# 22 DECEMBER 2020 THAILAND / OIL & GAS

# IRPC PCL IRPC TB





# การ Turnaround กำลังจะเกิดขึ้นในไม่ช้า

# การ Turnaround กำลังจะเกิดขึ้นในไม่ช้า

หลังจากเผชิญกับส่วนต่างผลิตภัณฑ์รวม (GIM) ที่ตกต่ำอันเนื่องมาจากค่าการกลั่นตามราคา ตลาด (Market GRM) และผลขาดทุนจากสต็อกจำนวนมาก เราเชื่อว่า IRPC จะกลับมามีกำไร ปกติตั้งแต่ 4Q20 เป็นต้นไป จาก 1) ส่วนต่างผลิตภัณฑ์ปิโตรเคมีที่ปรับขึ้นอย่างโดดเด่น โดยเฉพาะสายสไตรีน เช่น Acrylonitrile butadiene styrene (ABS), polystyrene (PS) และ expanded polystyrene (EPS) รวมถึงส่วนต่างผลิตภัณฑ์โอเลฟินส์-แนฟทา ซึ่งส่วนใหญ่ได้แก่ Polypropylene (PP) และ 2) ค่าการกลั่นตามราคาตลาด (Market GRM) ที่จะปรับตัวดีขึ้นใน 1Q21

### ส่วนต่างผลิตภัณฑ์ปิโตรเคมีคือหัวใจ

จากปัจจัยกระตุ้น 3 ประการได้แก่ การเติบโตของปริมาณขาย การเพิ่มขึ้นของส่วนต่างกำไร และตันทุนที่ลดต่ำลง ซึ่งจะเป็นปัจจัยผลักดันให้ IRPC พลิกกลับเป็นกำไรได้ในปี 2021-22 เรา คิดว่าส่วนต่างผลิตภัณฑ์ปิโตรเคมีเป็นปัจจัยขับเคลื่อนที่สำคัญที่สุด ในขณะที่ผลิตภัณฑ์ Polyethylene (PE) มีสัดส่วนใน EBITDA เล็กน้อยเพียง 5% ในปี 2019 เราคิดว่าส่วนต่าง ผลิตภัณฑ์ PE-แนฟทา ที่ทรงตัวได้ดี ประกอบกับส่วนต่าง PP-แนฟทาที่แข็งแกร่ง จะช่วยหนุน GIM สายโอเลฟินส์ได้ USD4-5/บาร์เรล ในปี 2021-22 โดยได้อานิสงส์จากความต้องการสินค้า บรรจุภัณฑ์ที่เพิ่มขึ้นตามสินค้าที่เกี่ยวกับสุขอนามัยอันเป็นผลมาจากการแพร่ระบาดของ COVID-19

# เป็นตัวเลือกที่ดีที่สุดสำหรับอัตรากำไรที่แข็งแกร่งของผลิตภัณฑ์สายสไตรีน

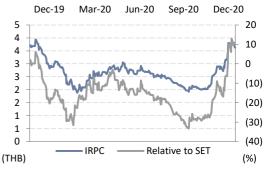
IRPC เป็นผู้ได้รับประโยชน์มากที่สุดในบรรดาผู้ผลิตสินค้าปิโตรเคมีทั้งหมดสำหรับผลิตภัณฑ์ส ไตรีน เนื่องจาก EBITDA จากผลิตภัณฑ์สายเบนซีน (ABS, PS และ EPS) มีสัดส่วน 15-20% ของ EBITDA ทั้งหมดในปี 2019 ซึ่งส่วนต่าง (GIM) ของผลิตภัณฑ์สายอะโรเมติกส์เบนซีนของ IRPC ได้ปรับขึ้นแล้วจาก USD1.22/บาร์เรลใน 1Q20 เป็น USD2.15/บาร์เรลใน 3Q20 และเรา คาดว่า GIM ของอะโรเมติกส์จะปรับขึ้นเป็น USD2.5-3.0/บาร์เรลใน 4Q20 เพราะส่วนต่าง ผลิตภัณฑ์ที่สูงขึ้นมากของ ABS, PS และ EPS-แนฟทา

# ยังคงแนะนำซื้อ ปรับราคาเป้าหมายขึ้นเป็น 5.3 บาท

เรายังคงแนะนำซื้อ และปรับราคาเป้าหมายขึ้นจาก 4.2 บาทซึ่งอิง 7.8x 2020E EV/EBITDA เป็น 5.3 บาทอิง 9x 2021E EV/EBITDA ซึ่งยังต่ำกว่าค่าเฉลี่ยย้อนหลัง 11 ปีของ IRPC สะท้อนแนวโน้ม Market GRM ที่ยังอ่อนแอ เราเชื่อว่าราคาหุ้น IRPC ปัจจุบันที่ซื้อขายที่ 4.8-7.2x 2021-22E EV/EBITDA และ 0.8-0.9x 2021-2022 P/BV ยังคงน่าสนใจแม้ว่าราคาหุ้นจะ ปรับขึ้นแรงในช่วงไม่นานที่ผ่านมา เนื่องจากเราคาดว่าผลประกอบการของ IRPC จะพลิกเป็น กำไรในปี 2021-22

# **KEY STOCK DATA**

Revenue         239,315         195,659         244,442         255,150           Net profit         (1,174)         (6,808)         5,261         11,111           EPS (THB)         (0.06)         (0.33)         0.26         0.54           vs Consensus (%)         -         nm         113.1         205.1           EBITDA         4,231         12,458         19,114         28,418           Core net profit         (1,174)         (6,808)         5,261         11,111           Core EPS (THB)         (0.06)         (0.33)         0.26         0.54           Chg. In EPS est. (%)         nm         nm         nm         111.2           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0           ROE (%)         (1.4)         (8.6)	YE Dec (THB m)	2019	2020E	2021E	2022E
EPS (THB)         (0.06)         (0.33)         0.26         0.54           vs Consensus (%)         -         nm         113.1         205.1           EBITDA         4,231         12,458         19,114         28,418           Core net profit         (1,174)         (6,808)         5,261         11,111           Core EPS (THB)         (0.06)         (0.33)         0.26         0.54           Chg. In EPS est. (%)         nm         nm         nm         111.2           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	Revenue	239,315	195,659	244,442	255,150
vs Consensus (%)         -         nm         113.1         205.1           EBITDA         4,231         12,458         19,114         28,418           Core net profit         (1,174)         (6,808)         5,261         11,111           Core EPS (THB)         (0.06)         (0.33)         0.26         0.54           Chg. In EPS est. (%)         nm         nm         (0.7)           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	Net profit	(1,174)	(6,808)	5,261	11,111
EBITDA 4,231 12,458 19,114 28,418 Core net profit (1,174) (6,808) 5,261 11,111 Core EPS (THB) (0.06) (0.33) 0.26 0.54 Chg. In EPS est. (%) nm nm (39.2) (0.7) EPS growth (%) nm nm nm 111.2 Core P/E (x) (63.0) (10.9) 14.1 6.7 Dividend yield (%) 2.8 1.4 3.6 7.5 EV/EBITDA (x) 30.7 11.7 7.2 4.8 Price/book (x) 0.9 1.0 0.9 0.8 Net debt/Equity (%) 67.1 96.1 79.6 70.0	EPS (THB)	(0.06)	(0.33)	0.26	0.54
Core net profit         (1,174)         (6,808)         5,261         11,111           Core EPS (THB)         (0.06)         (0.33)         0.26         0.54           Chg. In EPS est. (%)         nm         nm         (0.7)           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	vs Consensus (%)	-	nm	113.1	205.1
Core EPS (THB)         (0.06)         (0.33)         0.26         0.54           Chg. In EPS est. (%)         nm         nm         (0.7)           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	EBITDA	4,231	12,458	19,114	28,418
Chg. In EPS est. (%)         nm         nm         nm         (39.2)         (0.7)           EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	Core net profit	(1,174)	(6,808)	5,261	11,111
EPS growth (%)         nm         nm         nm         111.2           Core P/E (x)         (63.0)         (10.9)         14.1         6.7           Dividend yield (%)         2.8         1.4         3.6         7.5           EV/EBITDA (x)         30.7         11.7         7.2         4.8           Price/book (x)         0.9         1.0         0.9         0.8           Net debt/Equity (%)         67.1         96.1         79.6         70.0	Core EPS (THB)	(0.06)	(0.33)	0.26	0.54
Core P/E (x)       (63.0)       (10.9)       14.1       6.7         Dividend yield (%)       2.8       1.4       3.6       7.5         EV/EBITDA (x)       30.7       11.7       7.2       4.8         Price/book (x)       0.9       1.0       0.9       0.8         Net debt/Equity (%)       67.1       96.1       79.6       70.0	Chg. In EPS est. (%)	nm	nm	(39.2)	(0.7)
Dividend yield (%)       2.8       1.4       3.6       7.5         EV/EBITDA (x)       30.7       11.7       7.2       4.8         Price/book (x)       0.9       1.0       0.9       0.8         Net debt/Equity (%)       67.1       96.1       79.6       70.0	EPS growth (%)	nm	nm	nm	111.2
EV/EBITDA (x)       30.7       11.7       7.2       4.8         Price/book (x)       0.9       1.0       0.9       0.8         Net debt/Equity (%)       67.1       96.1       79.6       70.0	Core P/E (x)	(63.0)	(10.9)	14.1	6.7
Price/book (x) 0.9 1.0 0.9 0.8  Net debt/Equity (%) 67.1 96.1 79.6 70.0	Dividend yield (%)	2.8	1.4	3.6	7.5
Net debt/Equity (%) 67.1 96.1 79.6 70.0	EV/EBITDA (x)	30.7	11.7	7.2	4.8
	Price/book (x)	0.9	1.0	0.9	0.8
ROE (%) (1.4) (8.6) 6.9 13.4	Net debt/Equity (%)	67.1	96.1	79.6	70.0
	ROE (%)	(1.4)	(8.6)	6.9	13.4



