INVESTOR UPDATE
MARCH 2024

AGENDA

I

Company Profile

II

Financial Highlight

III

Strategic Direction

IV

Project Update

V

Industry Outlook

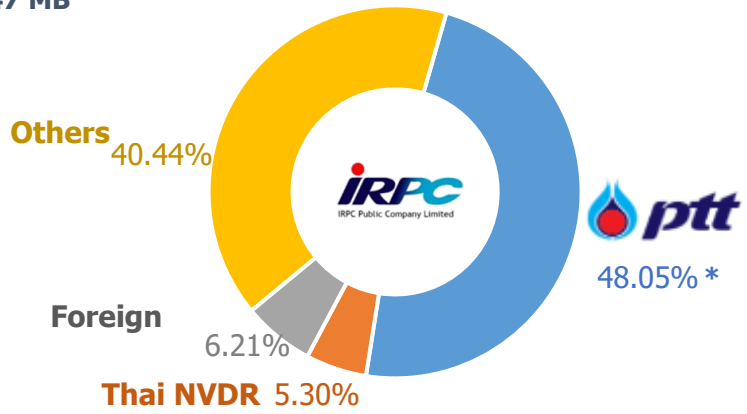
Introduction to IRPC

To Shape Material and Energy Solutions in Harmony with Life

Shareholding Structure

Market Cap. : 39,847 MB
(as of Feb 29, 2024)

As of Feb 2024



***Remark:** PTT holds total of 48.05% both direct and indirect

Crude Procurement & Credit Term

Operational & Strategic Relationships with PTT Group

- PTT secures 100% crude procurement for IRPC at the market price

Product Swaps and Off-takes

- Petroleum Product off-take and swap agreement with PTT group on arm-length basis

Financial and Risk Control Systems

- Strong support of credit facilities from PTT thru Intercompany Borrowing & Lending (ICBL) program
- IRPC are under PTT group's finance & accounting framework

Complex & Facilities

- **Integrated petrochemical complex:** Upstream to downstream in a single complex
- **Locate in Industrial Area**: Eastern Seaboard Area of Thailand, 200 km. from Bangkok and 30 km. from Map Ta Phut Industrial Area
  - **Facility Support**:
    - Deepest sea port
    - Tank Farm and Power Plant
    - Thailand's main coastal highway

Credit Rating

FitchRatings KNOW YOUR RISK

BBB+(tha) Stable Outlook

Awards Certify Achievement in Sustainability

Member of
Dow Jones Sustainability Indices
Powered by the S&P Global CSA

Top 10% S&P Global ESG Score

IRPC Public Company Limited	Thailand	82

SET AWARDS 2023

- **2014 – 2023** : Member of DJSI emerging Market in Oil & Gas Industry for **the 10th Consecutive Year**
- **Top 10%** S&P Global ESG Score
- **2019 – 2023:** Sustainability Awards of Honor for **the 5th Consecutive Year**

Human Rights Awards 2023

Green Industry
กระทรวงอุตสาหกรรม
AWARD 2023

CSR-DIW AWARD

Petroleum and Petrochemical Capacity

Petroleum

Unit: KBD

- **Refinery** ***215***
  - *LPG*
  - *Naphtha*
  - *Gasoline*
  - *Diesel*
  - *Fuel Oil*

Unit: KTA

- **Lube Base** ***920***
  - *Lube Base Oil*
  - *Asphalt*

Crude Refining Capacity

215 KBD

Petrochemical

Unit: KTA

- **Olefins** ***1,221***
  - *Ethylene*
  - *Propylene*
  - *Butadiene*
- **Aromatics** ***367***
  - *Benzene*
  - *Toluene*
  - *Mixed Xylene*
- **Styrenics** ***260***
  - *EBSM*
- **Polyolefins** ***931***
  - *HDPE*
  - *UHMW-PE*
  - *PP*
- **Polystyrenics** ***352***
  - *ABS*
  - *PS*
  - *EPS*

Petrochemical Capacity

- Monomer 1,848 KTA
- Polymer 1,283 KTA

3,131 KTA

Facilities & Utilities

Utilities
307 MW Power plant

Port and Tank Services
5 Depots

Freehold Land
~4,000 Acres
(~10,000 Rais)

Polyolefins Products

PP

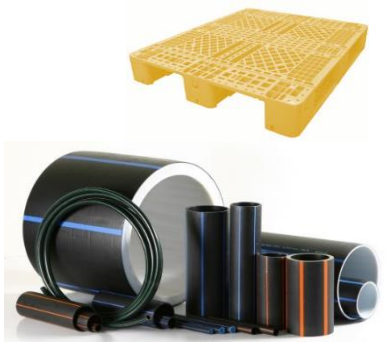
Polypropylene has medium transparency. It features such significant properties as high stiffness, high surface hardness, high heat and medium impact strength. It can be used for the manufacture of kitchenware, household items, stretch tape, electrical parts, fertilizer bags, sugar bags, woven bags, hot fill bags, etc.

Resin Appearance Sample

Polyolefins Products

HDPE

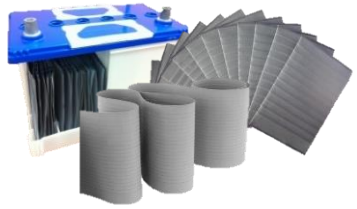
High Density Polyethylene (HDPE) has an opaque appearance. Products exhibit high tensile, impact strength and high chemical resistance.



Resin Appearance Sample

UHMW-PE

Ultra-High Molecular Weight Polyethylene (UHMW-PE) is an extremely high molecular mass engineering plastic. It has outstanding features in terms of durability, chemical resistance and stability at extreme conditions. UHMW-PE is currently used in various applications such as machine parts, battery separator, marine ropes, bullet-proof vests, etc.



Styrenics Products

PS

Polystyrene (PS) can be divided into 2 types as follows; General Purpose Polystyrene (GPPS) has significant properties of transparency, rigidity, and process ability which are ideal for production of products, such as electrical parts, cassette tapes, CD boxes, household items, including foam boxes, food tray, etc. High Impact Polystyrene (HIPS) has significant properties of high impact strength, and process ability which are suitable for producing electrical parts, frame of TV, air conditioner, computers, toys, sanitary wares, office suppliers, plastic cup and tray, etc.

Resin Appearance Sample

ABS

Acrylonitrile Butadiene Styrene (ABS) features such significant properties as high impact strength, high heat and chemical resistance, high stiffness and high gloss including weather resistance. It is mainly used for the manufacturing of electrical parts, automotive parts, bicycle parts, household items, kitchenware, office supplies, toy, etc

AGENDA

I

Company Profile

II

Financial Highlight

III

Strategic Direction

IV

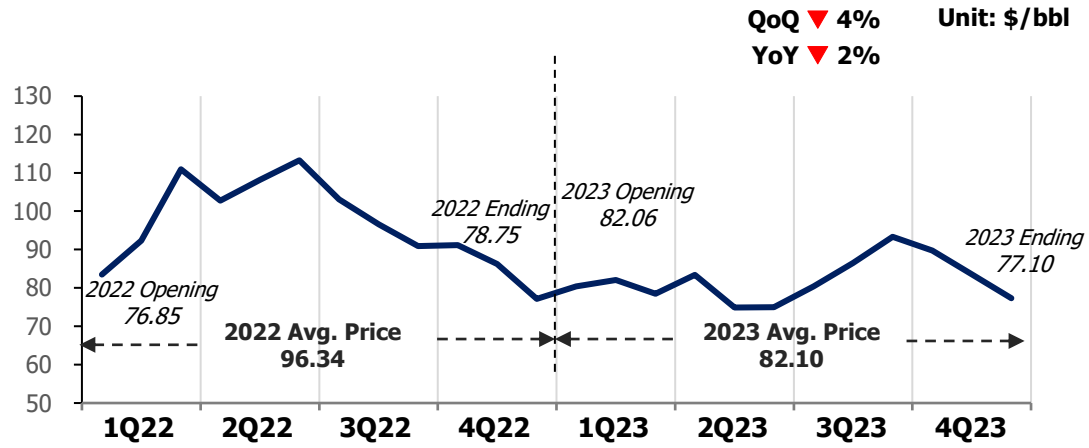
Project Update

V

Industry Outlook

Key Drivers

Dubai Crude Oil Price (average)



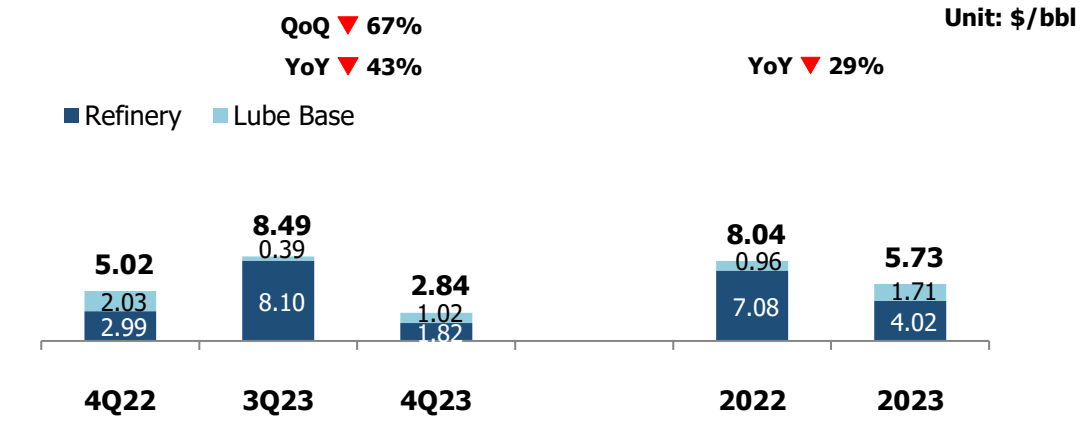
	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Avg. Quarterly	95.56	108.05	96.88	84.85	80.32	77.78	86.74	83.55

Foreign Exchange

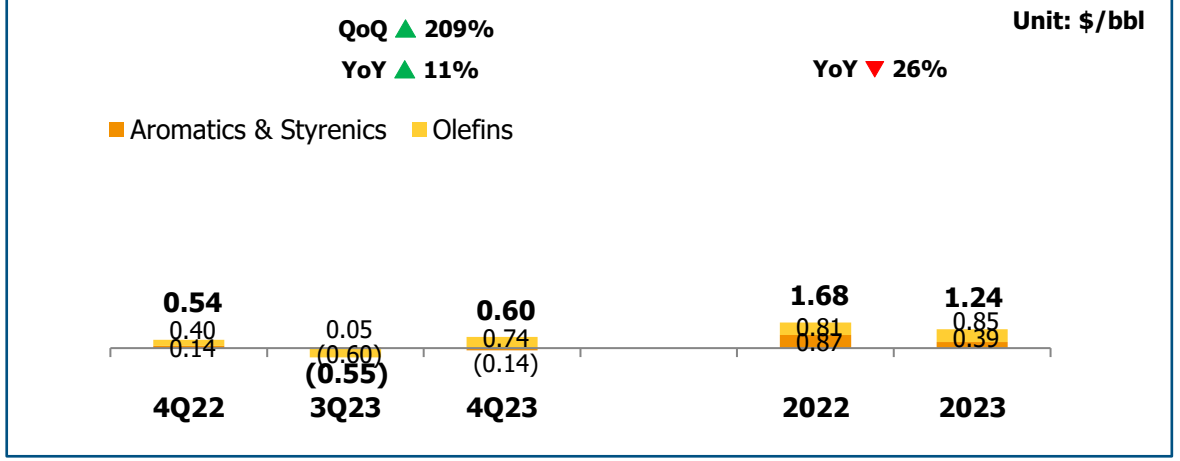
QoQ depreciated 1% YoY appreciated 2%

	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23
Avg. Quarterly	33.22	34.56	36.58	36.55	34.07	34.64	35.33	35.81

Gross Refining Margin (GRM)



Product to Feed Margin (PTF)



Financial Highlight: 2023 & 4Q23 performance

2023: Improved performance thanks to well-controlled oil hedging as well as cost & expense savings

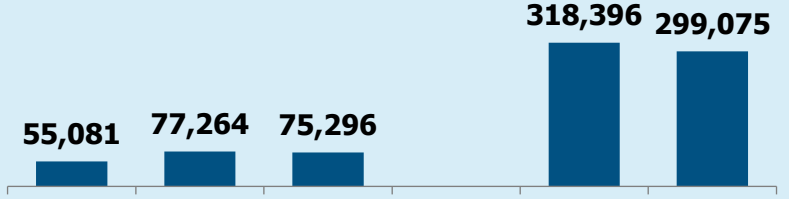
4Q23: Pressured performance due to stagnant petroleum market conditions while stable-to-soft petrochemical market conditions

	4Q22	3Q23	4Q23	2022	2023
Dubai (Avg.) Unit: $/bbl	84.85	86.74	83.55	96.34	82.10
Crude run KBD	119	187	192	175	192

Net Sales (net excise tax)

Unit: MB

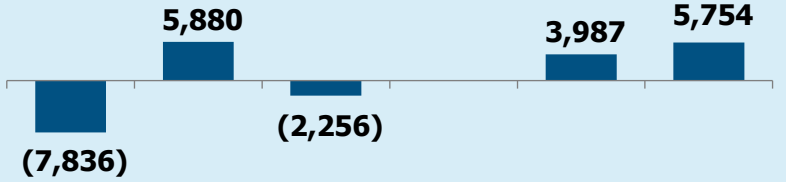
QoQ ▼ 3%
YoY ▲ 37%
YoY ▼ 6%



EBITDA

Unit: MB

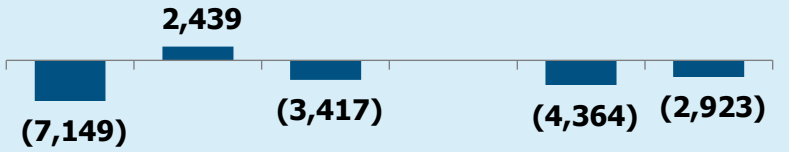
QoQ ▼ 138%
YoY ▲ 71%
YoY ▲ 44%



Net Income

Unit: MB

QoQ ▼ 240%
YoY ▲ 52%
YoY ▲ 33%

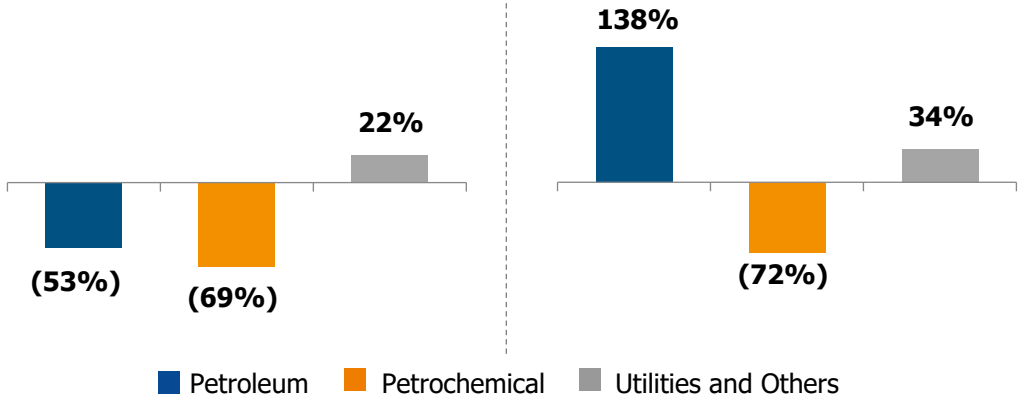


	4Q22	3Q23	4Q23	2022	2023
GRM ($/bbl)	5.02	8.49	2.84	8.04	5.73
PTF ($/bbl)	0.54	(0.55)	0.60	1.68	1.24
PW & UT ($/bbl)	0.94	0.93	0.87	0.85	0.93
Market GIM ($/bbl)	**6.50**	**8.87**	**4.31**	**10.57**	**7.90**
Net Inventory G/(L) ($/bbl)	(17.00)	5.89	(3.15)	(2.82)	(0.46)
Acct. GIM ($/bbl)	**(10.50)**	**14.76**	**1.16**	**7.75**	**7.44**

