toa Tu Whaup	TOP TVD	TRC			TISCO	SYNTEC	TKT
TA VACOAL (ERY GOOD S MARIN SP GC GC SC	TTCL WAVE DLEVEL ABM APCO ATP30	TTW WHA ADB	TU WHAUP	TVD			TIP		TK	
VACOAL VERY GOOD S MARIN SP GC GC SC	WAVE DLEVEL ABM APCO ATP30	WHA ADB	WHAUP		TVO	TRU	TRUE	TSC	TSR	TSTH
ERY GOOD S MARIN SP GC GH SC	ABM APCO ATP30	ADB		WICE		U	UAC	UV	VGI	VIH
S MARIN SP GC GH SC	ABM APCO ATP30				WINNER					
MARIN SP GC GH SC	APCO ATP30									
SP GC GH SC	ATP30		AF	AGE	AH	AHC	AIT	ALLA	ALT	AMANAH
GC GH SC		APCS	AQUA	ARIP	ASAP	ASIA	ASIAN	ASIMAR	ASK	ASN
CGH CSC	DOD	AUCT	AYUD	В	BA	BBL	BDMS	BEC	BEM	BFIT
SC	BGRIM	BIZ	BJC	BJCHI	BLA	BPP	BROOK	CBG	CEN	CENTEL
	CHG	CHOTI	CHOW	CI	CIMBT	CNS	COLOR	COM7	COTTO	CRD
	CSP	DCC	DCON	DDD	DOD	EASON	ECL	EE	EPG	ERW
STAR	ETE	FLOYD	FN	FNS	FORTH	FPI	FPT	FSMART	FSS	FVC
	GJS	GL	GLOBAL	GLOW**	GULF	HPT	HTC	HYDRO	ICN	IFS
	INSURE	IRC	IRCP	IT	ITD***	ITEL	J	JAS*	JCK	JCKH
	JMT	JWD	KBS	KCAR	KGI	KIAT	KOOL	KWC	KWM	L&E
	LANNA	LDC	LHK	LOXLEY	LRH	LST	M	MACO	MAJOR	MBAX
	METCO	MFC	MK	MODERN	MOONG	MPG	MSC	MTI	NEP	NETBAY
	NINE	NOBLE	NOK	NTV	NWR	OCC	OGC	ORI	OSP	PATO
	PDG					PPP				
		PDI	PL	PLAT	PM		PRECHA	PRIN	PRINC	PSTC
	QLT	RCL	RICHY	RML	RWI	S11	SAAM	SALEE	SAMCO	SANKO
	SAWAD	SCG	SCI	SCP	SE	SFP	SIAM	SINGER	SIRI	SKE
	SKY	SMIT	SMK	SMPC	SMT	SNP	SONIC	SPA	SPC	SPCG
	SR	SRICHA	SSC	SSF	SST	STANLY	STPI	SUC	SUN	SUSCO
	SWC	SYMC	SYNEX	Т	TACC	TAE	TAKUNI	TBSP	TCC	TCMC
EAM	TEAMG	TFG	TFMAMA	THG	THRE	TIPCO	TITLE	TIW	TKN	TKS
M	TMC	TMD	TMI	TMT	TNITY	TNL	TNP	TNR	TOG	TPA
PAC	TPBI	TPCORP	TPOLY	TRITN	TRT	TSE	TSTE	TVI	TVT	TWP
WPC	UBIS	UEC	UMI	UOBKH	UP	UPF	UPOIC	UT	UWC	VNT
VIIK	хо	YUASA	ZEN	ZMICO						
OOD LEVE	L									
	ABICO	ACAP***	AEC	AEONTS	AJ	ALUCON	AMC	APURE	AS	ASEFA
	B52	BCH	BEAUTY	BGT	BH	BIG	BLAND	BM	BR	BROCK
	BSM	BTNC	CCET	CCP	CGD	CHARAN	CHAYO	CITY	CMAN	CMC
	CMR	CPL	CPT	CSR	CTW	CWT	D	DIMET	EKH	EMC
	ESSO	FE	FTE	GIFT	GLAND	GLOCON	GPI	GREEN	GTB	GYT
	HUMAN	IHL	INGRS	INOX	JTS	JUBILE	KASET	KCM	KKC	KWG
	LEE	LPH	MATCH	MATI	M-CHAI	MCS	MDX	META	MGT	MJD
	MVP	NC	NDR	NER	NNCL	NPK	NUSA	OCEAN	PAF	PF
	PIMO	PK	PLE	PMTA	POST	PPM	PROUD	PTL	RCI	RJH
	RPC	RPH	SF	SGF	SGP	SKN	SLP	SMART	SOLAR	SPG
	SSP	STI	SUPER	SVOA	TCCC	THE	THMUI	TIC	TIGER	TNH
	TPCH	TPIPP	TPLAS	TQM	TTI	TYCN	UTP	VCOM	VIBHA	VPO
/IN	WORK	WP	WPH	ZIGA						
	Score Ra	ange		1	Number of Lo	ogo		Ľ	Description	
	90-10	0							Excellent	
	80-89					añ 19			Very Good	
	70-79								Good	
	60-69								Satisfactory	
	50-59 Less that				A No logo giver				Pass	