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	38.0	76.6	6.2
Relative to country (%)	27.0	53.5	12.0
Mkt cap (USD m)			2,591
3m avg. daily turnover (USD m)			21.5
Free float (%)			52
Major shareholder		PTT	Plc. (48%)
12m high/low (THB)			4.02/1.76
Issued shares (m)			20,434.42

Sources: Bloomberg consensus; FSSIA estimates



Suwat Sinsadok suwat.sin@fssia.com +66 2611 3558 Siriluck Pinthusoonthorn

siriluck.pin@fssia.com +66 2611 3562

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

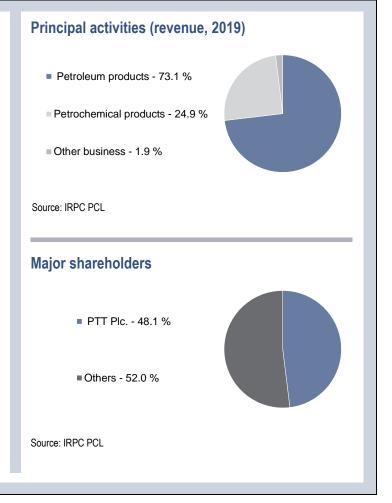
#### Investment thesis

We think IRPC's gross integrated margin will be driven by its upstream hygiene and value-added (UHV) unit, a higher refinery utilisation rate, and a favourable petrochemical product margin. With most of IRPC's upgrading and capacity expansion projects completed in 2017, we project the company's earnings to expand over 2021-22, led by: 1) y-y higher volumes for its refinery, aromatics and lube units due to the absence of major planned shutdowns; and 2) a market GRM recovery on the back of our projected diesel-Dubai spread recovery.

# Company profile

IRPC is a fully integrated refinery and naphtha-based petrochemical producer. The company was founded in 1978 and listed in 1995.

www.irpc.co.th



# **Catalyst**

Rising margins of PP-naphtha, SM and ABS-benzene, and market GRM are key potential earnings drivers for IRPC.

#### Risk to our call

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.

# **Event calendar**

Date	Event
Feb 2021	4Q20/2020 results announcement

# **Key assumptions**

	2020E	2021E	2022E
Oil price (USD/bbl)	44	52	50
Olefin utilisation rate (%)	92	93	94
Refinery utilisation rate (%)	90	96	97
Market GRM (USD/bbl)	(0.7)	1.7	4.8
Market GIM (USD/bbl)	8.6	11.8	14.9
HDPE-naphtha (USD/t)	590	473	532
PP-naphtha (USD/t)	620	573	632

Source: FSSIA estimates

# **Earnings sensitivity**

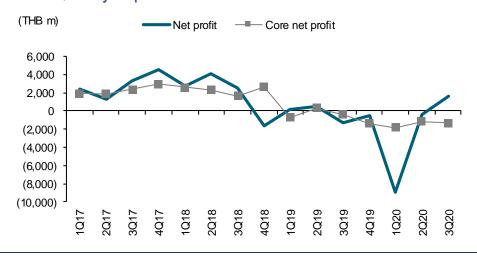
- For every 1% increase in avg. Dubai oil price, we project 2021 earnings to rise 1.4%, and vice versa, all else being equal.
- For every 1% increase in market GRM, we estimate 2021 earnings to rise 1.2%, and vice versa, all else being equal.
- Stability in crude oil price, rising diesel cracks and low crude premiums are key for earnings growth.

Source: FSSIA estimates

### A turnaround on the horizon

After suffering from a poor market GIM, mainly as a result of the depressed market GRM and large inventory losses, we believe IRPC's quarterly results could turn profitable in 4Q20 onward. We expect this to be backed by 1) continued strong petrochemical product margins, particularly the styrene chain, which includes ABS, PS, and EPS, and the olefins-naphtha margins, mainly PP; and 2) an improving market GRM from its depressed level by 1Q21.

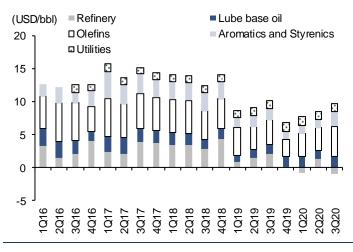
**Exhibit 1: Quarterly net profits** 



Sources: IRPC; FSSIA estimates

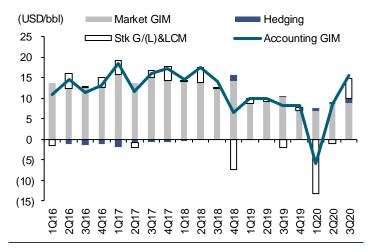
However, we expect IRPC's 4Q20 net profit to remain weak due to the THB1.7b one-time severance payment expense booked for the early retirement of employees, for which the company expects to cut costs by THB0.5b-1.0b annually starting in 2021 onward. We think that starting in 1Q21, IRPC could see a meaningful net profit turnaround driven by a market GRM recovery, sustained solid petrochemical margins, and lower operating costs from the lower number of employees. We project the staff reduction to lower IRPC's OPEX by USD0.2-0.5/bbl in 2021-24.

Exhibit 2: Quarterly net profit breakdown



Source: IRPC

Exhibit 3: Market GIM, hedging gain (loss), stock gain (loss) and lower of cost or market (LCM), and accounting GIM



Source: IRPC

We see three catalysts – volume growth, margin expansion, and lower cost - to drive IRPC's net profit turnaround in 2021-22.

**Sales volume growth.** In 2020, IRPC has suffered from multiple planned shutdowns of its refinery and petrochemical units. However, in 1Q21, IRPC has a small number of planned shutdowns, including a one-month shutdown of its upgrading HYVAHL unit, but we think the impact will be small and hence project IRPC's refinery utilisation rate to rise from 193kbpd, or 90%, to 206kbpd, or 96%, in 2021 and 208kbpd, or 97%, in 2022.

Other production units, including lube, aromatics, and olefins, are expected to remain high in 2021-22 at 86% for aromatics, 93% for olefins, and 95% for lube, thanks to the projected demand recoveries once the COVID vaccines have been successfully implemented, based on our estimate.

Exhibit 4: IRPC's utilisation

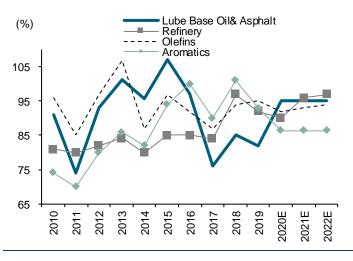
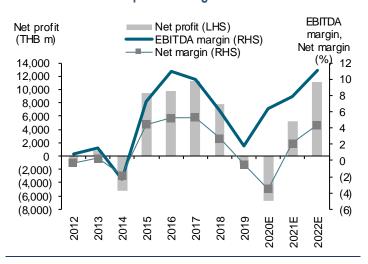


Exhibit 5: IRPC's net profit & margin

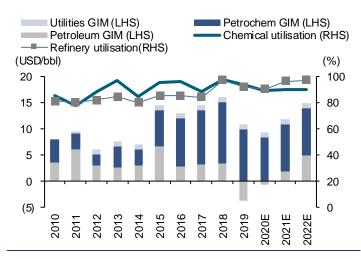


Sources: IRPC; FSSIA estimates

Sources: IRPC; FSSIA estimates

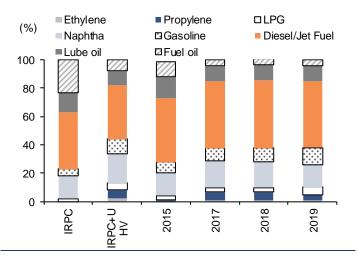
We now project that IRPC will post a net loss of THB6.8b in 2020 due to the weak GIM, planned shutdowns and large inventory losses. However, we forecast IRPC's net profit to turn around and rebound sharply by 2Q21, driven by continued strong petrochemical product margins, an improving market GIM, and higher production volumes.

Exhibit 6: IRPC's projected GIM



Sources: IRPC; FSSIA estimates

Exhibit 7: IRPC's refinery product yield pre- and post-UHV



Sources: IRPC; FSSIA estimates

# Margin expansion underway

In 2019-20, IRPC suffered from a depressed GRM, which plunged from USD13.6/bbl in 2018 to USD9.3/bbl in 2019 and USD1.38/bbl in 9M20, down from 2.67/bbl in 9M19. The key drag was the depressed refinery GRM, which dropped to a negative USD0.17/bbl in 9M20, down from USD1.46/bbl in 9M19.

Exhibit 8: Petroleum GIM collapsed in 9M20 due to the sharp drop in refinery GRM

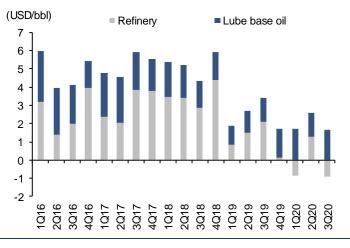
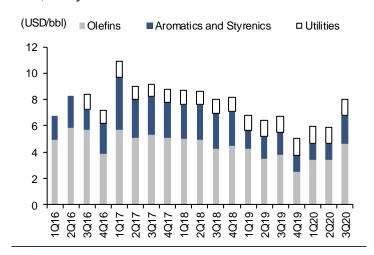


Exhibit 9: Petrochemical GIM recovered from the bottom in 4Q19, led by olefins GIM



Source: IRPC Source: IRPC

Petrochemical products: from the weakest link in 2019 to stronger products in 2020. However, IRPC's petrochemical GIM remained highly resilient, staying above USD5/bbl in 2019-9M20, backed by the olefins margin recovery since bottoming in 4Q19. In 3Q20, the aromatics unit's margin, led by ABS and PS, started to improve, driven by the tight supply and strong demand recovery.