EBITDA Portion by Business

4Q23 (2,256) MB

2023 5,754 MB



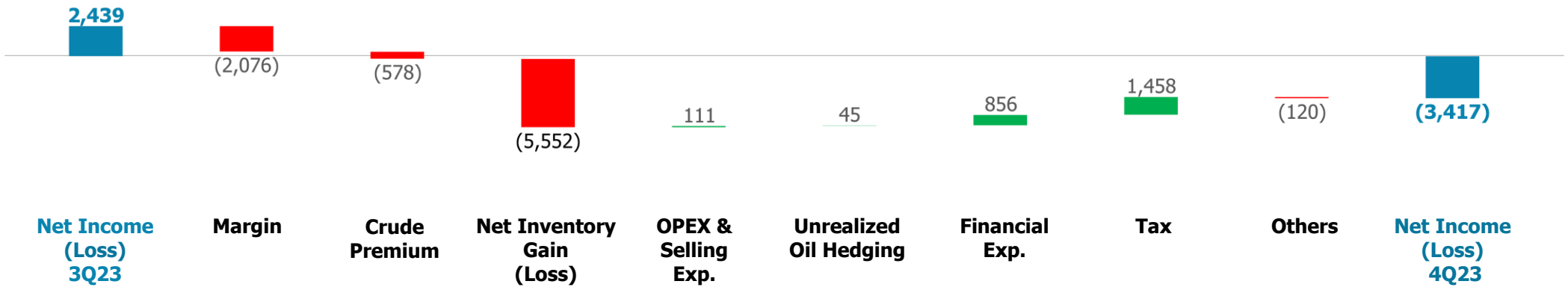
*Net Inventory Gain/(Loss) = Stock Gain/(Loss) + NRV + Realized Oil Hedging Gain/(Loss)

Income Statement Comparison : QoQ 2023 & YoY

Unit: MB

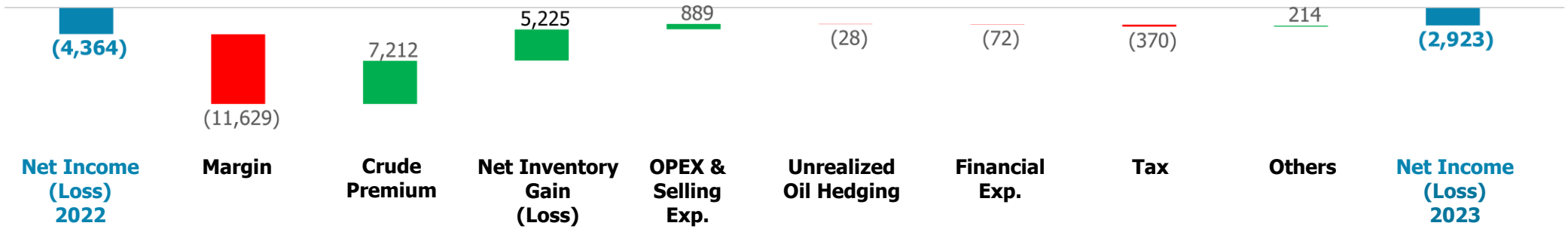
4Q23 VS 3Q23: Net inventory loss in 4Q23 was a main factor lessening the performance

Net Income ▼ 240%



2023 VS 2022: Softened margin was a key aspect weighting the performance

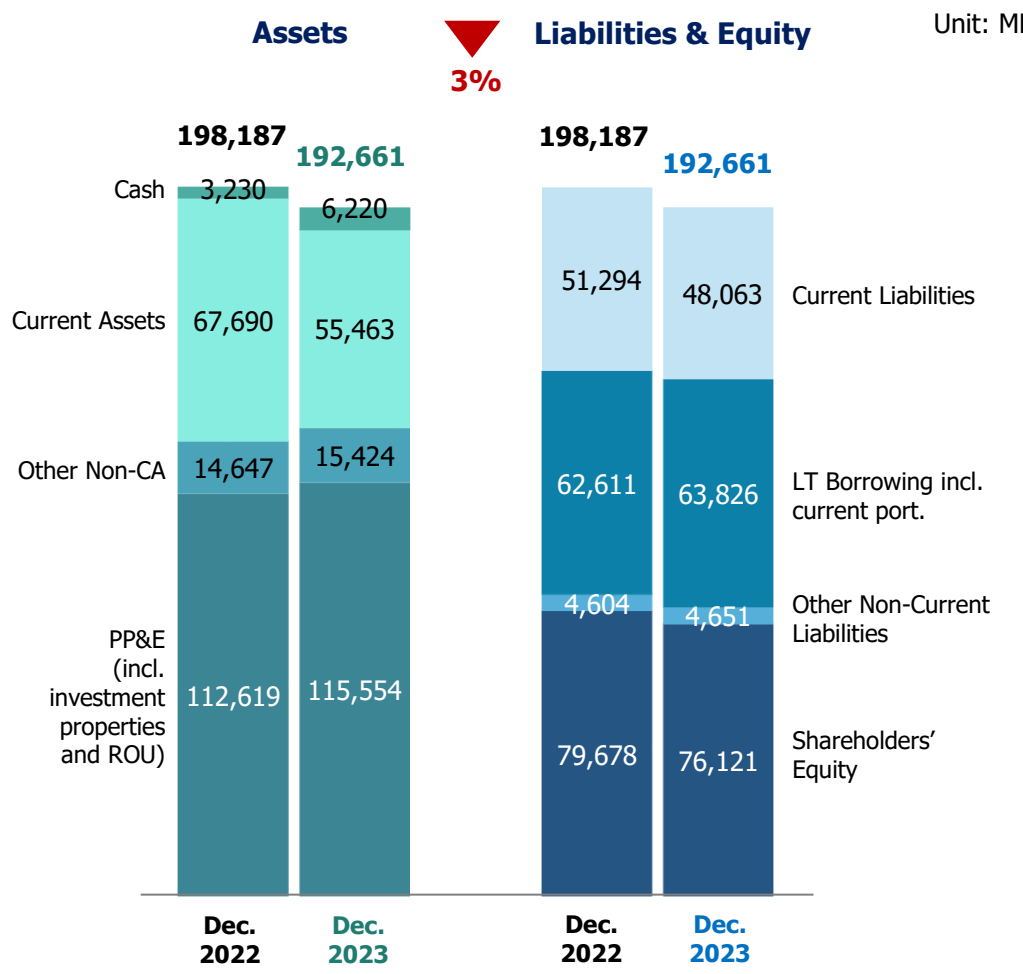
Net Income ▲ 33%



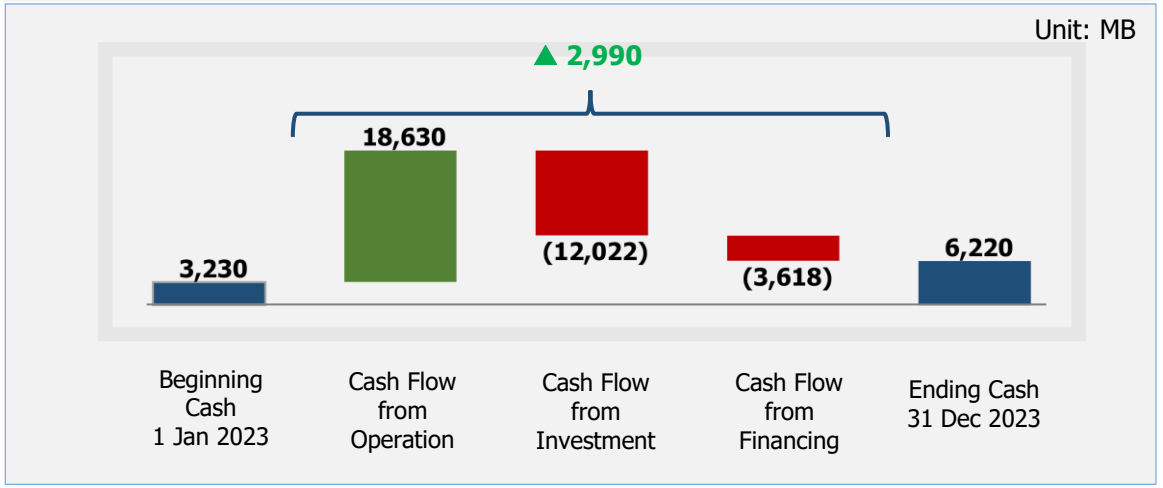
Financial Position

Secure financial position among sluggish market situations

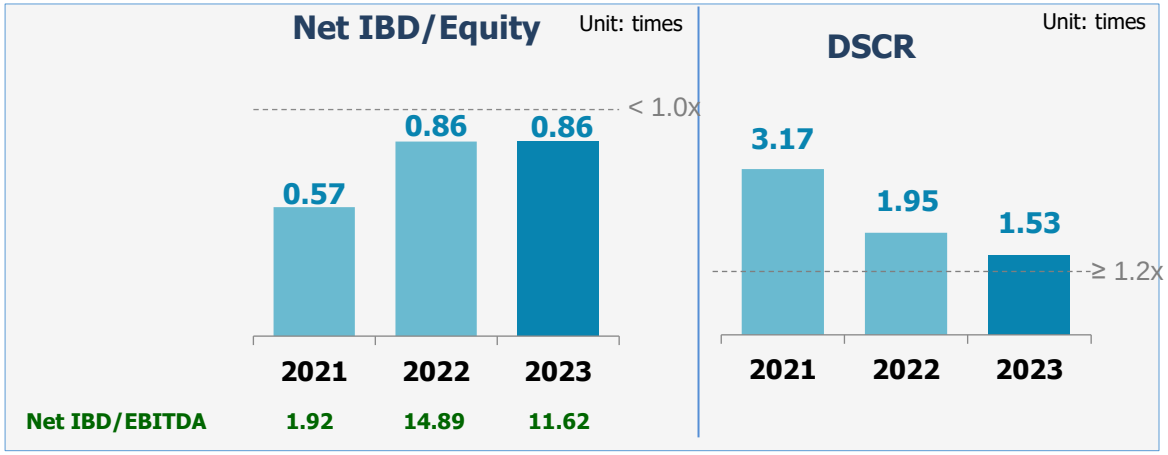
Statements of Financial Position



Cash Flow



Financial Ratios



AGENDA

I

Company Profile

II

Financial Highlight

III

Strategic Direction

IV

Project Update

V

Industry Outlook

IRPC's Strategic Framework

Vision: To Shape **Material and Energy Solutions** in Harmony with Life

Frontiers of Growth:

Core:

Extract more from existing assets

Step Up & Beyond:

Expand through vertical integration and new value chain

5 Future Businesses:

Green & Circular

Health & Life Science

Future Energy

Advanced Materials

Assets & Services

Sustainability:

- Climate Change (Net Zero)
- Circular Economy
- Creating Shared Value

Strategic Enabler:

- Process & Digitalization
- Financial & Funding
- Organization Transformation

Frontiers of Growth: Core Uplift

Refinery vs Petrochemical full-flexibility

Implement full-flexibility optimization between Refinery and Petrochemical to maximize value

- Enhance efficiency in petroleum production
- Manage the balance in petrochemical production
- Conversion cost analysis

PETROLEUM BUSINESS: DOMESTIC FIRST

All products focus on Thailand market

Refined products, Lube Base Oil and Aromatic

Core

ASSET MANAGEMENT: ENHANCE SERVICE INCOME

Utilize Asset & Stabilize Income

Land, Port & Tank Services

PETROCHEMICAL BUSINESS: Specialty Boost

Shift products portfolio to high valued application

Healthcare, automotive, electrical appliance and construction application

On Top of Frontier

Keep implementing SOS* program	Collaboration with PTT group	Capex prioritization	Subsidiary Management

*SOS: Save Overcome Strive

Frontiers of Growth: Step Up & Beyond to IGNITE to new business

Health & Life Science

Advanced Materials

Green & Circular

Future Energy

Assets & Services

Step Up & Beyond:

Explore New Growth Engine

Medical & Hygiene

Power Storage

Recycling Business

Solar Captive

Solar Pontoon

Hospital & Wellness

BPK บางปะกอก BPK HOSPITAL GROUP

Commercialize innovation

Beyond Frontier

Organic Growth | **Accelerated Growth (Investing & Partnership)**

Growth from Incubation

1 Product Portfolio

ZiO-2

New Gen Fertilizer

Silver Nano

Carbon Platform

Fabric

RFID

Supercapacitor

2 Business Partner Network

VISTEC, Chula, VJR LAB, สีเบเยอร์ beger, NSG

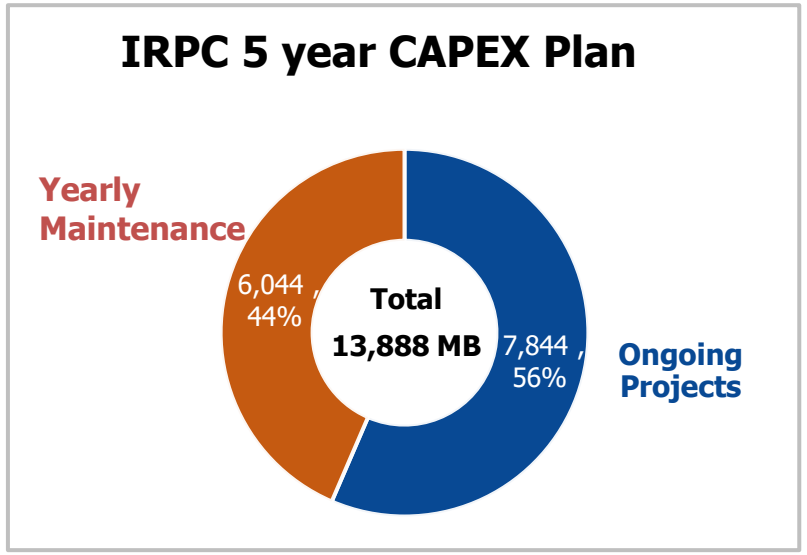
On Top of Frontier

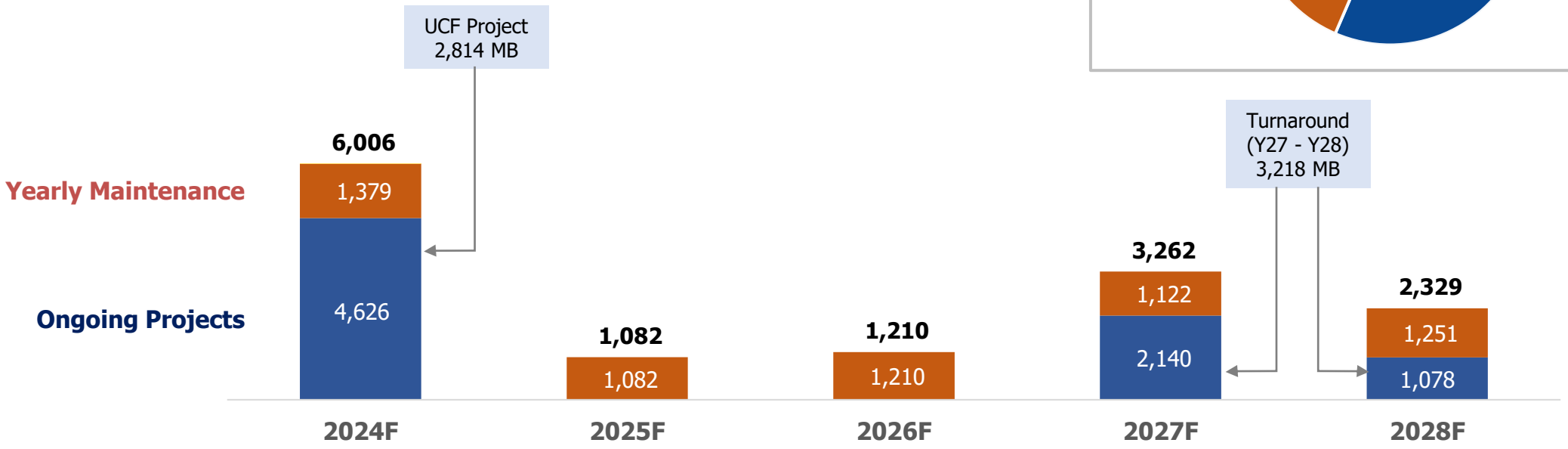
- **Keep implementing SOS* program**
- **Collaboration with PTT group**
- **Capex prioritization**
- **Subsidiary Management**