#### 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.

\* 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**

CERTIFIED										
ADVANC	AIE	AKP	AMANAH	AP	APCS	AQUA	ARROW	ASK	ASP	AYUD
BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG	BGRIM	BJCHI	BKI	BLA
BROOK	BRR	BSBM	BTS	BWG	CEN	CENTEL	CFRESH	CGH	CHEWA	CIG
CIMBT	СМ	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FSS	GBX	GC
GCAP	GEL	GFPT	GGC	GJS	GOLD	GPSC	GSTEEL	GUNKUL	HANA	HARN
HMPRO	HTC	ICC	IFS	INET	INSURE	INTUCH	IRPC	IVL	К	KASET
KBANK	KBS	KCAR	KCE	KGI	KKP	KSL	KTB	ктс	KWC	L&E
LANNA	LHK	LPN	LRH	М	MAKRO	MALEE	MBAX	MBK	MBKET	MC
MCOT	MFC	MINT	MONO	MOONG	MSC	MTI	NBC	NINE	NKI	NMG
NNCL	NSI	OCC	OCEAN	OGC	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPS
PREB	PRG	PRINC	PSH	PSTC	PT	PTG	PTT	PTTEP	PTTGC	PYLON
Q-CON	QH	QLT	QTC	RATCH	RML	S & J	SABINA	SAT	SC	SCB
SCC	SCCC	SCG	SCN	SE-ED	SELIC	SENA	SGP	SIRI	SIS	SITHAI
SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK	SPC	SPI	SPRC	SRICHA
SSF	SSI	SSSC	SST	STA	SUSCO	SVI	SYNTEC	TASCO	TCAP	TFG
TFI	TFMAMA	THANI	THCOM	THIP	THRE	THREL	TIP	TIPCO	TISCO	ткт
ТМВ	TMD	TMILL	TMT	TNITY	TNL	TNP	TNR	TOG	TOP	TPA
TPCORP	TRU	TRUE	TSC	TSTH	TTCL	TU	TVD	TVI	TWPC	U
UBIS	UEC	UKEM	UOBKH	VGI	VIH	VNT	WACOAL	WHA	WICE	WIIK
DECLARED										
2S	ABICO	AF	AI	AIRA	ALT	AMA	AMARIN	AMATA	ANAN	В
BM	BPP	BUI	CHG	СНО	CHOTI	CHOW	CI	CMC	COL	DDD
DELTA	EFORL	EPCO	ESTAR	ETE	FPI	FTE	ICHI	INOX	IRC	ITEL
JAS	JSP	JTS	KWG	LDC	LIT	META	MFEC	MPG	NEP	NOK
NWR	ORI	PRM	PSL	ROJNA	RWI	SAAM	SAPPE	SCI	SEAOIL	SHANG
SKR	SPALI	STANLY	SYNEX	TAE	TAKUNI	TMC	TOPP	TPP	TRITN	TVO
UV	UWC	WHAUP	XO	YUASA	ZEN					

### 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

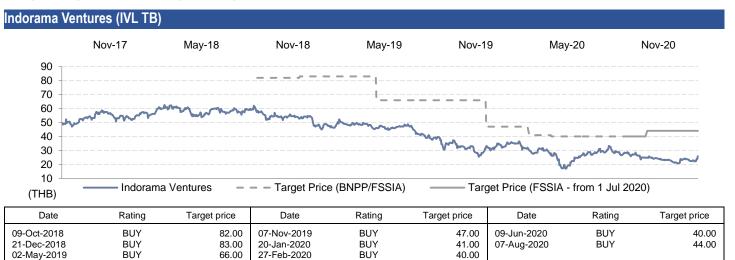
#### Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

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#### History of change in investment rating and/or target price



BUY

40.00

Suwat Sinsadok started covering this stock from 09-Oct-2018

66 00

Price and TP are in local currency

Source: FSSIA estimates

02-Mav-2019

### IRPC PCL (IRPC TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
09-Oct-2018	BUY	8.80	13-Feb-2019	BUY	8.80	14-Feb-2020	BUY	4.20

Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates



# PTT Global Chemical (PTTGC TB)



Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates

#### Siam Cement (SCC TB)



Suwat Sinsadok started covering this stock from 14-Oct-2020

Price and TP are in local currency

Source: FSSIA estimates

### Eastern Polymer Group (EPG TB)



Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Indorama Ventures	IVL TB	THB 25.75	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.
IRPC PCL	IRPC TB	THB 2.16	BUY	Key risks to our positive view and EV/EBITDA-based target price are weaker-than- expected oil product demand growth and lower-than-expected PP-naphtha and SM- benzene margins.
PTT Global Chemical	PTTGC TB	THB 44.25	BUY	The key downside risks to our EV/EBITDA-based TP are the weaker-than-expected HDPE price and HDPE-naphtha margin.
Siam Cement	SCC TB	THB 350.00	BUY	Downside risks to our call include 1) a lower-than-expected demand for chemicals, CBM, and packaging; 2) rising coal costs for its cement and packaging units; and 3) weaker demand from the automobile industry that could erode the demand for SCC's chemical unit and its dividend contributions.
Eastern Polymer Group	EPG TB	THB 5.40	BUY	Downside risks to our EV/EBITDA-based target price include 1) a sharp rise in feedstock prices, driven mostly by a higher oil price; and 2) lower-than-expected demand for plastics used for insulators and the automobile and packaging industries.

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 05-Nov-2020 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.