Exhibit 10: Key product margins

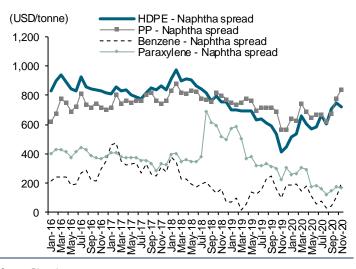
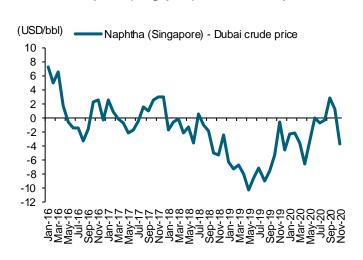


Exhibit 11: Naphtha (Singapore) – Dubai crude price



Source: Bloomberg Source: Bloomberg

The margins of two olefins products – PP (1/3 of IRPC's EBITDA) and PE (5%) – over the naphtha cost have continued to strengthen, rising since 4Q19, even during the global lockdowns as a result of the COVID-19 outbreak.

We believe the PP-naphtha margin is likely to sustain at over USD600/t in 2021-22, even with the upcoming new supply of PP thanks to the strong demand for PP for the packaging and automotive industries and the weak naphtha cost. The naphtha cost has currently declined to a USD4/bbl discount to the Dubai crude oil price, down from a premium of USD2/bbl in 3Q20, due to the new supply influx from China.

Exhibit 12: Polypropylene additional capacity

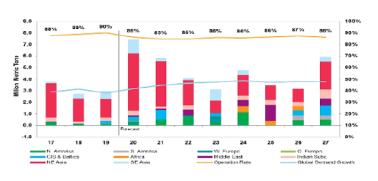
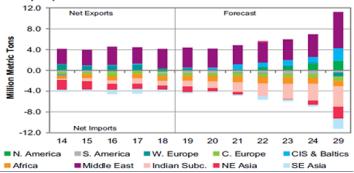


Exhibit 13: Regional polypropylene net trade

Mainly export from ME to Asia



Source: IRPC Source: IRPC

According to IRPC, the global PP plant operating rate is projected to decline from 90% in 2019 to 86% in 2020, and could flatten at 85-86% for the next seven years from 2021-27, thanks to the relative balance between new demand and supply. In addition, the consumption per capita of PP globally is projected to rise post-COVID-19, because PP applications for packaging should increase substantially, based on IRPC's estimate. We think that both the olefins-naphtha and PE-naphtha margins will remain strong in 2021-22, in the range of USD500-600/t for ethylene and USD500-700/t for PE.

Exhibit 14: Polypropylene world operating rate

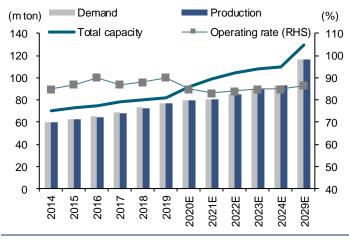
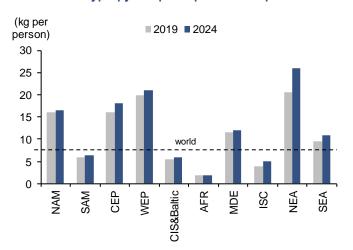
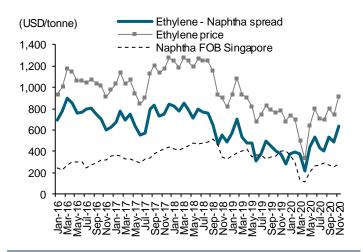


Exhibit 15: Polypropylene per capita consumption



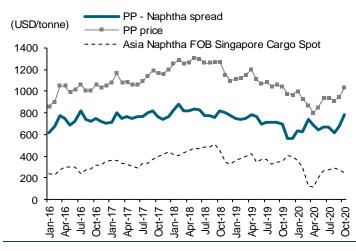
Source: IRPC Source: IRPC

# Exhibit 16: Naphtha spread - Ethylene



Source: Bloomberg

Exhibit 18: Naphtha spread - PP



While PE products contributed small EBITDA to IRPC at 5% in 2019, we think the resilient PE-naphtha margin, combined with a strong PP-naphtha margin, could help support IRPC's olefins GIM at USD4-5/bbl in 2021-22, thanks to the rising demand for packaging caused by the high consumption of hygienic products after the global

Source: Bloomberg

COVID-19 outbreak.

Exhibit 20: Naphtha spread – HDPE

(USD/tonne)

HDPE - Naphtha spread

HDPE price

Asia Naphtha FOB Singapore Cargo Spot

1,400

1,200

1,000

800

400

200

0 91-10

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

1,000

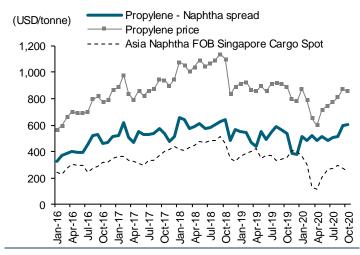
1,000

1,000

1,0

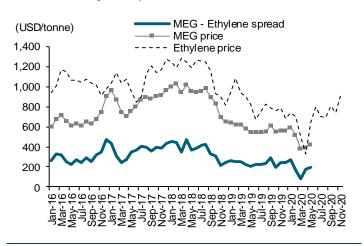
Source: Bloomberg

Exhibit 17: Naphtha spread - Propylene



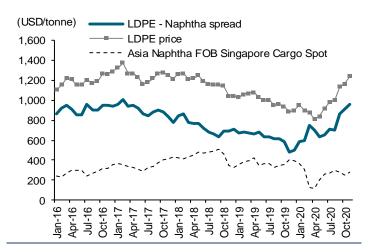
Source: Bloomberg

Exhibit 19: Ethylene spread – MEG



Source: Bloomberg

Exhibit 21: Naphtha spread – LDPE



Source: Bloomberg

Exhibit 22: Global ethylene capacity addition by feedstock

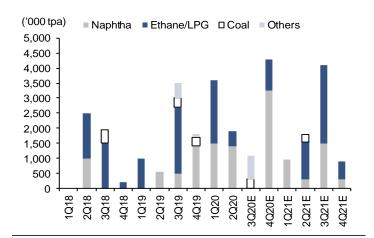
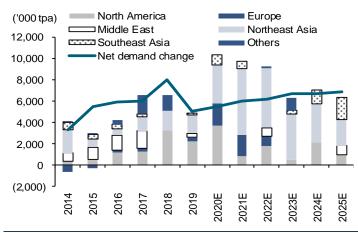


Exhibit 23: Global ethylene supply vs demand growth



Source: Extracted from PTTGC's investor presentation

Source: Extracted from PTTGC's investor presentation

**Upsides from benzene products in 2021.** Since Jul-20, the margins of IRPC's downstream benzene-chain products have all jumped markedly, led by ABS-naphtha which surged from USD1,000/t in Apr-20 to USD1,900/t in Nov-20. Similarly, the PS-naphtha margin rose from USD800/t in Apr-20 to USD1,350/t in Nov-20.

Exhibit 24: Naphtha spread – ABS

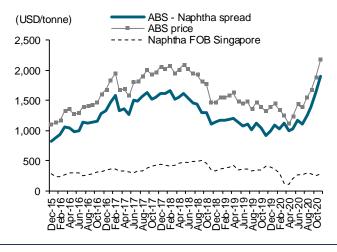
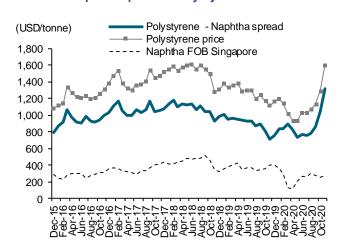


Exhibit 25: Naphtha spread – Polystyrene



Source: Bloomberg

Source: Bloomberg

IRPC is the largest beneficiary of styrene products among Thai petrochemical producers, with EBITDA from benzene-chain products (ABS, PS, and EPS) accounting for 15-20% of total EBITDA in 2019. The GIM of IRPC's aromatics benzene chain has already risen from USD1.22/bbl in 1Q20 to USD2.15/bbl in 3Q20, and we project the aromatics GIM to rise to USD2.5-3.0/bbl in 4Q20, driven by the sharp rise in ABS, PS, and EPS-naphtha margins.

Exhibit 26: Capacity comparison of benzene and derivatives

Benzene capacity	ТОР	PTTGC	IRPC	Unit
Capacity	0.26	0.70	0.14	mtpa
Production	0.25	0.60	0.14	mtpa
Internal consumption	0.04	0.42	0.14	mtpa
External sales	0.21	0.18	0.00	mtpa
Downstream capacity				
Linear Alkyl Benzene (LAB)	0.10			mtpa
Phenol		0.91		mtpa
Styrene Monomer (SM)			0.26	mtpa
Acrylonitrile Butadiene Styrene (ABS)			0.18	mtpa
Polystyrene (PS)			0.11	mtpa

Source: IRPC

**Expect a high, sustained GIM for aromatics products in 2021.** We project that IRPC should see a GIM of USD2-3/bbl in 2021-22, given the higher demand, lower feedstock cost, and a relatively balanced demand-supply.

**Lower feedstock cost.** Despite the higher prices of ABS, PS, and EPS, the prices of benzene and paraxylene (PX) – a co-product of the benzene production process – have remained weak due to the large influx of new supply, mainly from China. The benzene-naphtha margin has hovered below USD300/t since mid-2018 when the USChina trade war kicked off. Fortunately, IRPC saw little impact from the weak benzene-naphtha margin, given that it sells no benzene and consumes all of its benzene internally for its production of ABS, PS, and EPS.