*SOS: Save Overcome Strive

Ongoing/Committed CAPEX Plan in 2024 – 2028

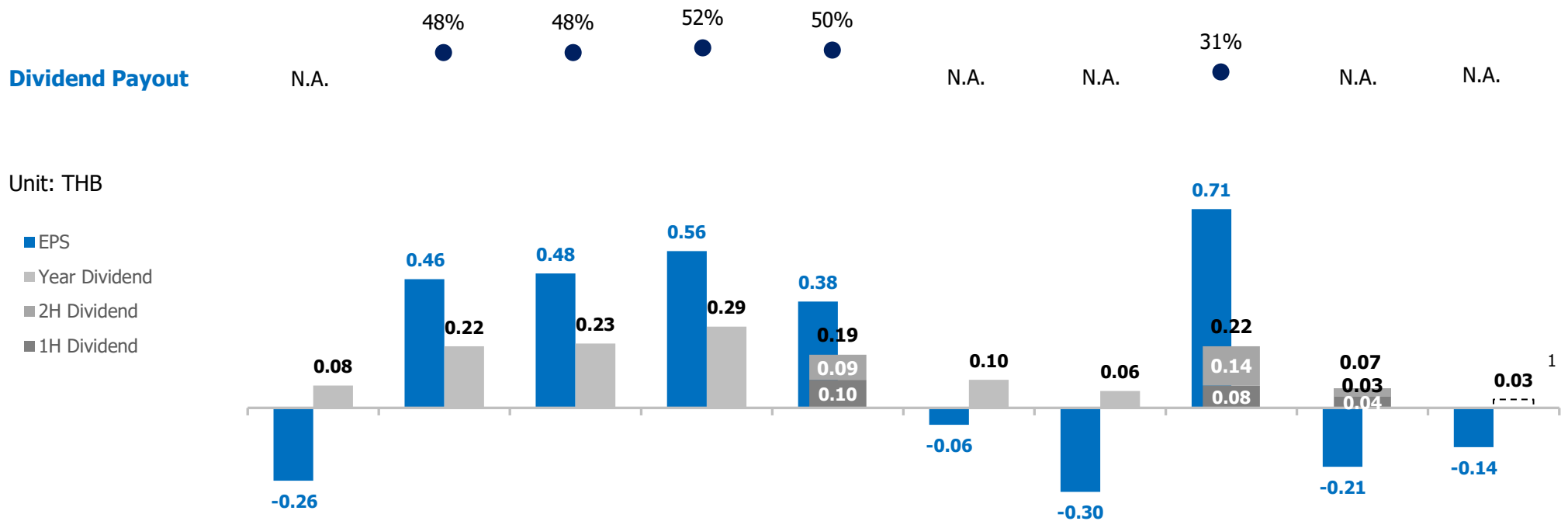
Unit: MB





Dividend

IRPC pays at 31-52% payout ratio with average dividend yield of 3.4%



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Dividend Yield	2.6%	5.1%	4.8%	4.1%	3.3%	2.7%	1.6%	5.7%	2.3%	1.5%
Share Price [2]	3.06	4.30	4.80	7.05	5.75	3.68	3.72	3.84	3.02	2.02

Note: [1] 2023 Dividend is subject to the approval of the Company's Annual General Meeting of shareholders for the year 2024

[2] Closing price at the end of period

AGENDA

I

Company Profile

II

Financial Highlight

III

Strategic Direction

IV

Project Update

V

Industry Outlook

Project Update

Ultra Clean Fuel (UCF) Project

Diesel hydro-treating Unit (DHT Unit)

Objective : Upgrading HSGO to LSGO to meet Euro5 specification

Capacity : ⬆ 75 KBD (of DHT Unit)

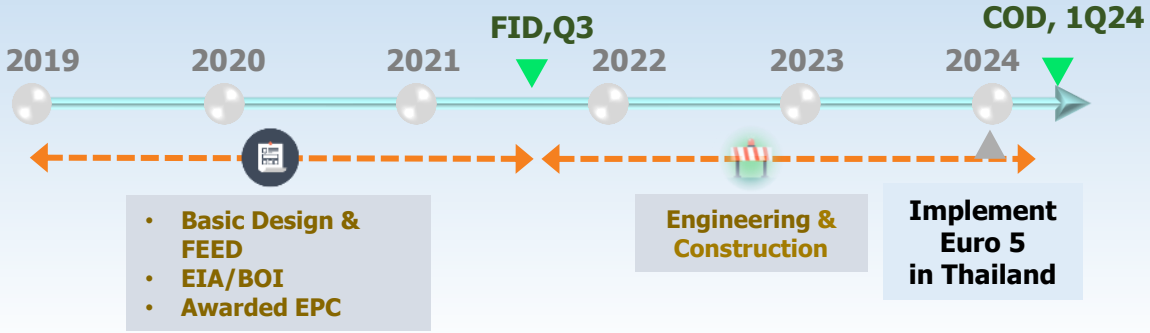
CAPEX : 13,300 MB (~ 420 M$)

COD : 1Q24

Status : **Commissioning**

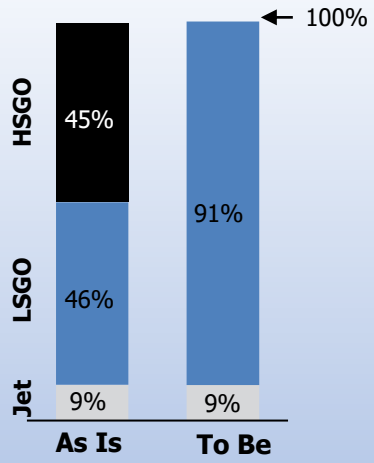
Enforcement of the Euro 5 diesel regulation in Thailand

Timeline



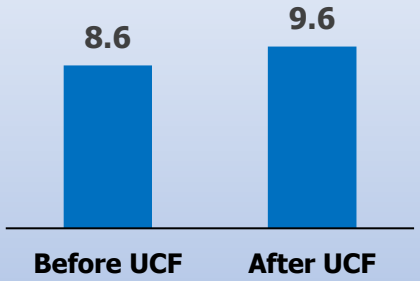
What next for IRPC

Diesel Portfolio Changed



Increase Competitiveness

Nelson Complexity Index (NCI)



Progress

AGENDA

I

Company Profile

II

Financial Highlight

III

Strategic Direction

IV

Project Update

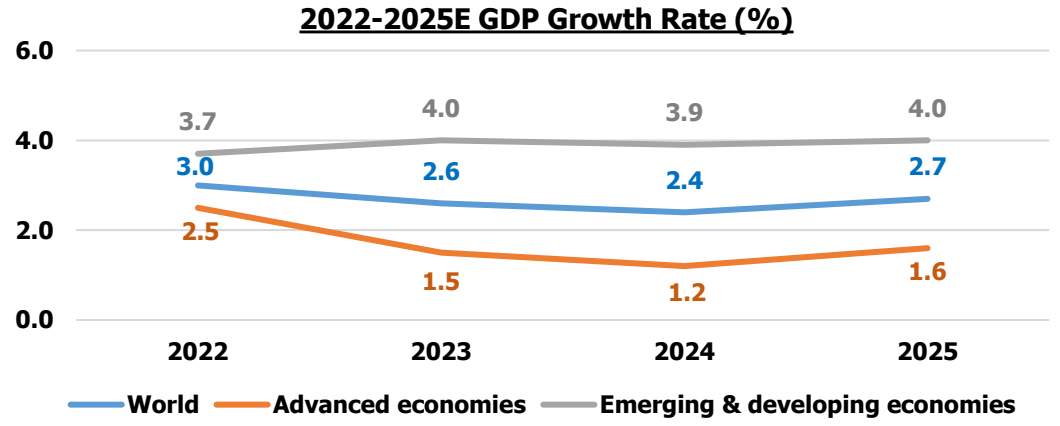
V

Industry Outlook

Petroleum
Outlook

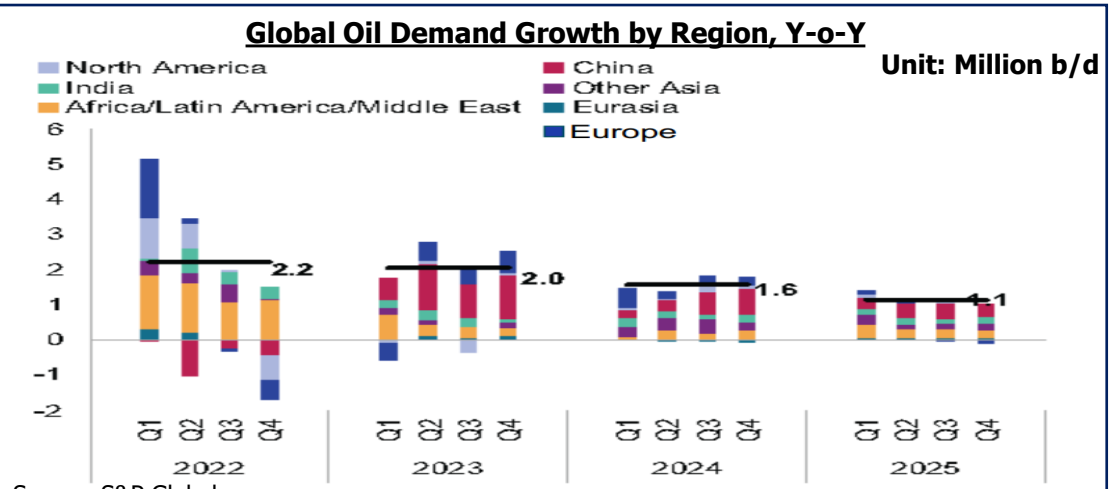
Oil Demand Outlook

Global economic growth exhibits a stagnant perspective



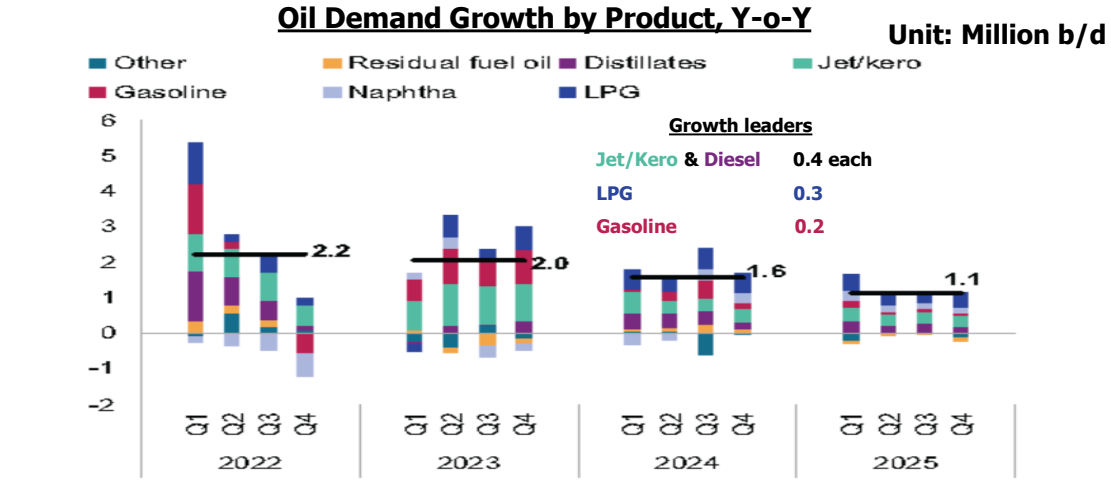
Source: World Bank

China remains a key for 2024 oil demand growth despite uncertainties



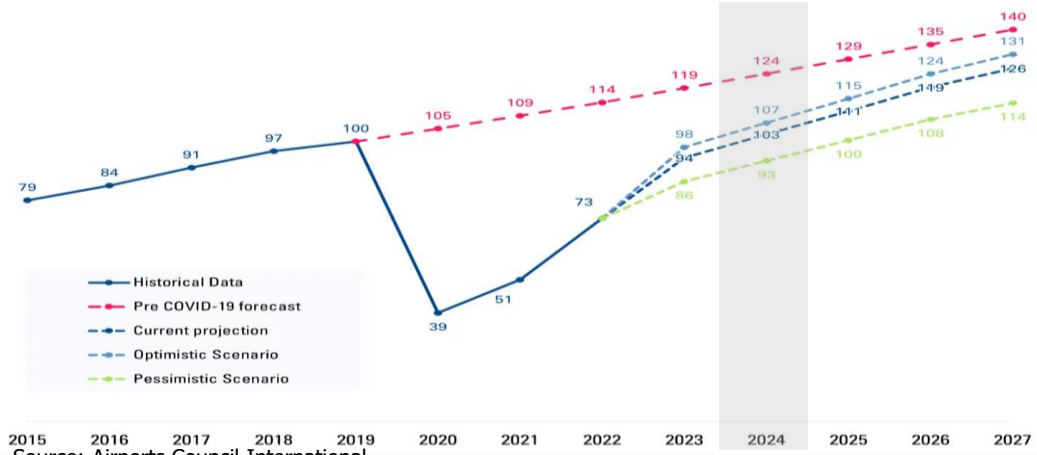
Source: S&P Global

Jet Fuel & Diesel to be major growth contributors in 2024



Source: S&P Global

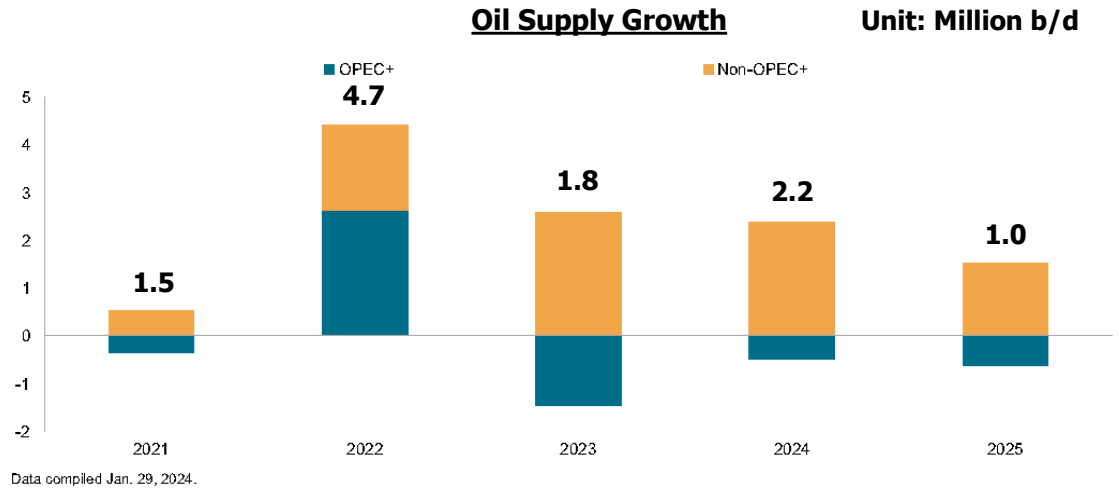
Improving aviation outlook is projected in 2024



Source: Airports Council International

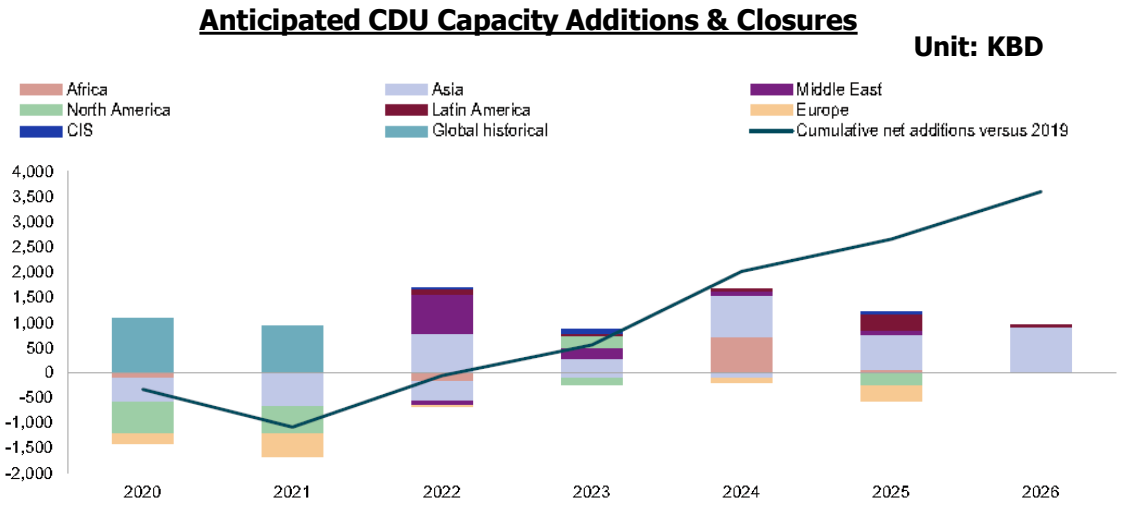
Oil Supply Outlook

U.S. will drive 2024 oil supply growth while OPEC+ cut still takes place



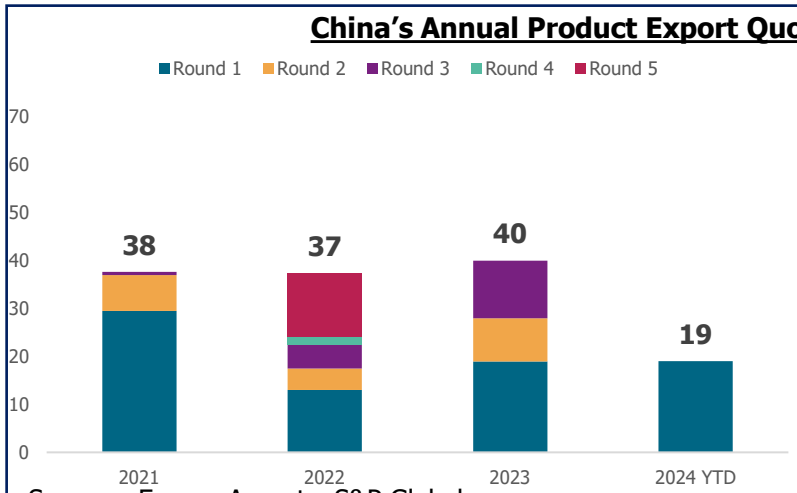
Source: S&P Global

CDU capacity additions to loosen product supply modestly



Source: S&P Global

Impacts of China's product export quotas need to be watched

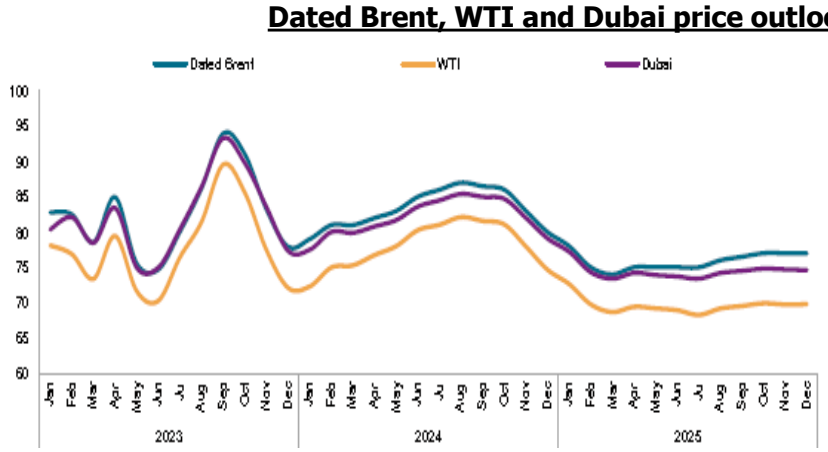


Each export quota includes Gasoline, Diesel and Jet Fuel

1st round of 2024 was issued in early-Jan

Sources: Energy Aspects, S&P Global

Uncertain crude oil price trends amid complex market factors

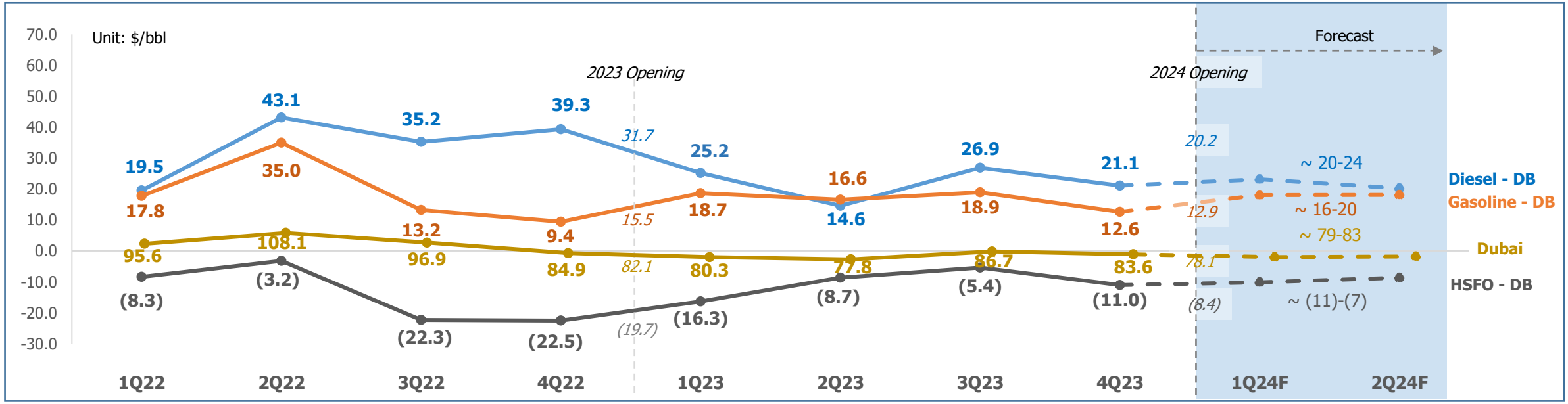


Factors to watch

- Inflation
- China's economic conditions
- Geopolitics

Source: S&P Global

1H24 Petroleum Product Spread and Dubai Crude Price Outlook



Source: IRPC's estimate

Diesel

+ Stirring geopolitical situations uphold the price owing to market concerns
+ Heating demand in early-2024 followed by construction & agricultural demand in Asia during warmer climate
- China's 1st batch of 2024 export quota expected to put some weight on the market
- Refinery CODs prone to ease some Diesel output

Gasoline

+ Summer & general elections in India expected to boost Gasoline demand in 2Q24
+ Tighten Gasoline supply from China's refinery maintenance in 2Q24
- China's 1st batch of 2024 export quota expected to put some weight on the market
- Refinery CODs prone to ease some Gasoline output

Fuel Oil

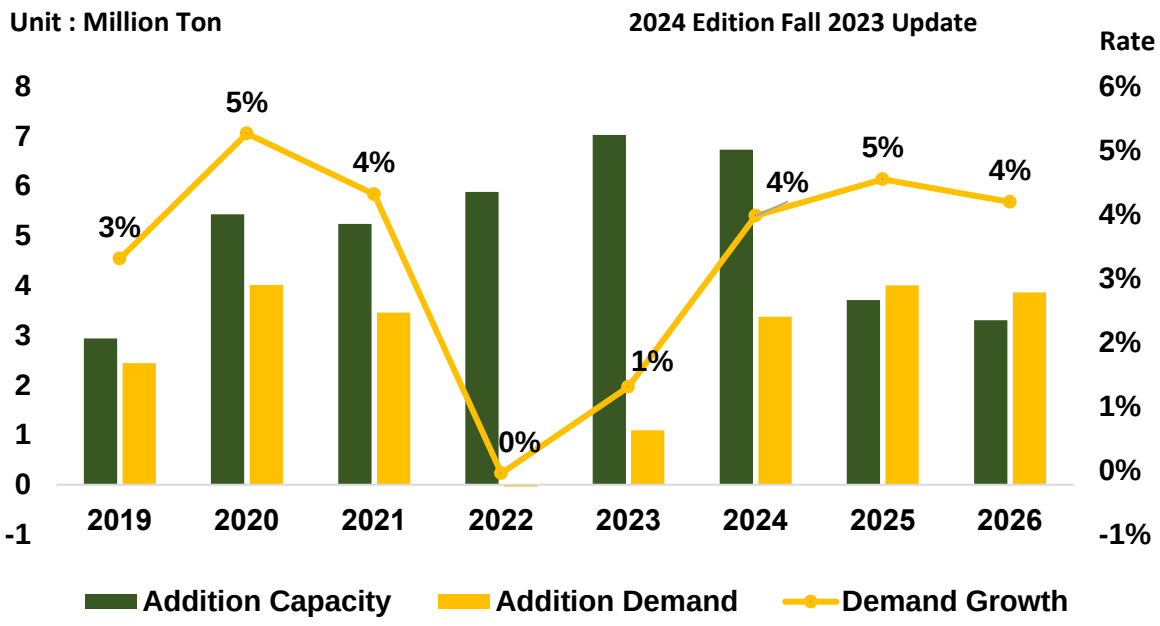
+ Limited Fuel Oil output supporting the price as the result of OPEC+ cut
+ Stirring geopolitical situations uphold the price owing to market concerns
- Some power producers potentially attracted by competitive trends of natural gas prices
- Refinery CODs prone to ease some Fuel Oil output

Petrochemical
Outlook

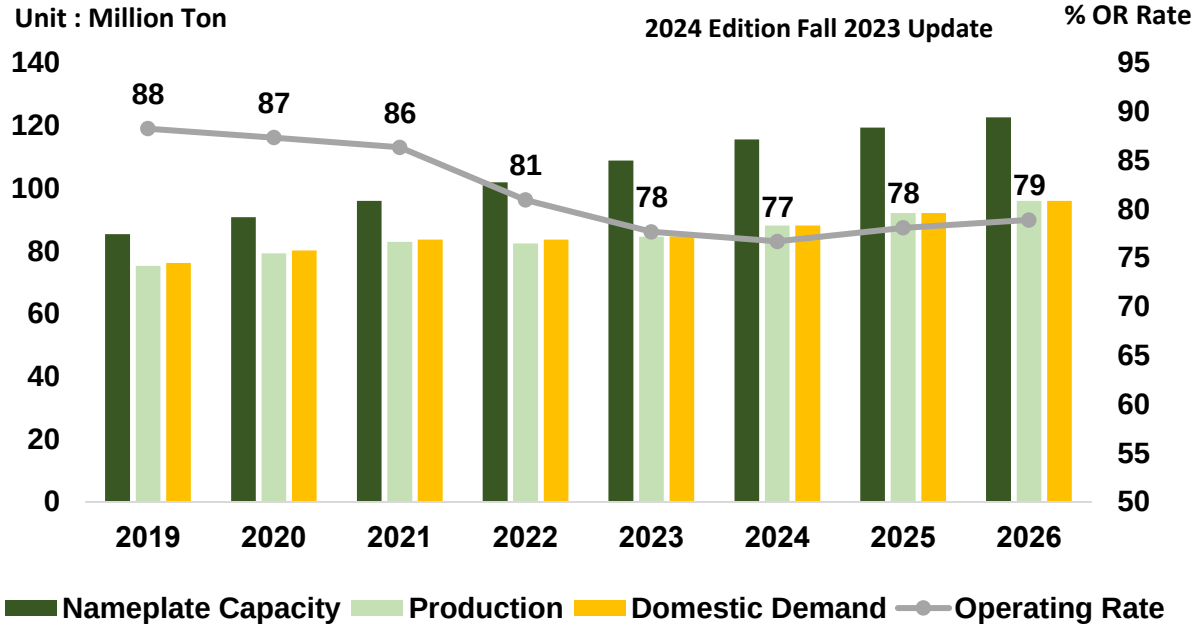
Petrochemical Outlook

PP: India will also contribute growing shares to global PP demand growth.

Global PP Addition Capacity and Demand Growth



Global PP Capacity and Demand



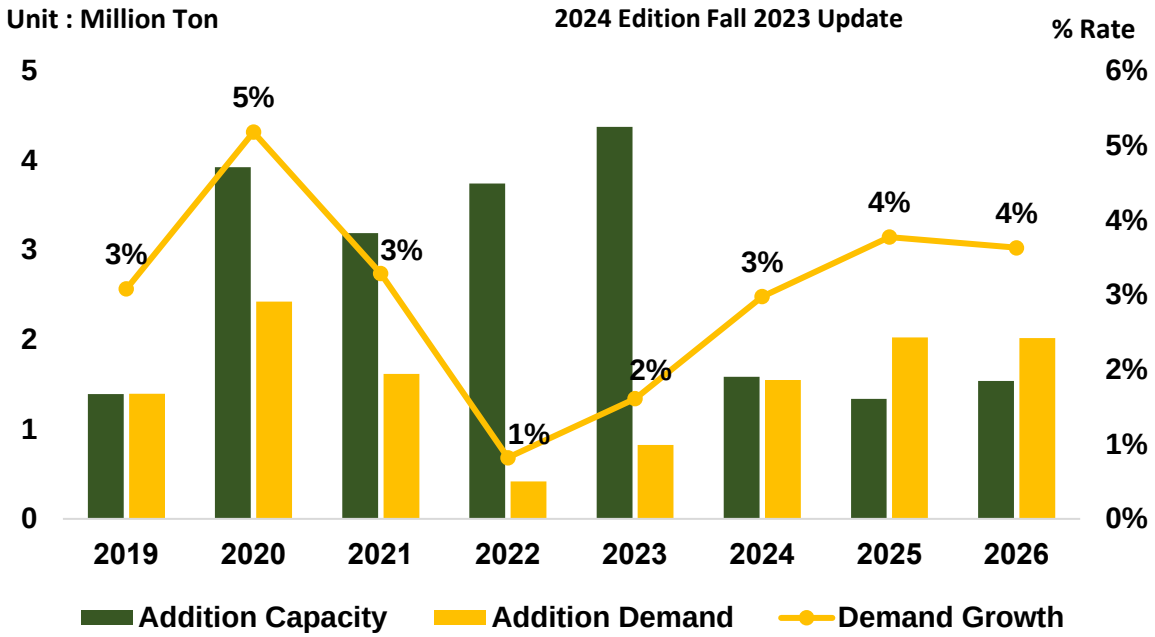
- E-commerce, Food packaging and Medical equipment spending will support PP demand
- Addition supply is primarily from mainland China for its self-sufficiency
- Weaker economic conditions reinforce impact of global capacity wave
- Over the longer-term, China's role as the main global PP demand driver will be diminishing.
- Sustainability and recycling initiatives are regaining widespread support