Exhibit 27: Naphtha spread – Paraxylene

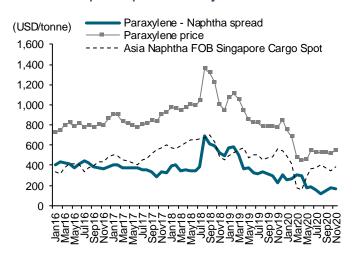
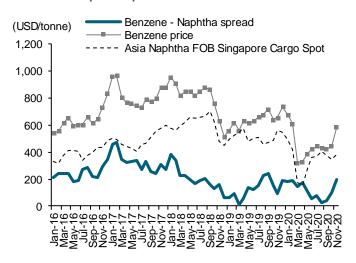


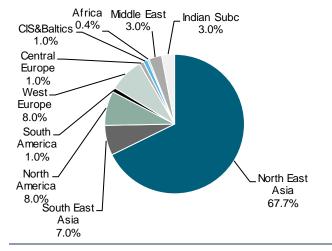
Exhibit 28: Naphtha spread – Benzene



Source: Bloomberg Source: Bloomberg

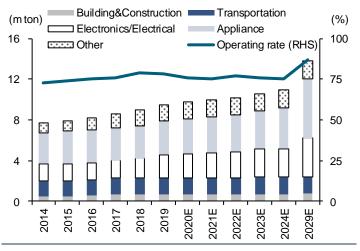
**Higher demand for ABS.** ABS is IRPC's largest downstream product in the benzene and styrene chain, with a total capacity of 18,000tpa, accounting for around 2% of the global ABS capacity in 2019. After China reopened its economy in 3Q20, the demand for ABS, mainly from home appliance 'white goods' and from the electronics and electrical industries, increased markedly, driving up the ABS-naphtha margin. We think the demand growth should continue into 2021, and hence project a high ABS-naphtha margin of over USD1,200/t for that year.

Exhibit 29: 2019 ABS demand by region



Source: IRPC

Exhibit 30: ABS demand by application



Source: IRPC

**FINANSIA** 

The ABS oversupply impact will likely soften the ABS-naphtha margin in 2021 onward. While we project the new ABS supply to rise in 2021 to 9mt, we think the negative impact would be lower than the market expects. However, it could still curb the ABS-naphtha margin from USD1,900/t down to USD1,300-1,500/t, considering that 1) some new supply is likely to be delayed to 2022 due to the COVID-19 impact; and 2) the demand growth should continue to absorb the supply growth.

Exhibit 31: ABS capacity addition by region

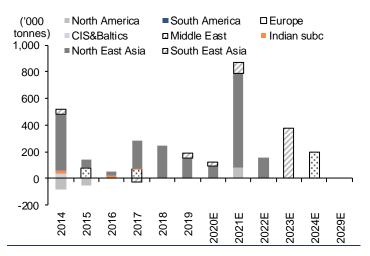
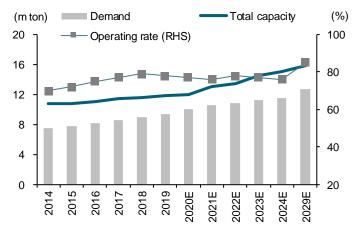


Exhibit 32: ABS supply and demand



Source: IRPC Source: IRPC

Petroleum product margins should be on the path to recovery in 2021. Since 1Q19, IRPC has suffered from a series of poor quarterly market GRMs, falling from USD4.37/bbl in 4Q18 down to negative USD0.94/bbl in 3Q20. The main culprit was the collapsing jet-Dubai margin caused by the abrupt disruption to the jet demand on the back of the global flight bans implemented to fight the COVID-19 outbreak. The weak jet-Dubai margin led to a global production diversion from jet to diesel, which later saw the diesel-Dubai margin plunge below USD8/bbl since May-20.

Exhibit 33: Jet Kerosene fob Spot Price - Dubai crude oil price

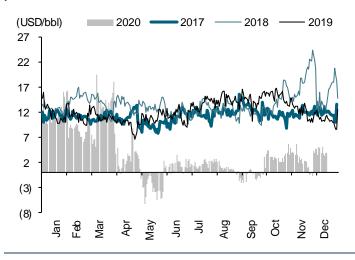
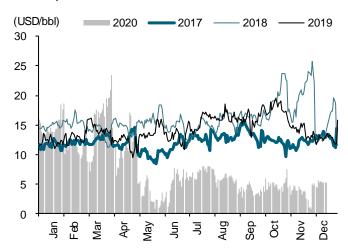


Exhibit 34: Gasoil 0.5% Sulphur fob SG Spot Price - Dubai crude oil price



Source: Bloomberg Source: Bloomberg

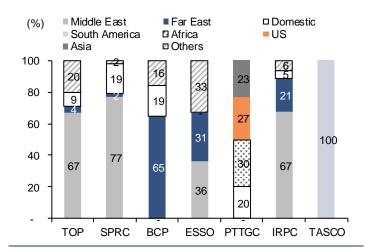
In response to the abrupt change in the industry, IRPC reduced its jet-fuel production to zero and produced a higher amount of diesel instead, at a 57% yield. However, the strategy has so far been insufficient to return IRPC's market GRM to a positive level, due to the weak diesel-Dubai margin.

Source: Companies

# Exhibit 35: Product yield breakdown as of 3Q20

#### LPG ULG □Naphtha Jet (%) ■ Asphalt □Diesel Fuel oil ☐ Others 100 90 80 70 60 19 50 40 30 20 10 **SPRC BCP** ESSO PTTGC **IRPC** TASCO S-GRM

Exhibit 36: Crude mix breakdown as of 3Q19



Source: Companies

IRPC's crude strategy to lower the proportion of the expensive Arab Light (ARL) crude, a key feedstock to produce the feedstock for its lube plant, from 35% to 30% of its total crude intake, has effectively improved its market GRM by USD0.2-0.4/bbl, based on our estimate. However, the 5% lower ARL proportion was replaced with another light crude, Murban, which resulted in a higher diesel yield but not gasoline – the product with a higher margin over the Dubai crude price. Hence, IRPC continued to suffer from a weak market GRM in 9M20.

Exhibit 37: 92 Octane Gasoline fob Spot Price – Dubai crude oil price

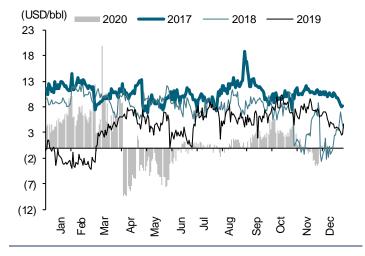
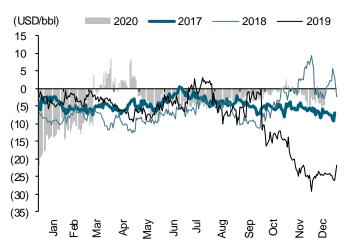


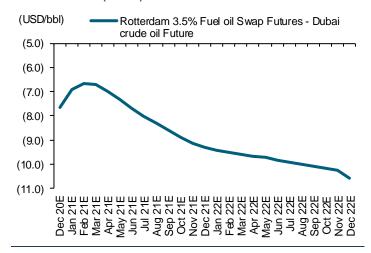
Exhibit 38: High Sulphur Fuel Oil Spot fob Singapore – Dubai crude oil price



Source: Bloomberg Source: Bloomberg

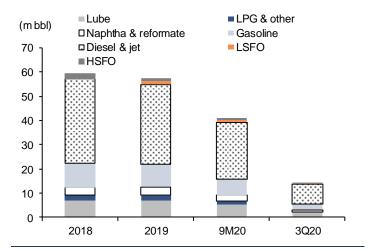
Since Jul-19, IRPC has continued to produce only low sulphur fuel oil (LSFO) at 4% of its total yield and zero high sulphur fuel oil (HSFO), given the higher margin of LSFO-Dubai vs HSFO-Dubai. It is likely that IRPC will continue to produce LSFO at a 4% yield in 2021, as we project the LSFO-Dubai margin to rise after the global freight industry returns to normality.

Exhibit 39: Rotterdam 3.5% fuel oil swap futures – Dubai crude oil future (HSFO)



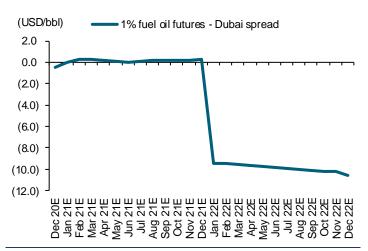
Source: Bloomberg

Exhibit 41: Production yields of IRPC (m bbl)



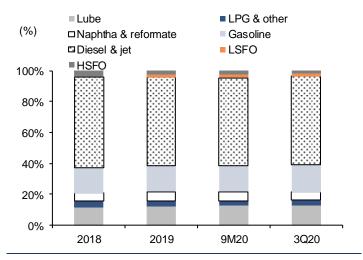
Source: IRPC

Exhibit 40: 1% fuel oil futures – Dubai forward spread



Source: Bloomberg

Exhibit 42: Production yields of IRPC (%)



Source: IRPC

**NOAH cost saving project.** In 4Q20, management indicated that IRPC will book a one-time THB1.7b expense related to severance payments for employees taking early retirement. Under IRPC's initiative, NOAH, comprising the Mutual Separation Program (MSP) and Aspiring Separation Program (ASP) for the early retirement of 2,900 employees, the company plans to cut its operating expenses by THB0.6b annually starting in 2021, down from its baseline operating expense of THB8b annually. We think the NOAH plan should reduce IRPC's cost per unit by USD0.2/bbl in 2021 onward.

### Exhibit 43: NOAH plan

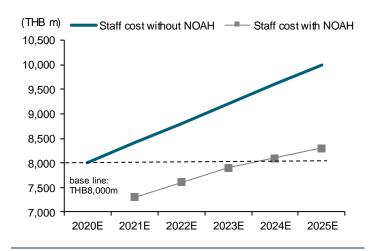
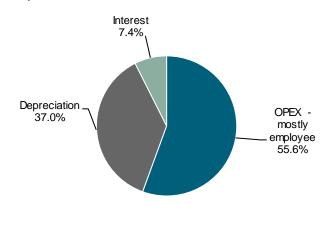


Exhibit 44: Estimated cost breakdown per unit (USD11/bbl in 2019)



Source: IRPC Sources: IRPC; FSSIA estimates

#### **EPS and TP revisions**

We cut our EPS forecasts for 2020-22 by 0.7-187% to reflect 1) the larger-than-expected inventory loss in 2020; 2) the lower-than-expected market GRM in 2020, resulting in a 37-131% lower market GRM in 2020-21E; and 3) a higher PP-naphtha margin to reflect our more positive view on the demand growth outlook.