Source: World Analysis Report, Dow Jones

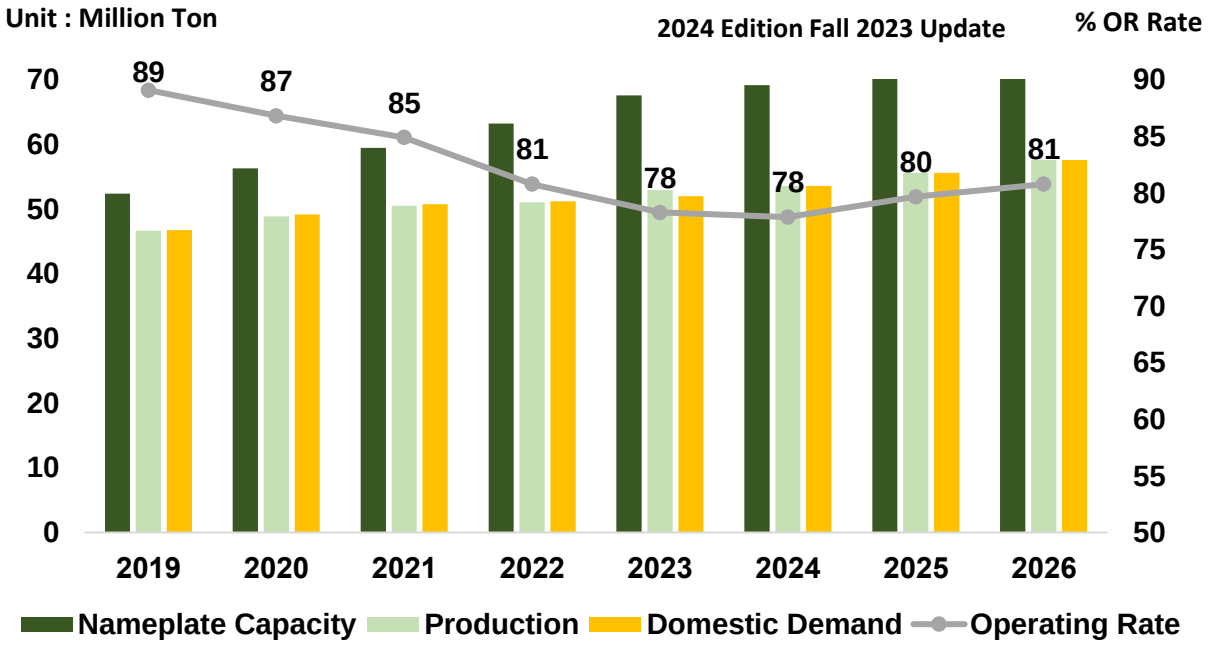
Petrochemical Outlook

HDPE : Demand driven by infrastructure & building

Global HDPE Addition Capacity and Demand Growth



Global HDPE Capacity and Demand



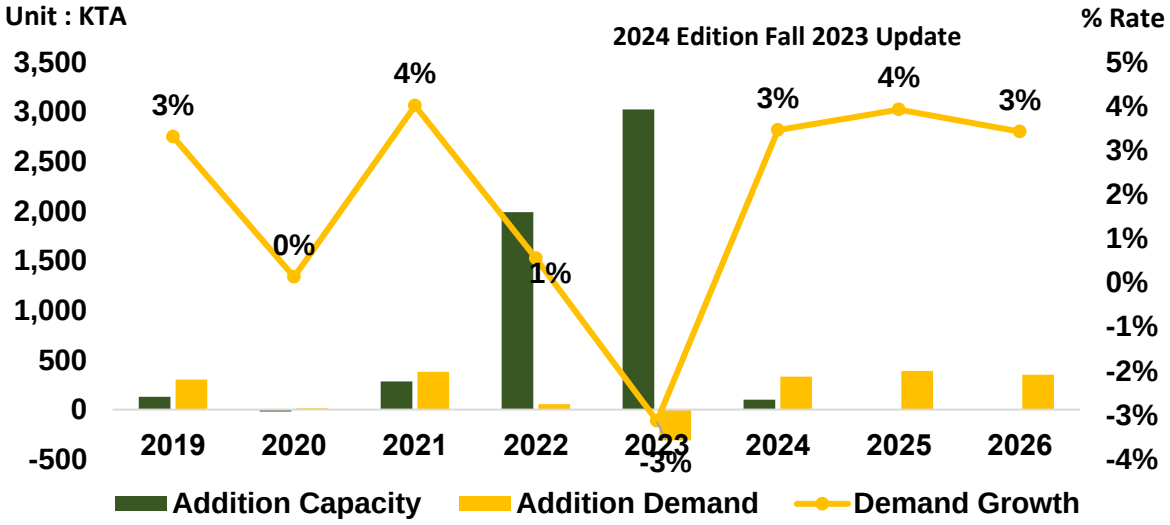
- **Demand will be supported by increased government spending on infrastructure and building projects.**
- **Capacity wave add up by China for self sufficiency**
- **China's significance as global demand driver will lessen over the longer term**
- **Many sustainability initiatives by governments and environmental groups that affect consumption**
- **International sanctions on Russia are redirecting trade flows**

Source: World Analysis Report, Dow Jones

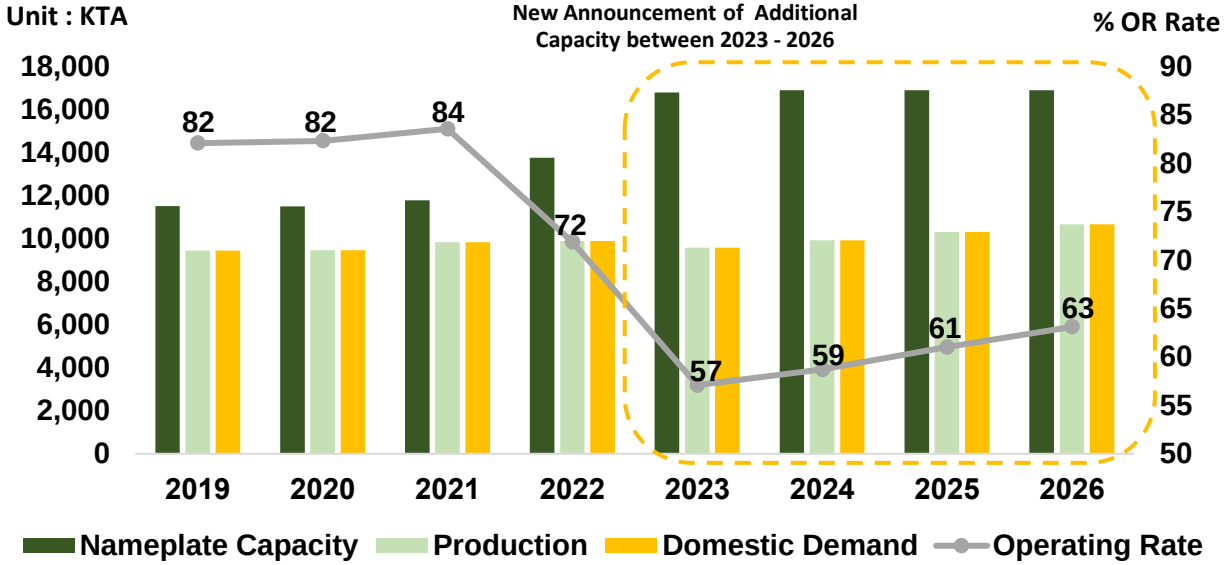
Petrochemical Outlook

ABS : Demand driven by Mega trends in the future

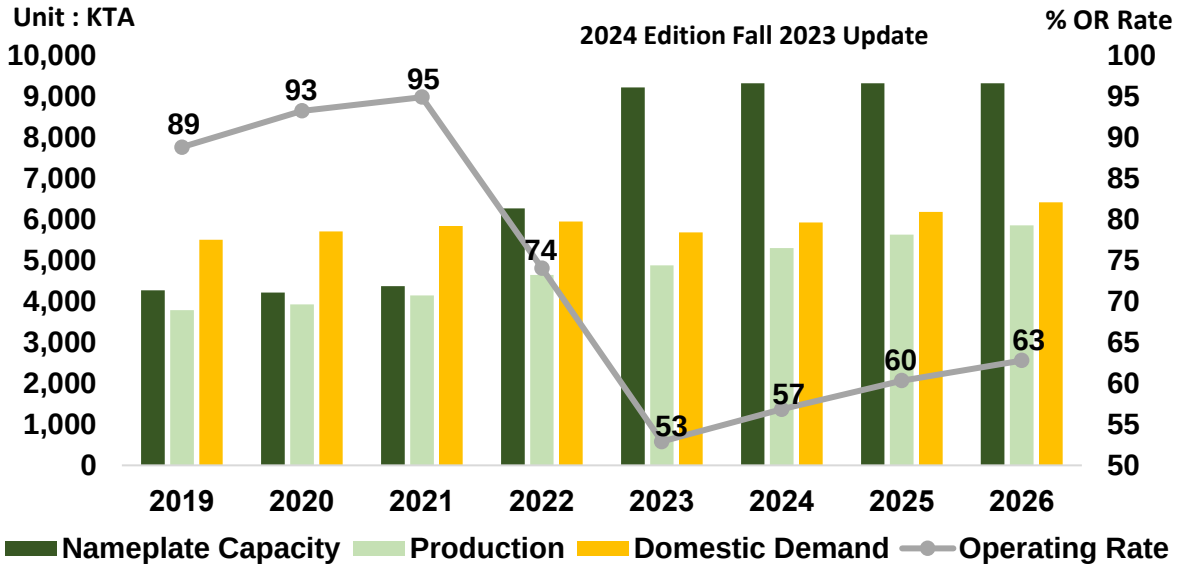
Global ABS Addition Capacity and Demand Growth



Global ABS Capacity and Demand

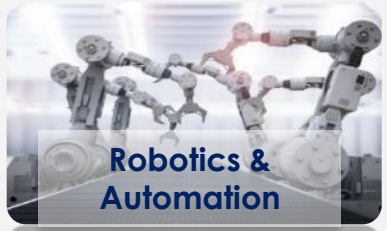


China ABS Capacity and Demand



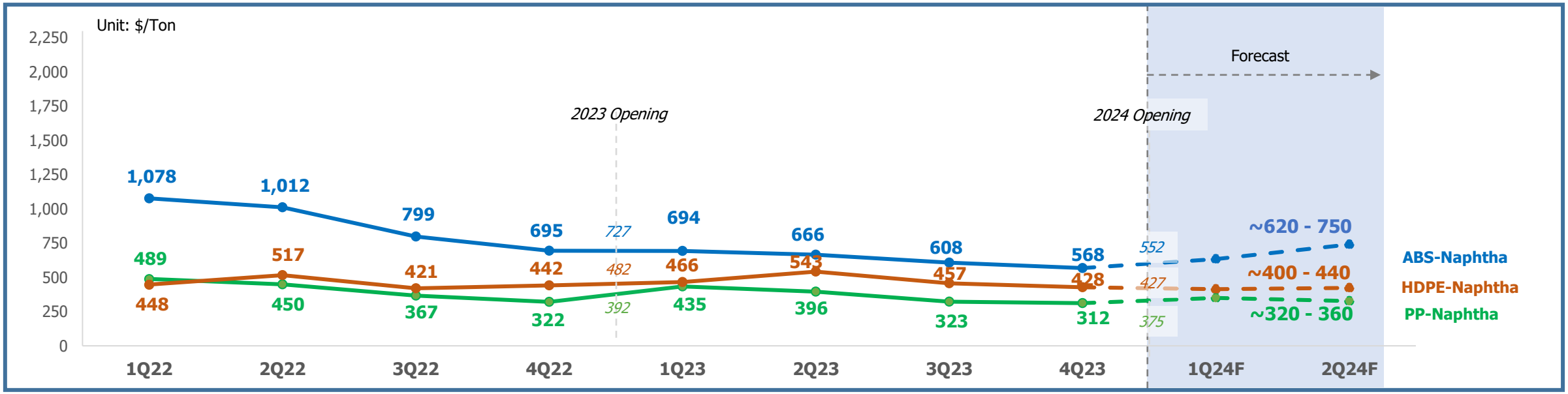
Key Engine for ABS Market Continue to Growth

- **Strong demand driven by Smart Electricals, EV cars, Robotics & Automation keeping utilization high**



Source: World Analysis Report, Dow Jones

1H24 Petrochemical Product Spread Outlook



Source: IRPC's estimate

PP

- \+ Demand recovery expected in late April (post-long holiday)
- – Challenges continued in China's economy
- – Pressure from new capacity addition generated by China

HDPE

- \+ Positive demand outlook for pipe market towards warmer weather
- – Concern about real estate challenges in China
- – Construction industry struggling amid high interest rates

ABS

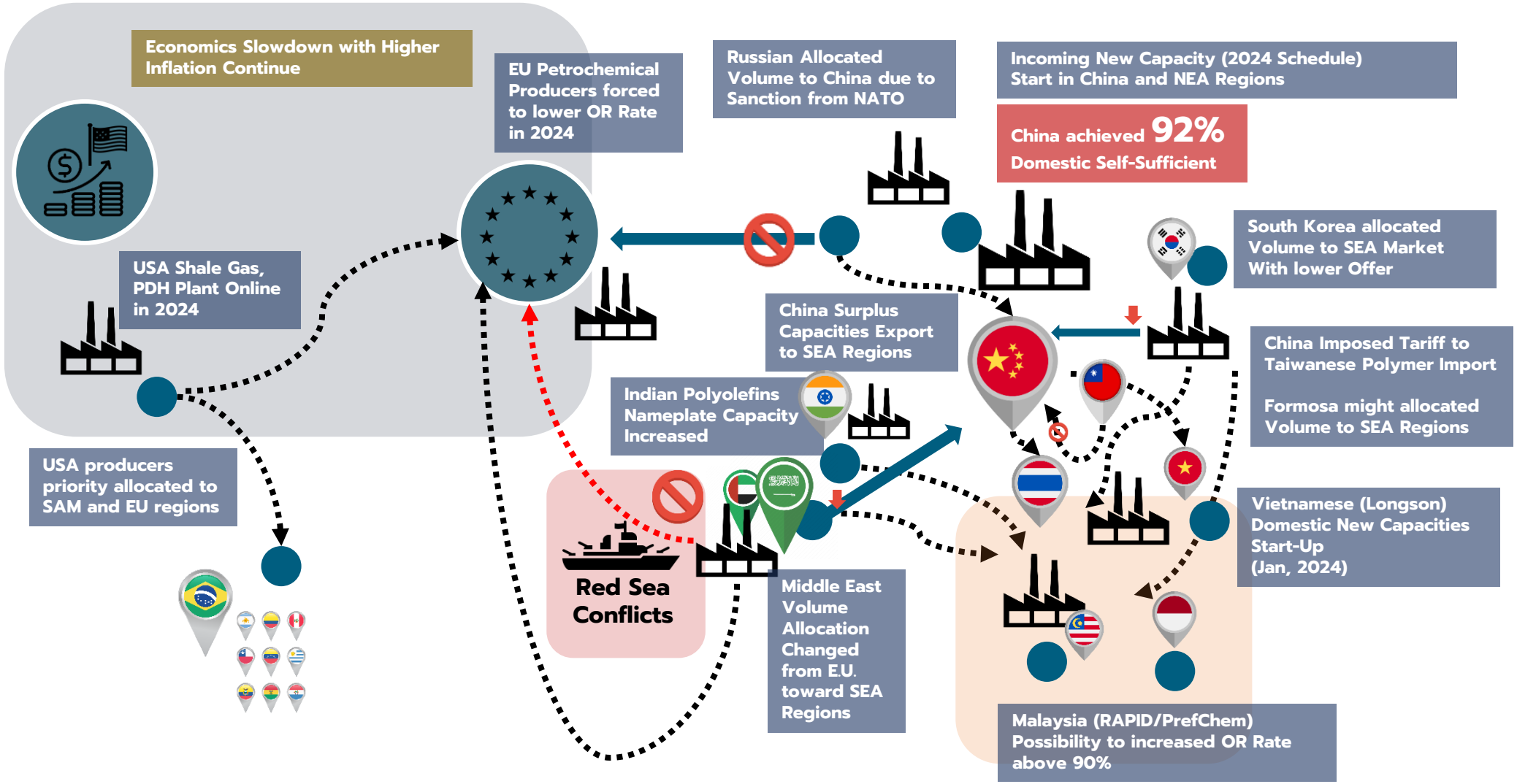
- \+ Healthy automotive applications expected driven by China
- – Inflation coupled with higher interest rates through low consumer spending
- – Pressure from new capacity addition generated by China

Petrochemical Industries Outlook in 2024

Global Recession Continue

China Economy Remain Soft

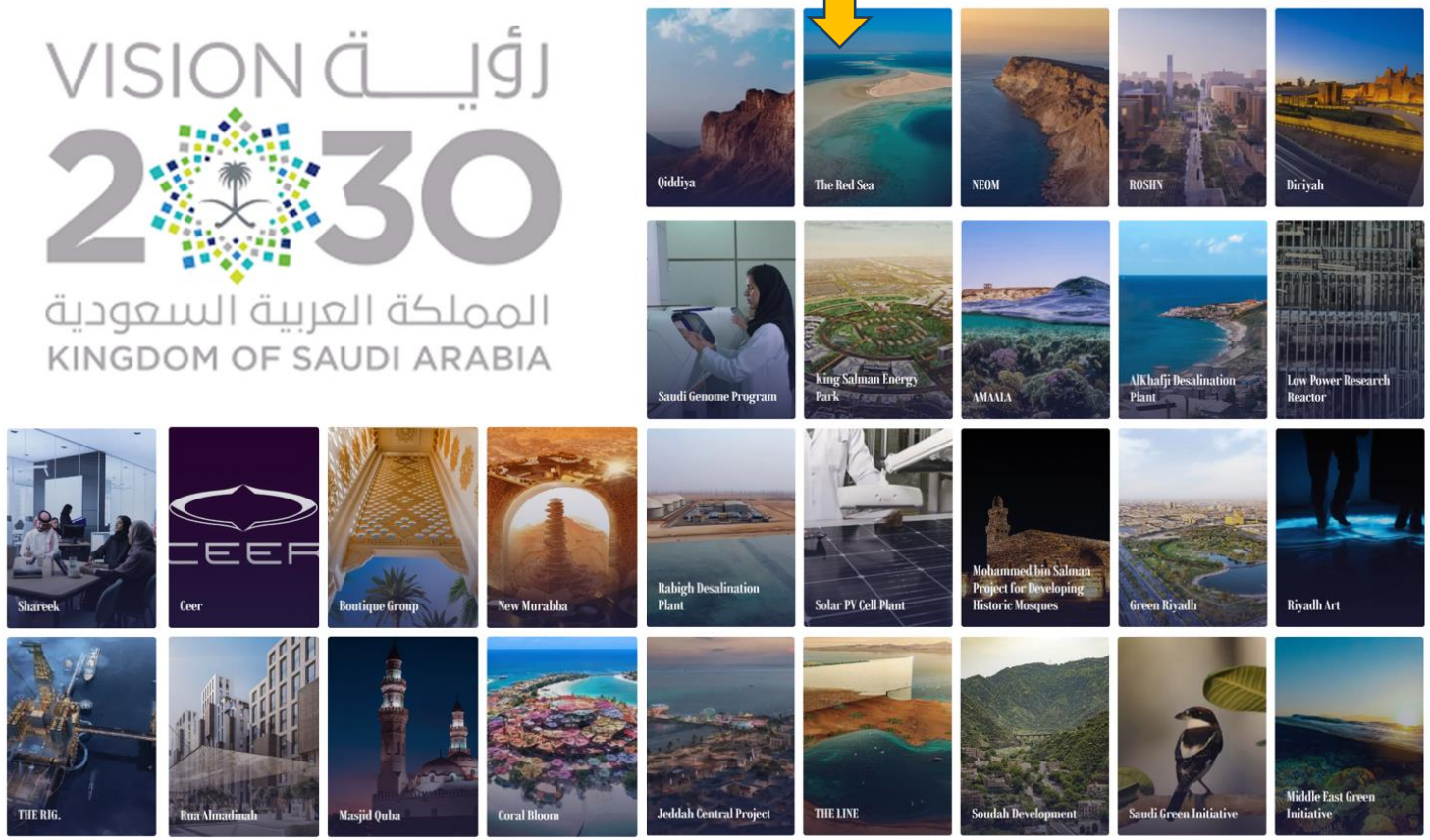
Crude Price Volatilee



Note :
- There are no new additional capacities in SEA regions this year
- Lotte Chemical (Indonesia) Start up delay in 2025

Petrochemical Industries Direction After 2025

Now 2024 | **Made in China 2025** | **Milestone 2027** | **Saudi Vision 2030**



Presentation is available at

www.irpc.co.th

Click "Presentations"

THANK YOU

INVESTOR RELATIONS

CONTACT: IR@IRPC.CO.TH

TEL. +662-765-7380

FAX. +662-765-7379

Disclaimers

This presentation material has been prepared solely for informational purposes only. IRPC is furnishing it solely for use by prospective investors / analysts in the proposed event. IRPC makes no representations or warranties as to the accuracy or completeness of such information. By accepting this material each recipient agrees that IRPC shall not have any liability for any representations (express or implied) contained in, or for any omissions from this presentation.

The information contained herein does not purport to be all-inclusive or to contain all of the Information that may be material to the recipient's decision. Each recipient of the information and data contained herein should perform its own independent investigation and analysis of the transaction and the creditworthiness of IRPC . Reference in this Disclaimer to this shall include references to the Appendices (if any) hereto.

APPENDIX

TO SHAPE
MATERIAL
AND ENERGY
SOLUTIONS
IN HARMONY
WITH LIFE

Y2023 IRPC's Key Highlight

Performance

- **Declining Market GIM** caused by decelerated global economic conditions
- **Improved hedging** to reduce fluctuation
- **One-time benefit**: Gain on impairment from the reversal impairment on spare part in 1Q23

Finance

Bond Issuance 12,000 MB

Loan preparation

Production

- **Resuming operation as normal** after completed refinery T/A in 4Q22
- **Floating Solar expansion 8.5 MW** for PP Plant utilizing existing facilities: COD in Dec 2023
- **Commercial Shutdown (Petchem plant)** following market situation

Strategy

- Marginal Boost up Plan thru **Save Overcome Strive (SOS)**
- **Subsidiaries Management**
  - WHAIER: Capital increase & Starting sell lands in phase1
  - Dissolution of iPolymer
- Extend growth through **collaboration**

BPK บางปะกอก BPK HOSPITAL GROUP

VISUP

Commercial

- Escalated **Specialty Portion** from 22% in 2022 to 33% in 2023
- **Distribution channel expansion** to serve UCF

Sustainability

20% GHG reduction by 2030

Carbon Neutrality in 2050

Net Zero in 2060

3 Sustainability Strategy

- Climate Change Management
- Circular Economy
- Social Value Creation

Maintenance Shutdown Plan 2024 (Updated February 2024)

Unit: Days

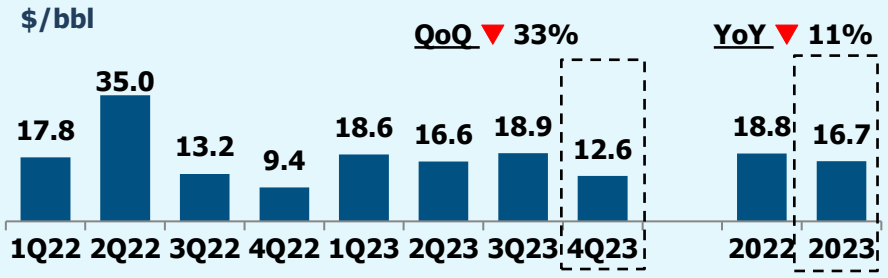
Plant		2024												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum	ADU1													-
Petroleum	ADU2													-
Petroleum	RDCC										46			46
Petroleum	LUBE	15											10	25
Petrochemical	EBSM													-
Petrochemical	HDPE			24						6				30
Petrochemical	PP	14*				4			11			2		31
Petrochemical	ABS/SAN	74*												74
Petrochemical	PS	9					17							26

* Commercial shutdowns are included

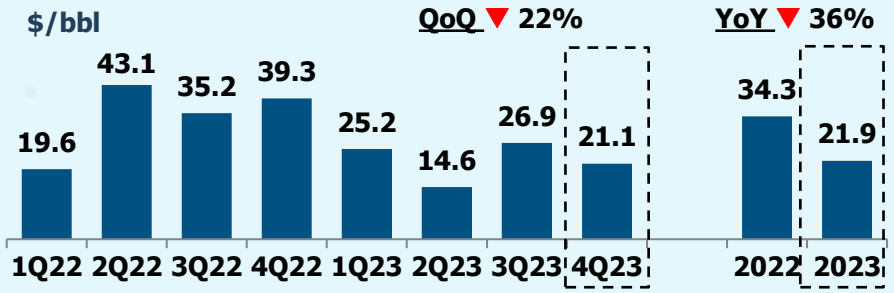
Petroleum Products Spread

Refinery Spread

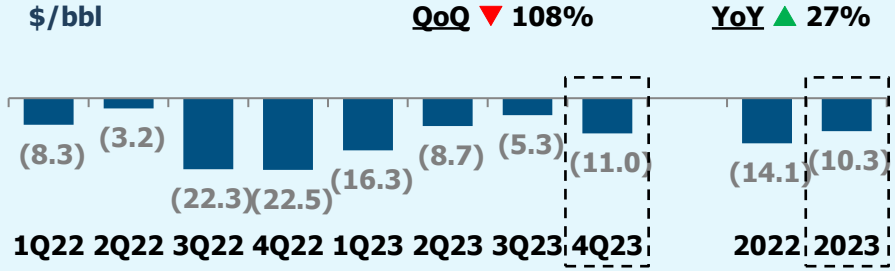
ULG 95 - Dubai



Gas Oil - Dubai

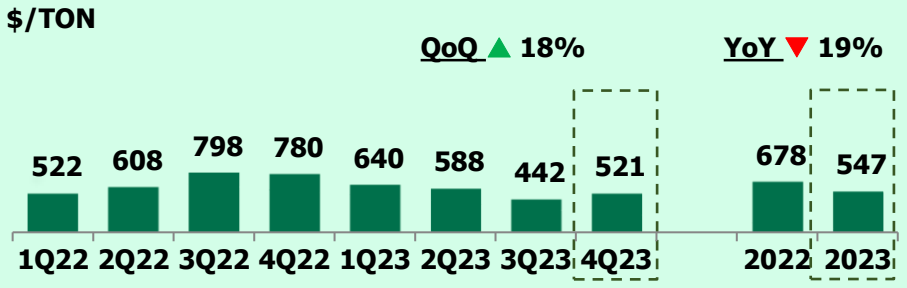


HSFO - Dubai

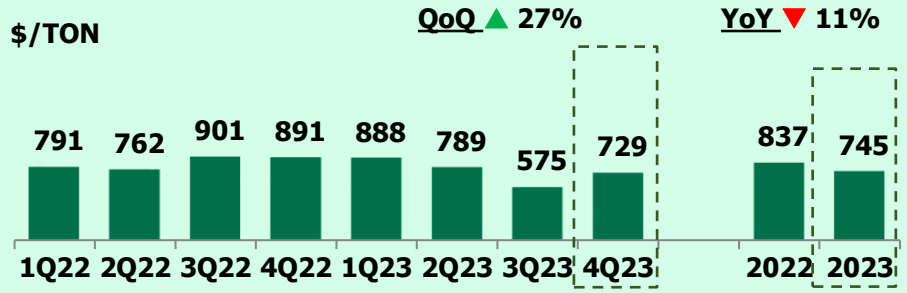


Lube Base Spread

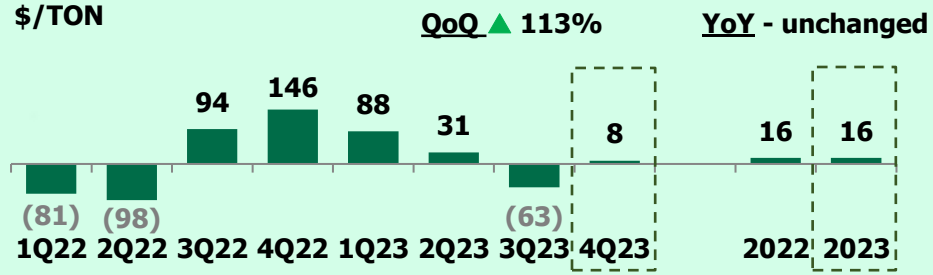
500SN – FO 180 3.5%S Spread



150 BS – FO 180 3.5%S Spread



Asphalt – FO 180 3.5%S Spread



Petroleum Group

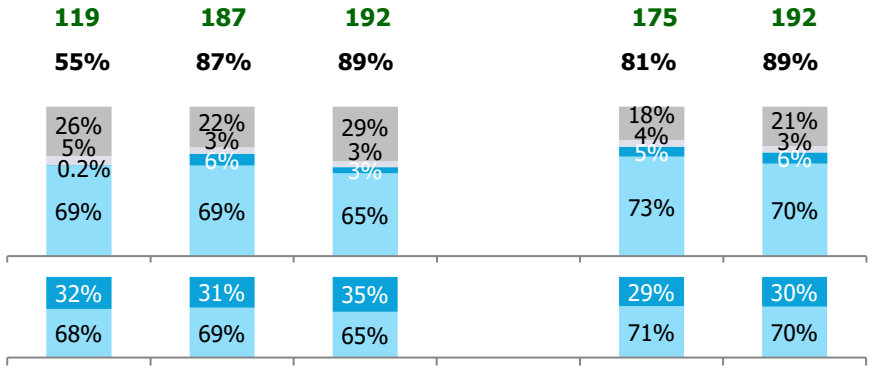
2023: Significantly slumped cost of crude premium upheld the performance

4Q23: Stagnant petroleum market conditions weighted the performance despite strong production

Crude Intake

QoQ ▲ 3%
YoY ▲ 61%

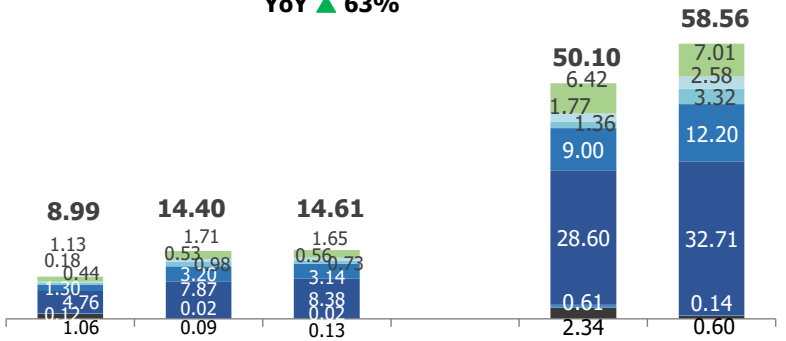
YoY ▲ 10%



Production

QoQ ▲ 1%
YoY ▲ 63%

YoY ▲ 17%



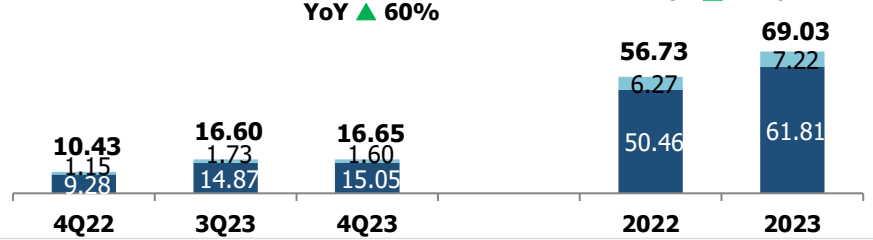
% Utilization	4Q22	3Q23	4Q23	2022	2023
	55%	87%	89%	81%	89%
Lube Base	54%	83%	79%	77%	87%
RDCC	48%	101%	109%	92%	109%