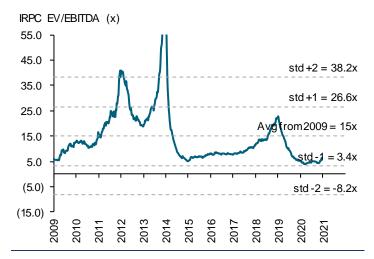
Exhibit 45: Key change assumption

		Current			Previous		Change (%)			
	2020E	2021E	2022E	2020E	2021E	2022E	2020E	2021E	2022E	
Revenue	195,659	244,442	255,150	255,893	261,489	266,225	(23.5)	(6.5)	(4.2)	
Gross profit	10,041	17,811	26,856	16,996	18,440	22,254	(40.9)	(3.4)	20.7	
Operating profit	3,584	9,745	18,436	9,451	10,730	14,405	(62.1)	(9.2)	28.0	
Core net profit	(6,808)	5,261	11,111	7,807	8,651	11,192	(187.2)	(39.2)	(0.7)	
EPS	(0.3)	0.3	0.5	0.4	0.4	0.5	(187.2)	(39.2)	(0.7)	
Key assumptions										
Oil price (USD/bbl)	44	52	50	40	50	50	10.0	4.0	0.0	
Olefin utilisation rate (%)	92	93	94	92	93	94	0.0	0.0	0.0	
Refinery utilisation rate (%)	90	96	97	96	97	96	(6.3)	(1.0)	1.0	
Market GRM (USD/bbl)	(0.7)	1.7	4.8	2.3	2.8	3.8	(130.6)	(37.3)	26.8	
Market GIM (USD/bbl)	8.6	11.8	14.9	11.4	12.1	13.5	(25.2)	(3.2)	10.0	
HDPE-naphtha (USD/t)	590	473	532	446	437	487	32.3	8.2	9.2	
PP-naphtha (USD/t)	620	573	632	496	537	587	25.0	6.7	7.7	

Sources: IRPC; FSSIA estimates

We maintain BUY and raise our TP from THB4.2, previously based on 7.8x 2020E EV/EBITDA, to THB5.3, now based on 9x 2021E EV/EBITDA – still a discount to IRPC's 11-year average – to reflect the weak market GRM outlook. We believe IRPC's current valuation, trading at 4.8-7.2x 2021-22E EV/EBITDA and 0.8-0.9x 2021-22E P/BV, remains attractive despite the recent share price rally, as we project IRPC's net profit to turnaround in 2021-22.

Exhibit 46: One-year forward rolling EV/EBITDA band



Sources: Bloomberg; FSSIA estimates

Exhibit 47: One-year forward rolling P/BV band



Sources: Bloomberg; FSSIA estimates

Exhibit 48: Peer comparisons

Company	BBG	Poo	Share	Target	Unoido	Market	3Y EPS	PE		R0	DE	PE	3V	EV/E	BITDA
Company	code	Rec	Price	price	Upside	Сар	CAGR	20E	21E	20E	21E	20E	21E	20E	2
			(Local curr)	(Local curr)	(%)	(USD m)	(%)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	()
THAILAND															
Indorama Ventures	IVL TB	BUY	37.75	36.00	(5)	7,109	54.0	179.8	28.4	0.9	5.6	1.6	1.5	10.3	9.
Irpc Pcl	IRPC TB	BUY	3.62	5.30	46	2,591	(308.0)	(10.9)	14.1	(8.6)	6.9	1.0	0.9	11.7	7.
Ptt Global Chem	PTTGC TB	BUY	59.25	69.00	16	8,916	34.5	58.1	14.4	1.7	7.0	1.0	1.0	15.4	8.
Siam Cement	SCC TB	BUY	384.00	445.00	16	15,455	3.9	13.9	13.0	11.5	11.7	1.6	1.5	13.6	13.
Eastern Polymer	EPG TB	BUY	6.50	6.30	(3)	610	9.5	18.1	19.7	9.6	8.7	1.7	1.7	12.4	12.
	VNT TB	_	29.75		NA			16.7	14.4	9.7	10.9	1.6	1.5	8.4	7.
Vinythai Public THAILAND avg	VIVITE	NA	29.75	NA	INA	1,167 <b>35,847</b>	(12.5) (1.5)	56.2	16.6	5.4	8.9	1.4	1.3	13.0	10.
INIDIA															
INDIA	DII IN	NΙΔ	1 020 70	NΙΔ	NIA	470 000	40.0	27.0	20.4	10.6	0.1	2.0	2.2	10.0	17
Reliance Industries	RIL IN	NA	1,939.70	NA	NA	172,223	12.8	27.8	29.4	10.6	8.1	2.8	2.2	16.6	17.
INDIA avg						172,223	12.8	27.8	29.4	10.6	8.1	2.8	2.2	16.6	17.
TAIWAN															
Formosa Plastics	1301 TT	NA	92.10	NA	NA	20,805	3.3	33.2	18.0	5.2	9.5	1.8	1.7	26.3	19.6
Nan Ya Plastics	1303 TT	NA	68.60	NA	NA	19,306	15.9	30.0	19.1	5.4	7.9	1.6	1.5	19.6	18.
Formosa Chem & Fi	1326 TT	NA	79.70	NA	NA	16,577	(5.6)	30.0	21.5	4.4	6.3	1.3	1.3	15.7	13.
Formosa Petro	6505 TT	NA	93.50	NA	NA	31,607	7.7	138.5	25.7	1.6	10.3	2.9	2.7	56.5	16.
TAIWAN avg						88,295	6.0	69.6	21.6	3.8	8.9	2.1	1.9	33.7	17.
SOUTH KOREA															
Hanwha Solutions	009830 KS	NA	45,600.00	NA	NA	6,588	52.9	14.4	11.1	8.5	10.1	1.2	1.1	9.6	8.
			· ·			,									
Lotte Chemical	011170 KS	NA	260,000.00	NA	NA	8,053	9.0	33.1	9.4	2.0	7.0	0.7	0.6	8.1	4.
Lg Chem	051910 KS	NA	797,000.00	NA	NA	50,843	79.1	39.7	28.0	8.4	10.9	3.2	2.9	13.5	10.
Kumho Petro	011780 KS	NA	138,000.00	NA	NA	3,800	21.9	8.0	7.1	18.6	17.9	1.4	1.2	5.3	4.
Oci	010060 KS	NA	82,300.00	NA	NA	1,774	(217.9)	NA	20.0	(3.0)	3.8	8.0	0.7	45.5	9.
SOUTH KOREA avg						71,058	58.3	33.9	23.0	7.9	10.6	2.6	2.4	12.9	9.0
MALAYSIA															
Petronas Chem	PCHEM MK	NA	7.41	NA	NA	14,597	5.3	35.5	22.9	5.4	8.1	1.9	1.9	14.3	11.1
Lotte Chemical Titan	TTNP MK	NA	2.80	NA	NA	1,567	(10.9)	50.9	27.2	1.0	1.5	0.5	0.5	3.8	3.5
MALAYSIA avg						16,165	3.7	37.0	23.3	4.9	7.4	1.8	1.7	13.3	10.3
Average (Asia)						383,587	17.9	41.6	25.0	7.8	8.8	2.4	2.0	19.4	15.0
Average (Asia)						303,301	17.3	41.0	23.0	7.0	0.0	2.7	2.0	13.4	13.0
US															
Eastman Chem	EMN US	NA	102.58	NA	NA	13,896	3.6	17.3	14.4	11.8	14.5	2.3	2.1	11.0	9.9
Dupont De Nem	DD US	NA	70.45	NA	NA	51,700	14.7	22.0	20.7	5.3	5.7	1.3	1.1	13.4	12.
Celanese	CE US	NA	130.76	NA	NA	15,285	3.7	18.3	14.1	28.7	35.5	5.8	5.3	13.5	11.
Westlake Chem	WLK US	NA	82.53	NA	NA	10,541	(2.6)	39.8	27.1	4.5	5.5	1.7	1.7	11.2	9.
Ppg Industries	PPG US	NA	146.10	NA	NA	34,509	5.1	26.0	21.5	23.5	25.7	5.9	5.3	16.1	13.
Alpek Sa De Cv	ALPEKA MM	NA	17.68	NA	NA	1,859	(18.2)	14.3	10.0	5.2	9.6	0.9	0.9	6.5	5.
Avg (US)						127,791	7.7	23.5	19.8	13.6	15.7	3.2	2.9	13.6	12.
ME/Europe															
Saudi Basic	SABIC AB	NA	99.00	NA	NA	80,275	7.6	1,356.8	32.7	0.0	4.6	1.8	1.8	17.4	11.
Saudi Kayan	KAYAN AB	NA	12.82	NA NA	NA NA	5,341	(210.2)	-	105.2	(5.1)	1.6			17.4	12.0
•							, ,	NA 67.0		` '		1.4	1.4		
Yanbu National	YANSAB AB	NA	65.50	NA	NA NA	9,894	11.4	67.0	32.9	3.5	8.1	2.5	2.5	20.2	14.
Industries Qatar	IQCD QD	NA	11.05	NA	NA	18,191	4.3	36.3	26.7	4.6	6.7	2.1	2.1	33.1	25.
Basf Se	BAS GR	NA	63.91	NA	NA	71,864	17.0	24.5	17.7	1.1	8.0	1.7	1.6	11.3	9.
Arkema	AKE FP	NA	93.86	NA	NA	8,876	2.5	18.9	15.1	7.4	10.3	1.3	1.3	8.0	7.
Lanxess Ag	LXS GR	NA	62.36	NA	NA	6,678	(4.4)	20.3	16.3	7.9	8.7	1.6	1.5	9.5	8.
Solvay Sa	SOLB BB	NA	96.54	NA	NA	12,479	0.8	16.5	15.3	(1.3)	8.5	1.4	1.4	7.7	7.
Avg (ME/Europe)						213,599	4.2	526.7	26.7	1.3	6.6	1.8	1.7	15.6	11.
Petrochem under cov	erage					34,680	(1.1)	55.6	16.2	5.1	8.5	1.3	1.3	12.8	10.
Average (all)	o. ugo					724,977	12.1	181.3	24.6	6.9	9.4	2.4	2.1	17.2	13.