Sales Volume & Revenue

Sales Volume

QoQ ▲ 0.3%
YoY ▲ 60%

YoY ▲ 22%



Revenue

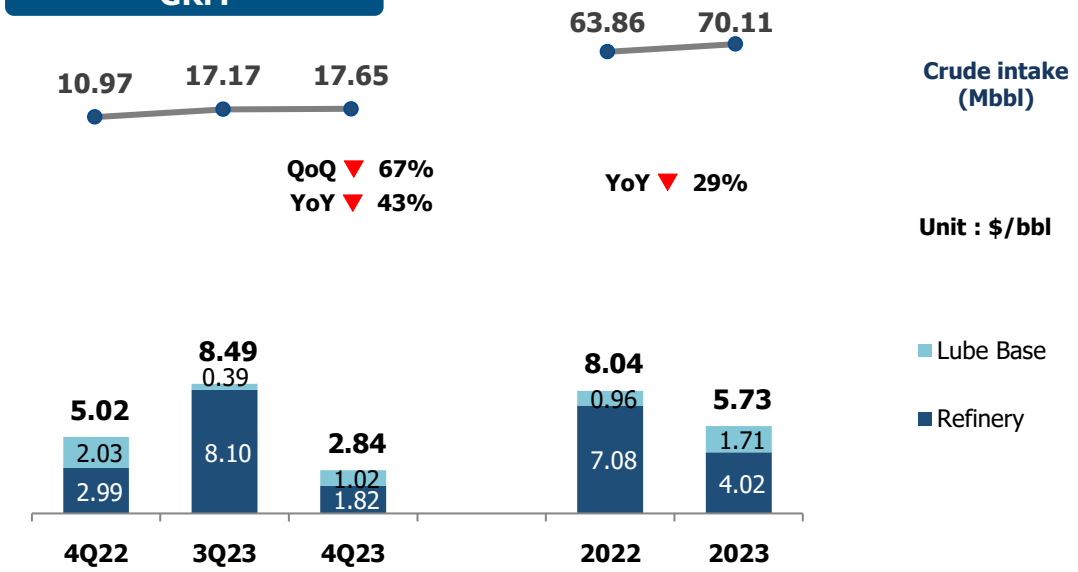
QoQ ▼ 4%
YoY ▲ 47%

YoY ▼ 1%

Unit : MB

	4Q22	3Q23	4Q23	2022	2023
Petroleum	41,352	63,158	60,715	243,953	241,455
Refinery	36,768	57,403	55,126	219,105	216,330
Lube Base	4,584	5,755	5,589	24,848	25,125

GRM



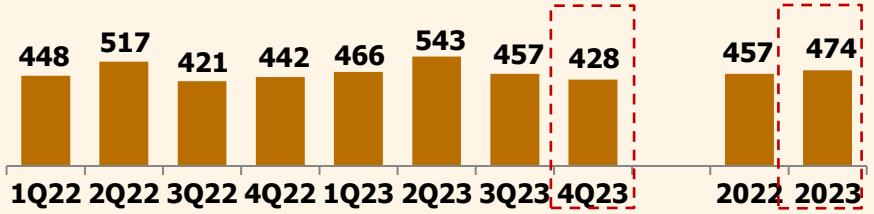
Petrochemical Products Spread

Olefins

HDPE–Naphtha Spread

$/TON

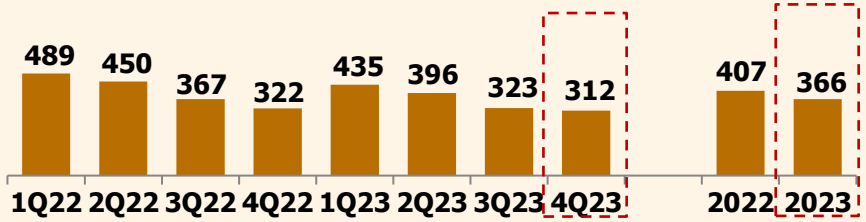
QoQ ▼ 6% YoY ▲ 4%



PP–Naphtha Spread

$/TON

QoQ ▼ 3% YoY ▼ 10%

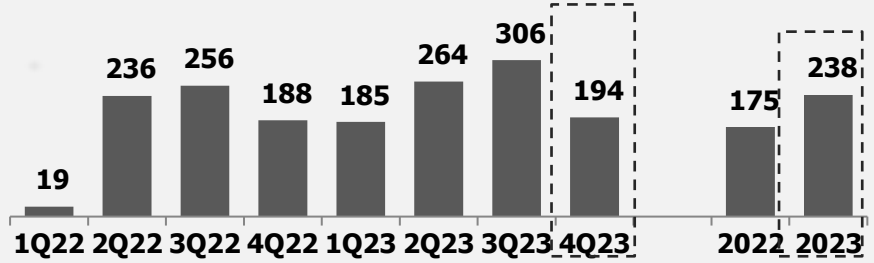


Aromatics

Toluene – Naphtha Spread

$/TON

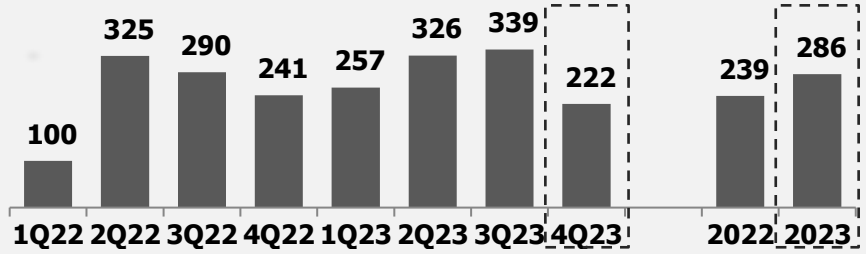
QoQ ▼ 37% YoY ▲ 36%



MX – Naphtha Spread

$/TON

QoQ ▼ 35% YoY ▲ 20%

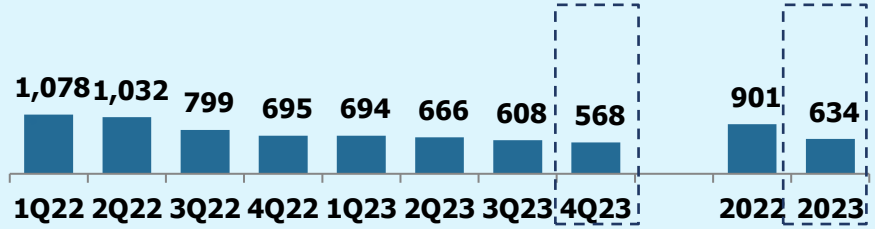


Styrenics

ABS –Naphtha Spread

$/TON

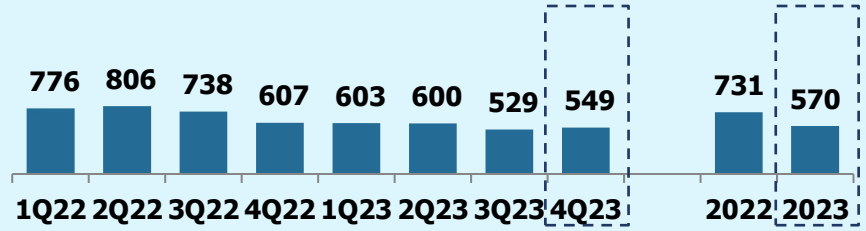
QoQ ▼ 7% YoY ▼ 30%



PS –Naphtha Spread

$/TON

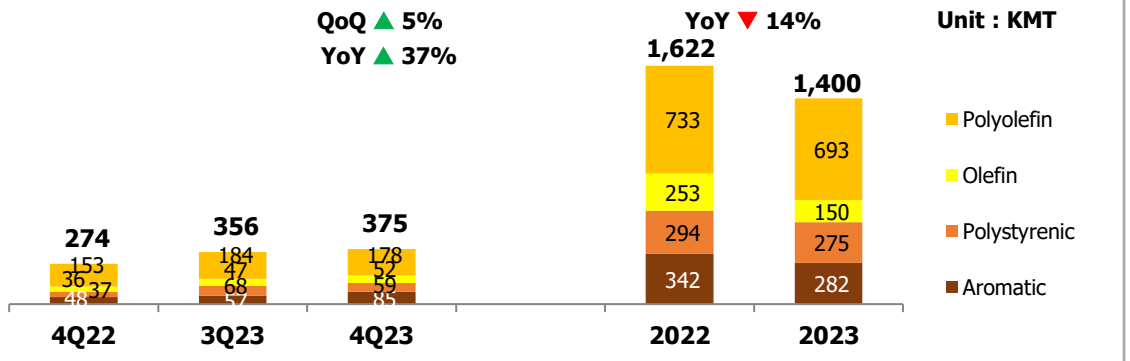
QoQ ▲ 4% YoY ▼ 22%



Petrochemical Group

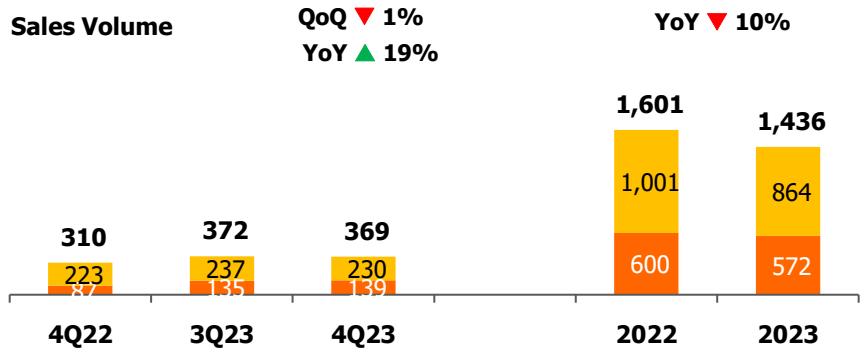
2023 & 4Q23: Moderate performance amongst sluggish petrochemical market conditions

Production



	4Q22	3Q23	4Q23	2022	2023
% Utilization	74%	82%	78%	86%	73%
Polyolefins	67%	81%	78%	80%	76%
Olefins	85%	84%	79%	93%	70%
% Utilization	54%	69%	73%	86%	74%
Polystyrenics	54%	63%	55%	74%	64%
Styrenics	62%	91%	80%	94%	92%
Aromatics	50%	62%	86%	92%	74%

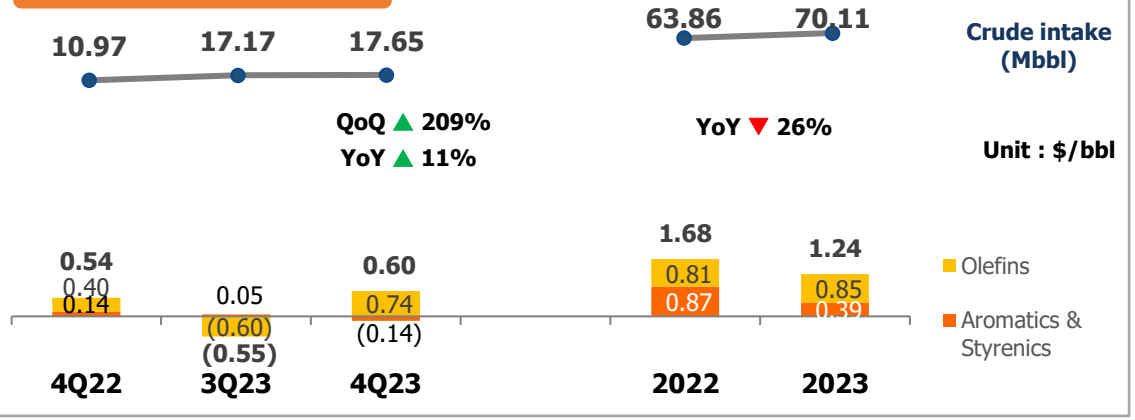
Sales Volume and Revenue



Revenue — QoQ ▲ 3%, YoY ▲ 7% — YoY ▼ 24% — Unit : MB

	4Q22	3Q23	4Q23	2022	2023
Petrochem	12,748	13,253	13,671	70,402	53,376
Olefins	8,635	7,986	8,320	42,448	31,228
Aromatics & Styrenics	4,113	5,267	5,351	27,954	22,148

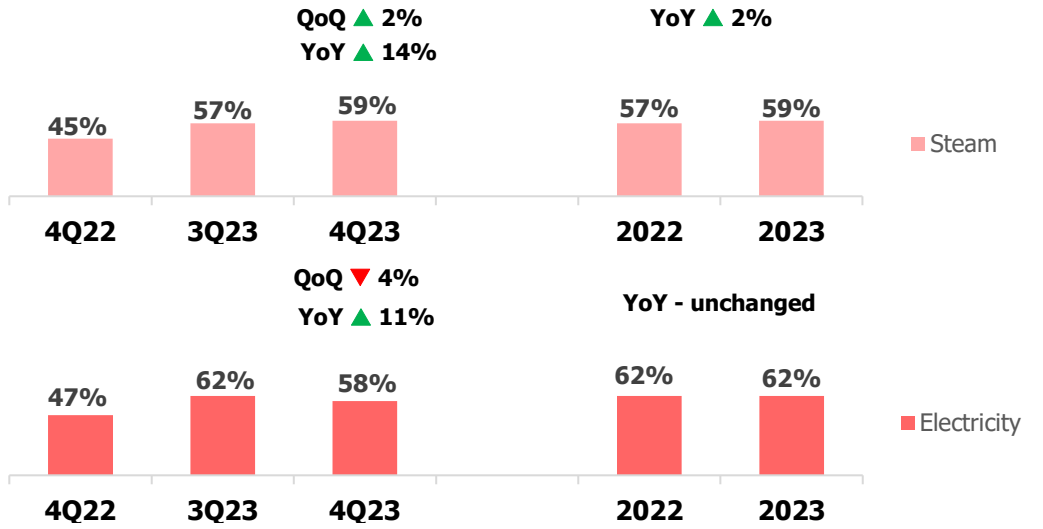
PTF



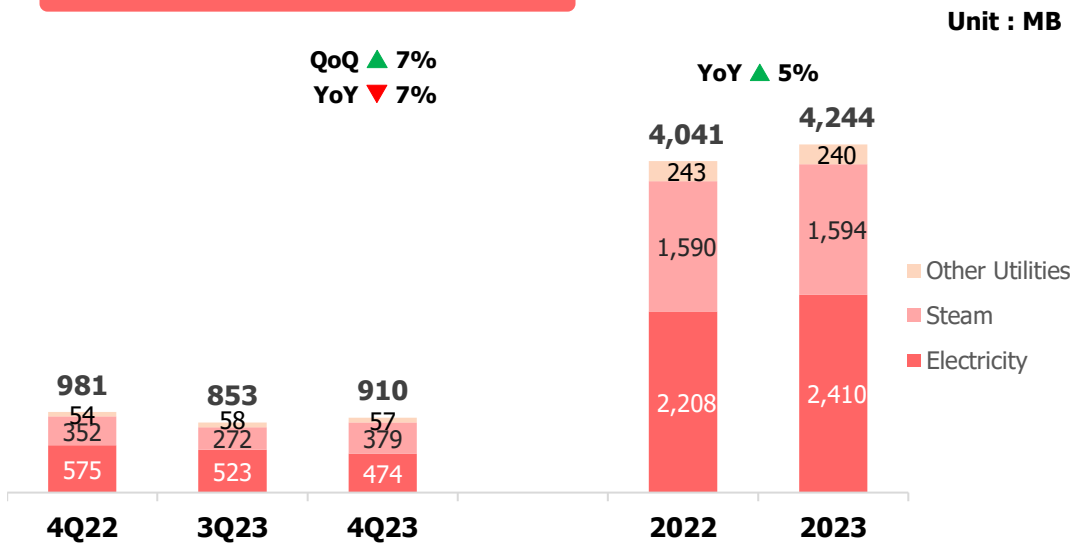
- **2023 : Petrochemical revenue was Bt 53 bn**
  - **YoY :** 24% decrease from 14% price decrease & 10% vol. decrease
- **2023 Market PTF was $1.24/bbl:**
  - **YoY :** $0.44/bbl decrease mainly due to lower Styrenics spreads
- **4Q23 : Petrochemical revenue was Bt 14 bn**
  - **QoQ :** 3% increase from 4% price increase VS 1% vol. decrease
  - **YoY :** 7% increase from 19% vol. increase VS 12% price decrease
- **4Q23 Market PTF was $0.60/bbl**
  - **QoQ :** $1.15/bbl increase due to increased product margin
  - **YoY :** $0.06/bbl increase

Power and Utility

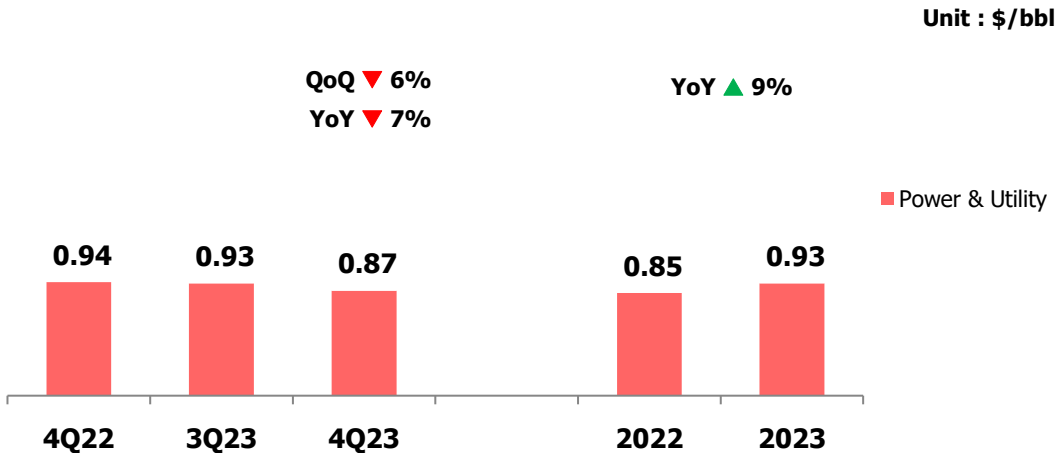
Utilization Rate



Revenue



GIM



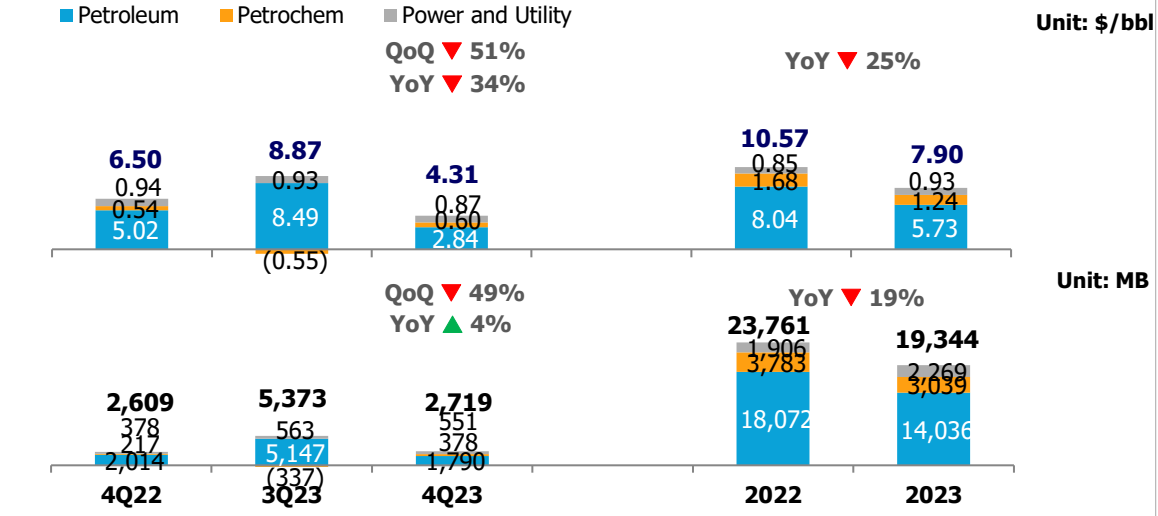
- ❑ **2023 U-Rate of Steam was 59%; ⬆ 2%**
- ❑ **2023 U-Rate of Electricity was 62%; unchanged**
- ❑ **2023 : Power & Utility revenue was 4,244 MB**
  - ▪ **YoY :** 5%% increase from higher average selling prices of electricity
- ❑ **4Q23 U-Rate of Steam was 59%; ⬆ 2% QoQ, ⬆ 14% YoY**
- ❑ **4Q23 U-Rate of Electricity was 58%; ⬇ 4% QoQ, ⬆ 11% YoY**
- ❑ **4Q23 : Power & Utility revenue was 910 MB; ⬆ 7% QoQ, ⬇ 7% YoY**
  - ▪ **QoQ :** higher sales volumes of electricity and steam
  - ▪ **YoY :** from lower average selling prices of electricity and steam

Market & Accounting Gross Integrated Margin

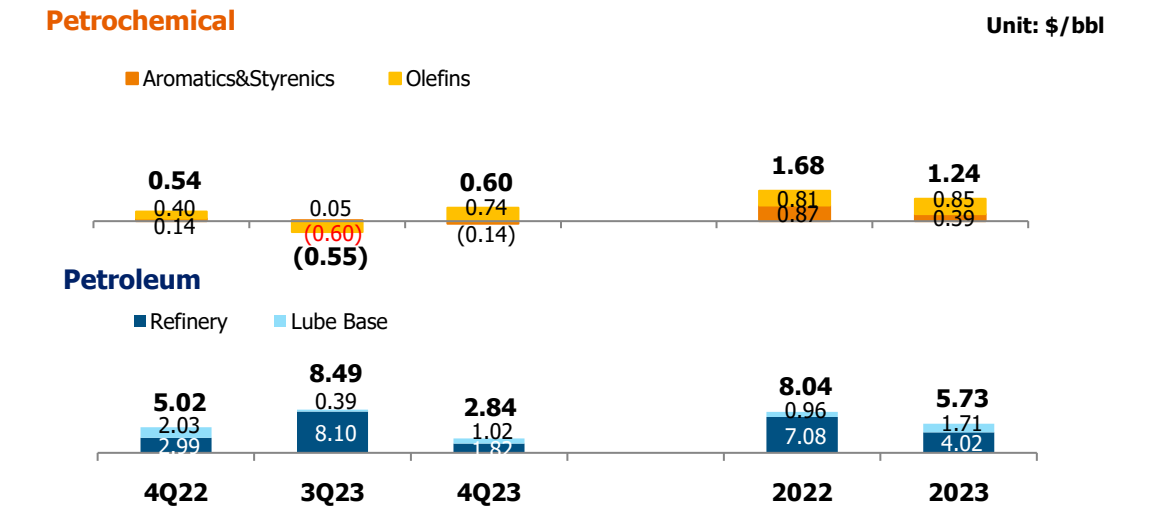
2023: Softened performance due to lower petroleum & petrochemical product spreads along with economic concerns

4Q23: Moderate performance due to stagnant petroleum product spreads

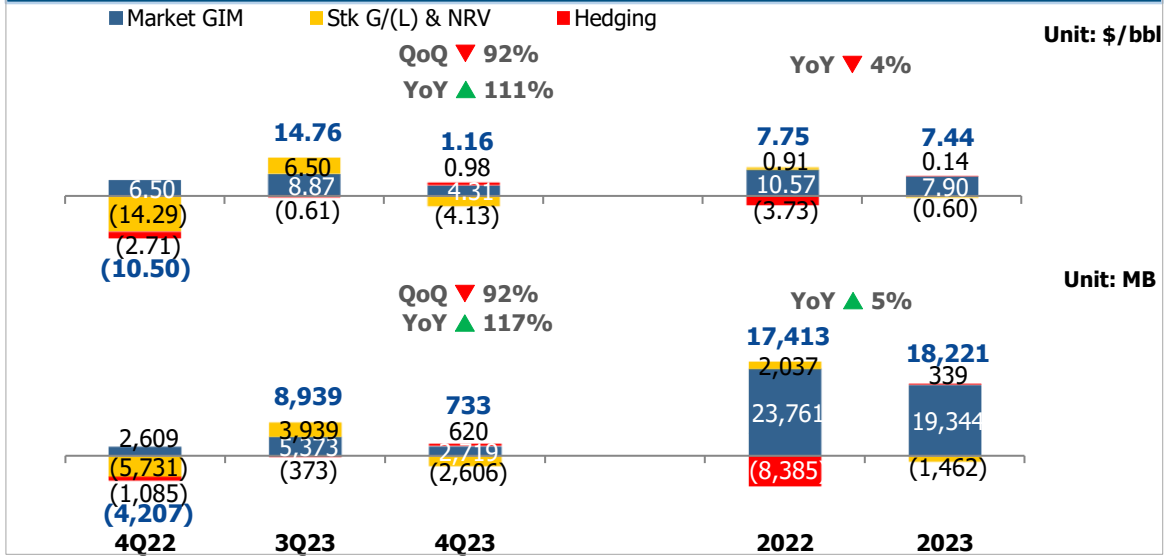
Market GIM



PTF & GRM



Accounting GIM



Market GIM

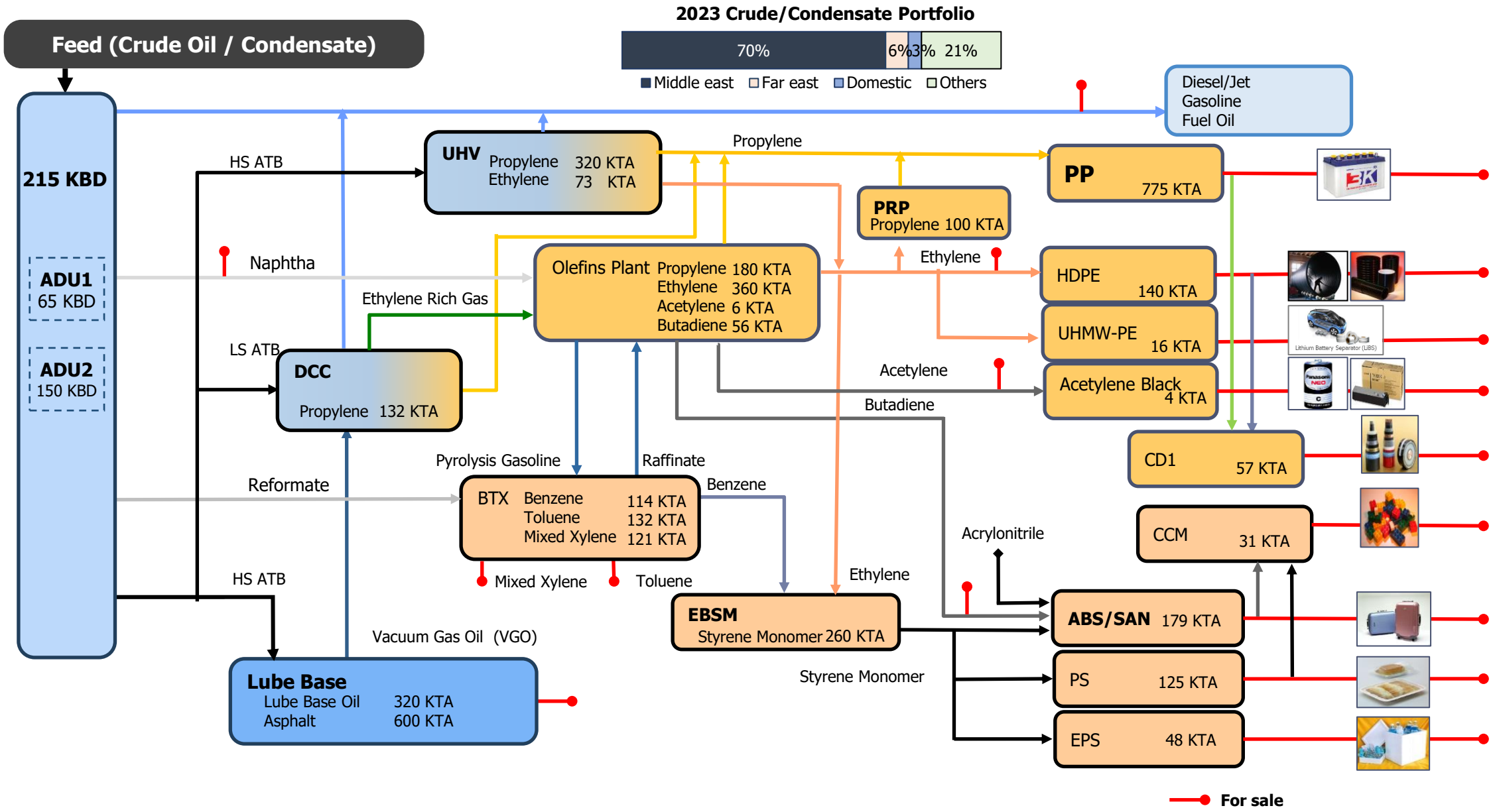
- **2023 Market GIM was $7.90/bbl,**
  - **YoY:** ⬇ $2.67/bbl from the decrease in petroleum & petrochemical product spreads & economic concerns
- **4Q23 Market GIM was $4.31/bbl,**
  - **QoQ:** ⬇ $4.56/bbl due to the decrease in refinery product spreads especially Gas Oil, ULG 95
  - **YoY:** ⬇ $2.19/bbl from lower petroleum product spread

Accounting GIM

- **2023 Acct GIM was $7.44/bbl,**
  - **YoY:** ⬇ $0.31/bbl due to soften Market GIM despite decreased net inventory loss
- **4Q23 Acct GIM was $1.16/bbl,**
  - **QoQ:** ⬇ $13.60/bbl due to $3.15/bbl net inventory loss in 4Q23 VS $5.89/bbl net inventory gain in 3Q23 & $4.56/bbl lower Market GIM
  - **YoY:** ⬆ $11.66/bbl due to $13.85/bbl lower net inventory loss VS $2.19/bbl lower Market GIM

Petroleum and Petrochemical Value Chain

Optimized Configuration & Product Diversification



Key Milestones of the Decade

2006

Exited from TPI's rehabilitation plan and Registered as IRPC Plc.

2009

Business Improvement under Phoenix Project

2011

Commenced operation of Combined Heat and Power Project (CHP I)

2013

- Efficiency improvement#1 under "DELTA" Project
- Capacity Increase: ABS/SAN to 179 KTA

2015

Efficiency improvement#2 : Launched "EVEREST" project

2016

Commenced UHV project in July 2016

UHV: Upstream Project for Hygiene and Value Add Products

2017

- **Commenced PPE project in Sept. 2017**
- **Commenced PPC project in Dec. 2017**

2018

Launched "GDP" project : **G**rowth, **D**igital, **P**eople

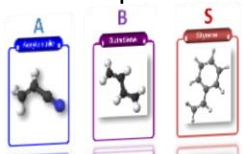
2019

E-Commerce Platform in Thailand

2020

Commenced Floating Solar power plant, the largest one in SEA, in Jun. 2020

2021



Commenced Specialty ABS Powder Project in Apr. 2021
Capacity: 6 KTA

2022

Officially commercialized REINFOXX™ 's "White Bear Fertilizer"
With ZnO NANO technology