Share price as of 21 Dec 2020 Sources: Bloomberg; FSSIA estimates

# **Financial Statements**

IRPC PCL

Cost of goods sold         (26,400)         (228,027)         (176,744)         (21,281)         (21,831)           Cher operating income         24,15         11,287         18,915         27,181         36,86           Oher operating costs         (6,973)         (7,056)         (6,877)         (8,067)         (8,428)           Operating EBITDA         (7,178)         42,31         12,458         19,114         28,48           Depreciation         (8,237)         (8,542)         (8,874)         (9,398)         (9,988)           Cooctivall amortisastion         (9,681)         (1,911)         3,584         9,745         18,44           Departing EBIT         8,941         (4,311)         3,584         9,745         18,44           Net financing costs         (1,156)         (1,131)         (2,377)         (2,677)         (2,49           Associates         415         363         363         363         37           Non recurring in one preading income         1,936         4,318         (7,997)         763         77           Yori Ebefore tax         8,915         (1,924)         (6,780)         7,832         16,7           Yer Feired dividends         0         0         0         0<	Profit and Loss (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
Cross profit   Cher operating income   Cher operating income   Cher operating costs   (6,973)   (7,056)   (6,457)   (8,067)   (8,067)   (8,427)   (8,067)	Revenue	280,551	239,315	195,659	244,442	255,150
Ober operating income         -	Cost of goods sold	(256,400)	(228,027)	(176,744)	(217,261)	(218,312)
Operating cents         (6, 973)         (7, 056)         (6, 473)         (2, 648)         19, 114         28, 48           Operating EBITDA         (8, 237)         (6, 542)         (8, 874)         (9, 389)         (9, 98)           Goodwill amortisation         0         18,4         24,4         24,4 <td>Gross profit</td> <td>24,151</td> <td>11,287</td> <td>18,915</td> <td>27,181</td> <td>36,838</td>	Gross profit	24,151	11,287	18,915	27,181	36,838
Operating EBITDA         17,178         4,231         12,858         19,114         28,48           Depreciation         (8,237)         (6,542)         (8,874)         (9,369)         9,98           Coodwill amorisation         0         0         0         0         0           Operating EBIT         8,941         (4,311)         3,584         9,745         18,45           Associates         415         363         465         465         465	Other operating income	-	-	-	-	-
Depreciation	Operating costs	(6,973)	(7,056)	(6,457)	(8,067)	(8,420)
Cocodwill amortisation   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Operating EBITDA	17,178	4,231	12,458	19,114	28,418
Operating EBIT         8,941         (4,311)         3,584         9,745         18,48           Net financing costs         (1,961)         (1,931)         (2,377)         (2,677)         (2,48           Associates         4145         363         365         15,77         15,73         16,77         46,780         7,832         11,14         46,780         11,14         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         46,72         4	Depreciation	(8,237)	(8,542)	(8,874)	(9,369)	(9,983)
Net financing costs         (1,961)         (1,931)         (2,377)         (2,677)         (2,487)           Associates         415         363         1676         1677         1677         1679         0         0         2,542         5,552         1677         1677         1679         0         0         2,542         5,552         111,1         1707         0<	Goodwill amortisation	0	0	0	0	0
Associates         415         363         363         363         363           Recurring non operating income         1,936         4,318         (7,987)         763         77           Non recurring items         0         0         0         0         0         7,832         16,76           Profit before tax         1,147         779         0         (2,542)         (5,56           Profit after tax         7,769         (1,146)         (6,780)         5,280         111,11           Minority interests         344         (28)         (28)         (28)         (28)           Preferred dividends         0         0         0         0         0         0           Cheter items         -	Operating EBIT	8,941	(4,311)	3,584	9,745	18,436
Recurring non operating income	Net financing costs	(1,961)	(1,931)	(2,377)	(2,677)	(2,499)
Non recurring items         0         0         0         0         0         0         7.672         16.77         7.82         16.77         16.77         16.72         16.77         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         16.72         17.72	Associates	415	363	363	363	363
Profit before tax	Recurring non operating income	1,936	4,318	(7,987)	763	763
Tax         (1,147)         779         0         (2,542)         (5,56           Profit after tax         7,769         (1,146)         (6,780)         5,290         11,14           Minority interests         (34)         (28)         (28)         (28)         (28)           Preferred dividends         0         0         0         0         0           Other items         -         -         -         -         -           Reported net profit         7,735         (1,174)         (6,808)         5,261         11,11           Non recurring letms & goodwill (net)         0         0         0         0         0           Recurring pet profit         7,735         (1,174)         (6,808)         5,261         11,11           Per share (THB)         0         0         0         0         0         0           Recurring pet profit         0.38         (0.06)         (0.33)         0.26         0.3           Reported EPS         0.38         (0.06)         (0.33)         0.26         0.3           DPS         0.20         0.11         0.05         0.13         0.26           Coresting EBIT (s)         3.10         (14.7)	Non recurring items	0	0	0	0	0
Profit after tax   7,769   (1,146)   (6,780)   5,290   11,141	Profit before tax	8,915	(1,924)	(6,780)	7,832	16,700
Minority interests         (34)         (28)         (28)         (28)         (28)           Prefered dividends         0         0         0         0         0           Cher items         -	Tax	(1,147)	779		(2,542)	(5,561)
Preferred dividends         0         0         0         0           Cher items         -         -         -         -           Reported net profit         7,735         (1,174)         (6,808)         5,261         11,11           Non recurring items & goodwill (net)         0         0         0         0           Recurring net profit         7,735         (1,174)         (6,808)         5,261         11,11           Per share (THB)	Profit after tax	7,769	(1,146)	(6,780)	5,290	11,140
Other items         - <th< td=""><td>Minority interests</td><td>(34)</td><td>(28)</td><td>(28)</td><td>(28)</td><td>(28)</td></th<>	Minority interests	(34)	(28)	(28)	(28)	(28)
Reported net profit   7,735   1,174   (6,808   5,261   11,17   Non recurring items & goodwill (net)   7,735   7,735   7,137	Preferred dividends	0	0	0	0	0
Non recurring items & goodwill (net)         0         0         0         0         0           Recurring net profit         7,735         (1,174)         (6,808)         5,261         11,11           Per share (THB)         ***********************************	Other items	-	-	-	-	-
Recurring net profit         7,735         (1,174)         (6,808)         5,261         11,17           Per share (THB)           Recurring EPS*         0.38         (0.06)         (0.33)         0.26         0.26           Reported EPS         0.38         (0.06)         (0.33)         0.26         0.20           DPS         0.20         0.10         0.05         0.13         0.24           Diluted shares (used to calculate per share data)         20,434	Reported net profit	7,735	(1,174)	(6,808)	5,261	11,111
Per share (THB)           Recurring EPS *         0.38         (0.06)         (0.33)         0.26         0.3           Reported EPS         0.38         (0.06)         (0.33)         0.26         0.5           DPS         0.20         0.10         0.05         0.13         0.5           DIULted shares (used to calculate per share data)         20,434	Non recurring items & goodwill (net)	0	0	0	0	0
Recurring EPS*         0.38         (0.06)         (0.33)         0.26         0.38           Reported EPS         0.38         (0.06)         (0.33)         0.26         0.33           DPS         0.20         0.10         0.05         0.13         0.35           Diluted shares (used to calculate per share data)         20,434	Recurring net profit	7,735	(1,174)	(6,808)	5,261	11,111
Reported EPS         0.38         0.06         0.33         0.26         0.3           DPS         0.20         0.10         0.05         0.13         0.3           Diluted shares (used to calculate per share data)         20,434         20,44         40,44         20,44         40,44         40,44         40,44         40,44         40,44         40,44         40,44         40,44         40,44         40,44         40,44<	` ,					
DPS         0.20         0.10         0.05         0.13         0.00           Diluted shares (used to calculate per share data)         20,434         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40	•					0.54
Diluted shares (used to calculate per share data)   20,434   20,	•		(0.06)	, ,		0.54
Growth         31.0         (14.7)         (18.2)         24.9         4           Operating EBITDA (%)         (19.4)         (75.4)         194.4         53.4         48           Operating EBIT (%)         (37.3)         nm         nm         171.9         89           Recurring EPS (%)         (31.9)         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.27</td>						0.27
Revenue (%)         31.0         (14.7)         (18.2)         24.9         4           Operating EBITDA (%)         (19.4)         (75.4)         194.4         53.4         48           Operating EBIT (%)         (37.3)         nm         nm         171.9         89           Recurring EPS (%)         (31.9)         nm         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         nm         111           Operating EPIS (%)         (31.9)         nm         nm<		20,434	20,434	20,434	20,434	20,434
Operating EBITDA (%)         (19.4)         (75.4)         194.4         53.4         48           Operating EBIT (%)         (37.3)         nm         nm         171.9         89           Recurring EPS (%)         (31.9)         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         111           Operating performance           Gross margin inc depreciation (%)         5.7         1.1         5.1         7.3         10           Gross margin of key business (%)         5.7         1.1         5.1         7.3         10           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7						
Operating EBIT (%)         (37.3)         nm         nm         171.9         88           Recurring EPS (%)         (31.9)         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         111           Operating performance           Gross margin inc depreciation (%)         5.7         1.1         5.1         7.3         10           Gross margin of key business (%)         5.7         1.1         5.1         7.3         10           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7			, ,			4.4
Recurring EPS (%)         (31.9)         nm         nm         nm         nm         nm         111           Reported EPS (%)         (31.9)         nm         nm         nm         nm         111           Operating performance           Gross margin inc depreciation (%)         5.7         1.1         5.1         7.3         10           Gross margin of key business (%)         5.7         1.1         5.1         7.3         10           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3			(75.4)	194.4		48.7
Reported EPS (%)         (31.9)         nm         nm         nm         nm         111           Operating performance           Gross margin inc depreciation (%)         5.7         1.1         5.1         7.3         1.0           Gross margin of key business (%)         5.7         1.1         5.1         7.3         1.0           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         1.1           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         3		, ,	nm	nm	171.9	89.2
Operating performance           Gross margin inc depreciation (%)         5.7         1.1         5.1         7.3         10           Gross margin of key business (%)         5.7         1.1         5.1         7.3         10           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         36.1         39           Operating ROIC (%)         5.3         (2.6)         2.1         (1.4)         <		, ,	nm	nm	nm	111.2
Gross margin inc depreciation (%) 5.7 1.1 5.1 7.3 100 Gross margin of key business (%) 5.7 1.1 5.1 7.3 100 Operating EBITDA margin (%) 6.1 1.8 6.4 7.8 111 Operating EBIT margin (%) 3.2 (1.8) 1.8 4.0 7.8 111 Operating EBIT margin (%) 2.8 (0.5) (3.5) 2.2 4.0 Set (1.8) 1.8 4.0 3.4 3.4 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5		(31.9)	nm	nm	nm	111.2
Gross margin of key business (%)         5.7         1.1         5.1         7.3         1.0           Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         36.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         70.0						
Operating EBITDA margin (%)         6.1         1.8         6.4         7.8         11           Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0           Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         36.1         39           Operating ROIC (%)         5.3         (2.6)         2.1         (1.4)         (2.8           ROIC (%)         6.0         0.0         (2.4)         (1.4)         (2.4	. , ,					10.5
Operating EBIT margin (%)         3.2         (1.8)         1.8         4.0         7           Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         36.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         70.0         3.9         77.0         41.0         41.6         43.6         47.6         37.7         41.0						10.5
Net margin (%)         2.8         (0.5)         (3.5)         2.2         4           Effective tax rate (%)         13.5         34.0         36.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         70.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         34.0         36.0         36.0         36.0         37.7         41.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>11.1</td></td<>						11.1
Effective tax rate (%)       13.5       34.0       36.0       50.0       50.0       50.0       50.0       50.0       50.0       50.0       50.0       50.0       70.0       34.0       34.0       34.0       36.0       36.0       37.7       41.0       41.0       43.6       47.6       37.7       41.0       <			, ,			7.2
Dividend payout on recurring profit (%)         52.8         (174.1)         (15.0)         50.0         50.0           Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         36.1         39           Operating ROIC (%)         5.3         (2.6)         2.1         (1.4)         (2.8)           ROIC (%)         6.0         0.0         (2.4)         (1.4)         (2.8)	• , ,					4.4
Interest cover (X)         5.5         0.0         (1.9)         3.9         7           Inventory days         41.6         43.6         47.6         37.7         41           Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         36.1         39           Operating ROIC (%)         5.3         (2.6)         2.1         (1.4)         (2.8)           ROIC (%)         6.0         0.0         (2.4)         (1.4)         (2.8)	• ,					34.0
Inventory days     41.6     43.6     47.6     37.7     41       Debtor days     16.3     17.0     17.2     10.9     7       Creditor days     37.2     40.9     45.6     36.1     39       Operating ROIC (%)     5.3     (2.6)     2.1     (1.4)     (2.8)       ROIC (%)     6.0     0.0     (2.4)     (1.4)     (2.8)	. ,					50.0
Debtor days         16.3         17.0         17.2         10.9         7           Creditor days         37.2         40.9         45.6         36.1         39           Operating ROIC (%)         5.3         (2.6)         2.1         (1.4)         (2.           ROIC (%)         6.0         0.0         (2.4)         (1.4)         (2.	` '					7.7
Creditor days     37.2     40.9     45.6     36.1     39       Operating ROIC (%)     5.3     (2.6)     2.1     (1.4)     (2.8)       ROIC (%)     6.0     0.0     (2.4)     (1.4)     (2.8)	, ,					41.5
Operating ROIC (%) 5.3 (2.6) 2.1 (1.4) (2. ROIC (%) 6.0 0.0 (2.4) (1.4) (2.						7.3
ROIC (%) 6.0 0.0 (2.4) (1.4) (2.4)	•					39.7
						(2.7)
ROE (%) 8.9 (1.4) (8.6) 6.9 13	• •					(2.6)
						13.4
		5.1	0.2	(2.7)	2.7	5.8
* Pre-exceptional, pre-goodwill and fully diluted						
Revenue By Division (THB m) 2018 2019 2020E 2021E 2022	Revenue By Division (THB m)	2018	2019	2020E	2021E	2022E
Petroleum products 203,438 174,996 118,453 159,269 168,25	Petroleum products	203,438	174,996	118,453	159,269	168,228
Petrochemical products 72,739 59,656 61,903 68,435 69,80	Petrochemical products	72,739	59,656	61,903	68,435	69,869
Other business 4,374 4,663 15,303 16,737 17,09	Other business	4,374	4,663	15,303	16,737	17,052

Sources: IRPC PCL; FSSIA estimates

# **Financial Statements**

IRPC PCL

Cash Flow (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022
Recurring net profit	7,735	(1,174)	(6,808)	5,261	11,11
Depreciation	8,237	8,542	8,874	9,369	9,98
Associates & minorities	415	363	363	363	36
Other non-cash items	-	- (===0)	-	-	
Change in working capital	569	(558)	1,743	2,193	2,28
Cash flow from operations	16,956	7,174	4,172	17,187	23,74
Capex - maintenance	(4,481)	(4,536)	(4,712)	(4,975)	(5,30
Capex - new investment Net acquisitions & disposals	(676) 457	(418) (1,484)	(12,404) 0	(1,453) 0	(13,21
Other investments (net)	(3,235)	2,924	0	0	
Cash flow from investing	(7,936)	(3,513)	(17,116)	(6,428)	(18,51
Dividends paid	(6,130)	(4,087)	(2,043)	(1,022)	(2,63
Equity finance	0	0	0	0	(2,00
Debt finance	(1,486)	1,369	13,000	(5,000)	
Other financing cash flows	(1,216)	(244)	(852)	(861)	(92
Cash flow from Financing	(8,832)	(2,962)	10,105	(6,882)	(3,55
Non-recurring cash flows	-	-	-	-	•
Other adjustments	0	0	0	0	
Net other adjustments	0	0	0	0	
Movement in cash	189	699	(2,840)	3,876	1,67
Free cash flow to firm (FCFF)	10,981.68	5,591.97	(10,567.33)	13,435.27	7,723.1
ree cash flow to equity (FCFE)	6,318.91	4,785.79	(796.15)	4,897.98	4,301.2
er share (THB)					
CFF per share	0.54	0.27	(0.52)	0.66	0.3
FCFE per share	0.31	0.23	(0.04)	0.24	0.3
Recurring cash flow per share	0.80	0.38	0.12	0.73	1.0
Balance Sheet (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022
Tangible fixed asset (gross) Less: Accumulated depreciation	196,800 (72,063)	196,801 (72,062)	210,888	217,842 (90,305)	236,9 (100,28
•	(72,003) <b>124,737</b>	(72,062) <b>124,739</b>	(80,936) <b>129,952</b>	(90,305) <b>127,537</b>	136,6
Fangible fixed assets (Net) ntangible fixed assets (Net)	546	564	564	564	5
ong-term financial assets	540	504	504	304	3
nvest. In associates & subsidiaries	8,441	9,925	9,925	9,925	9,9
Cash & equivalents	2,338	3,036	196	4,072	5,7
VC receivable	12,197	10,100	8,386	6,245	4,0
nventories	28,459	25,995	20,149	24,768	24,8
Other current assets	3,635	4,515	3,691	4,612	4,8
Current assets	46,629	43,647	32,423	39,696	39,4
Other assets	2,092	2,646	2,646	2,646	2,6
Total assets	182,446	181,521	175,510	180,368	189,2
Common equity	87,286	83,256	74,528	78,768	87,24
Minorities etc.	94	146	175	203	2
Total Shareholders' equity	87,380	83,402	74,703	78,971	87,4
_ong term debt	43,561	43,881	56,881	51,881	51,8
Other long-term liabilities	2,609	4,860	4,860	4,860	4,8
ong-term liabilities	46,170	48,742	61,742	56,742	56,7
VC payable	26,212	24,871	19,278	23,697	23,8
Short term debt	14,041	15,090	15,090	15,090	15,0
Other current liabilities	8,643	5,745	4,697	5,868	6,1
Current liabilities	48,896	45,707	39,065	44,655	45,0
Total liabilities and shareholders' equity	182,446	177,850	175,510	180,368	189,2
Net working capital	9,436	9,994	8,252	6,059	3,7
nvested capital	145,253	147,868	151,338	146,730	153,5
Includes convertibles and preferred stock which is be	ing treated as debt				
Per share (THB)					
Book value per share	4.27	4.07	3.65	3.85	4.
Tangible book value per share	4.24	4.05	3.62	3.83	4.
inancial strength					
Net debt/Equity (%)	63.2	67.1	96.1	79.6	70
Net debt/total assets (%)	30.3	30.8	40.9	34.9	32
Current ratio (x)	1.0	1.0	0.8	0.9	(
CF interest cover (x)	4.6	3.7	5.9	3.4	8
/aluation	2018	2019	2020E	2021E	202
Recurring P/E (x) *	9.6	(63.0)	(10.9)	14.1	•
Recurring P/E @ target price (x) *	14.0	(92.2)	(15.9)	20.6	9
Reported P/E (x)	9.6	(63.0)	(10.9)	14.1	6
Dividend yield (%)	5.5	2.8	1.4	3.6	7
Price/book (x)	0.8	0.9	1.0	0.9	(
Price/tangible book (x)	0.9	0.9	1.0	0.9	(
EV/EBITDA (x) **	7.5	30.7	11.7	7.2	4
			445	0.0	,
EV/EBITDA @ target price (x) ** EV/invested capital (x)	9.5 0.9	38.8 0.9	14.5 1.0	9.0 0.9	6

Sources: IRPC PCL; FSSIA estimates

# Corporate Governance report of Thai listed companies 2019

	NT LEVEL											
AAV	ADVANC	AIRA	AKP	AKR	AMA	AMATA	AMATAV	ANAN	AOT	AP		
ARROW	BAFS	BANPU	BAY	BCP	BCPG	BOL	BRR	BTS	BTW	BWG		
CFRESH	CHEWA	CHO	CK	CKP	CM	CNT	COL	COMAN	CPALL	CPF		
CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC	EA	EASTW	ECF		
EGCO	GBX	GC	GCAP	GEL	GFPT	GGC	GOLD	GPSC	GRAMMY	GUNKUL		
HANA	HARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN		
JSP	K	KBANK	KCE	KKP	KSL	KTB	KTC	KTIS	LH	LHFG		
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	MFEC	MINT	MONO*		
MTC	NCH	NCL	NKI	NSI	NVD	NYT	OISHI	OTO	PAP	PCSGH		
PDJ	PG	PHOL	PJW	PLANB	PLANET	PORT	PPS	PR9	PREB	PRG		
PRM	PSH	PSL	PTG	PTT	PTTEP	PTTGC	PYLON	Q-CON	QH	QTC		
RATCH	ROBINS**	RS	S	S&J	SABINA	SAMART	SAMTEL	SAT	SC	SCB		
SCC	SCCC	SCN	SDC	SEAFCO	SEAOIL	SE-ED	SELIC	SENA	SIS	SITHAI		
	SORKON	SPALI							SYNTEC			
SNC			SPI	SPRC	SSSC	STA	STEC	SVI		TASCO		
TCAP	THAI	THANA	THANI	THCOM	THIP	THREL	TIP	TISCO	TK	TKT		
TMB	TMILL	TNDT	TOA	TOP	TRC	TRU	TRUE	TSC	TSR	TSTH		
TTA	TTCL	TTW	TU	TVD	TVO	U	UAC	UV	VGI	VIH		
WACOAL	WAVE	WHA	WHAUP	WICE	WINNER							
	OD LEVEL											
2S	ABM	ADB	AF	AGE	AH	AHC	AIT	ALLA	ALT	AMANAH		
AMARIN	APCO	APCS	AQUA	ARIP	ASAP	ASIA	ASIAN	ASIMAR	ASK	ASN		
ASP	ATP30	AUCT	AYUD	В	BA	BBL	BDMS	BEC	BEM	BFIT		
BGC	BGRIM	BIZ	BJC	BJCHI	BLA	BPP	BROOK	CBG	CEN	CENTEL		
CGH	CHG	CHOTI	CHOW	CI	CIMBT	CNS	COLOR	COM7	COTTO	CRD		
CSC	CSP	DCC	DCON	DDD	DOD	EASON	ECL	EE	EPG	ERW		
ESTAR	ETE	FLOYD	FN	FNS	FORTH	FPI	FPT	FSMART	FSS	FVC		
GENCO	GJS	GL	GLOBAL	GLOW**	GULF	HPT	HTC	HYDRO	ICN	IFS		
INET	INSURE	IRC	IRCP	IT	ITD***	ITEL	J	JAS*	JCK	JCKH		
JMART	JMT	JWD	KBS	KCAR	KGI	KIAT	KOOL	KWC	KWM	L&E		
LALIN	LANNA	LDC	LHK	LOXLEY	LRH	LST	M	MACO	MAJOR	MBAX		
MEGA	METCO	MFC	MK	MODERN	MOONG	MPG	MSC	MTI	NEP	NETBAY		
NEX	NINE	NOBLE	NOK	NTV	NWR	OCC	OGC	ORI	OSP	PATO		
PB	PDG	PDI	PL	PLAT	PM	PPP	PRECHA	PRIN	PRINC	PSTC		
PT	QLT	RCL	RICHY	RML	RWI	S11	SAAM	SALEE	SAMCO	SANKO		
SAPPE	SAWAD	SCG	SCI	SCP	SE	SFP	SIAM	SINGER	SIRI	SKE		
SKR	SKY	SMIT	SMK	SMPC	SMT	SNP	SONIC	SPA	SPC	SPCG		
SPVI	SR	SRICHA	SSC	SSF	SST	STANLY	STPI	SUC	SUN	SUSCO		
SUTHA	SWC	SYMC	SYNEX	T	TACC	TAE	TAKUNI	TBSP	TCC	TCMC		
TEAM	TEAMG	TFG	TFMAMA	THG	THRE	TIPCO	TITLE	TIW	TKN	TKS		
TM	TMC	TMD	TMI	TMT	TNITY	TNL	TNP	TNR	TOG	TPA		
TPAC	TPBI	TPCORP	TPOLY	TRITN	TRT	TSE	TSTE	TVI	TVT	TWP		
TWPC	UBIS	UEC	UMI	UOBKH	UP	UPF	UPOIC	UT	UWC	VNT		
WIIK	XO	YUASA	ZEN	ZMICO	UP	UPF	UPUIC	UT	UVVC	VINI		
		TUASA	ZEN	ZIVIICO								
GOOD LE												
Α	ABICO	ACAP***	AEC	AEONTS	AJ	ALUCON	AMC	APURE	AS	ASEFA		
AU	B52	BCH	BEAUTY	BGT	BH	BIG	BLAND	BM	BR	BROCK		
BSBM	BSM	BTNC	CCET	CCP	CGD	CHARAN	CHAYO	CITY	CMAN	CMC		
CMO	CMR	CPL	CPT	CSR	CTW	CWT	D	DIMET	EKH	EMC		
EPCO	ESSO	FE	FTE	GIFT	GLAND	GLOCON	GPI	GREEN	GTB	GYT		
HTECH	HUMAN	IHL	INGRS	INOX	JTS	JUBILE	KASET	KCM	KKC	KWG		
KYE	LEE	LPH	MATCH	MATI	M-CHAI	MCS	MDX	META	MGT	MJD		
MM	MVP	NC	NDR	NER	NNCL	NPK	NUSA	OCEAN	PAF	PF		
PICO	PIMO	PK	PLE	PMTA	POST	PPM	PROUD	PTL	RCI	RJH		
ROJNA	RPC	RPH	SF	SGF	SGP	SKN	SLP	SMART	SOLAR	SPG		
SQ	SSP	STI	SUPER	SVOA	TCCC	THE	THMUI	TIC	TIGER	TNH		
TOPP	TPCH	TPIPP	TPLAS	TQM	TTI	TYCN	UTP	VCOM	VIBHA	VPO		
WIN	WORK	WP	WPH	ZIGA								
	Score	Range			Number of L	ogo			Description			
	90-			•		_			Excellent			
	80-					Table			Very Good			
	70-79							Good				
	60-				Good Satisfactory							
	50-59					district district.				Pass		
	Less th				No logo give	n	-					
	2000 (1011 00											

#### 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.

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

FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

\* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive; \*\* delisted

# **Anti-corruption Progress Indicator**

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	CM	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	K	KASET
KBANK	KBS	KCAR	KCE	KGI	KKP	KSL	KTB	KTC	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	TKT
TMB	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	Al	AIRA	ALT	AMA	AMARIN	AMATA	ANAN	В
ВМ	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

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

This report has been prepared by FSS International Investment Advisory Company Limited (FSSIA). The information herein has been obtained from sources believed to be reliable and accurate; however FSS makes no representation as to the accuracy and completeness of such information. Information and opinions expressed herein are subject to change without notice. FSS has no intention to solicit investors to buy or sell any security in this report. In addition, FSS does not guarantee returns nor price of the securities described in the report nor accept any liability for any loss or damage of any kind arising out of the use of such information or opinions in this report. Investors should study this report carefully in making investment decisions. All rights are reserved.

This report may not be reproduced, distributed or published by any person in any manner for any purpose without permission of FSSIA. Investment in securities has risks. Investors are advised to consider carefully before making investment decisions.

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



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

Price and TP are in local currency

Source: FSSIA estimates

#### Indorama Ventures (IVL TB) Dec-17 Jun-18 Dec-18 Dec-19 Jun-20 Dec-20 Jun-19 90 80 70 60 50 40 30 20 10 Target Price (BNPP/FSSIA) Target Price (FSSIA - from 1 Jul 2020) Indorama Ventures (THB) Date Rating Target price Date Rating Target price Date Rating Target price 09-Oct-2018 BUY 82.00 07-Nov-2019 BUY 47.00 09-Jun-2020 BUY 40.00 07-Aug-2020 06-Nov-2020 21-Dec-2018 RUY 83.00 20-Jan-2020 BUY 41.00 RUY 44.00 27-Feb-2020 36.00

BUY

40.00

BUY

BUY Suwat Sinsadok Started covering this stock from 09-Oct-2018

66.00

Price and TP are in local currency

Source: FSSIA estimates

02-May-2019

#### PTT Global Chemical (PTTGC TB) Dec-17 Jun-18 Dec-18 Jun-19 Dec-19 Jun-20 Dec-20 110 90 70 50 30 10 PTT Global Chemical Target Price (BNPP/FSSIA) Target Price (FSSIA - from 1 Jul 2020) (THB) Date Rating Target price Date Rating Target price Date Rating Target price 09-Oct-2018 BUY 96.00 08-May-2020 BUY 50.00 BUY 27-Nov-2020 09-Apr-2020 50.00 BUY 69.00

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

Price and TP are in local currency

Source: FSSIA estimates



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) Dec-18 Dec-17 Jun-18 Jun-19 Dec-19 Jun-20 Dec-20 12 10 8 6 4 2 Eastern Polymer Group Target Price (BNPP/FSSIA) Target Price (FSSIA - from 1 Jul 2020) (THB) Rating Rating Rating Date Target price Date Target price Date Target price 29-May-2020 29-May-2020 09-Oct-2018 BUY 10.00 BUY 20-Aug-2020 BUY 6.30 20-Feb-2020 BUY BUY

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
IRPC PCL	IRPC TB	THB 3.62	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.
Indorama Ventures	IVL TB	THB 35.25	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.
PTT Global Chemical	PTTGC TB	THB 56.00	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 370.00	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 6.15	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 21-Dec-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.