PETRONAS CHEMICALS GROUP

Corporate Presentation

INVEST MALAYSIA UK 13 - 16 June 2022

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• ABOUT PCG

PERFORMANCE HIGHLIGHTS

MARKET OUTLOOK

GROWTH AGENDA

SUSTAINABILITY FOCUS

PCG is a leading integrated chemicals player in the region

QUICK FACTS

- 1 Started 1st plant in 1985, in Bintulu, Sarawak
- Manufacturing and sales of a wide range of chemical products with current total production capacity of 12.8 million MTPA
- Three major product segments consist of:
 - Olefins & Derivatives (4.9 million MTPA)
 - o Fertilisers & Methanol (7.8 million MTPA)
 - o Others
- 4 Made up of more than 50 subsidiaries, joint ventures and associated companies
- 5 Top 10 in FBM KLCI, FBM Emas Shariah and a 4th year constituent Bursa Malaysia FTSE4GOOD Index
- 6 Headquartered in the Kuala Lumpur, Malaysia
- **7** PCG is a constituent of key sustainability indices:
 - o DJSI World
 - DJSI Emerging Market

3 MAJOR SEGMENTS

Olefins & Derivatives

Olefins, intermediate, basic and high performance chemicals, and polymer

4.9 million MTPA

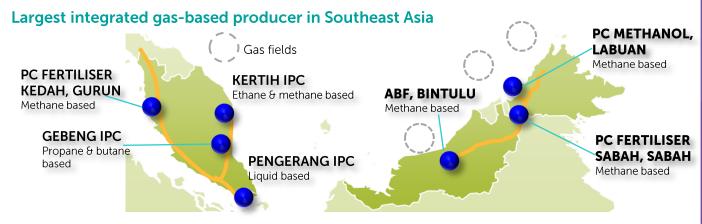
Fertilisers & Methanol

Methanol and a range of nitrogen, phosphate and compound fertilisers

7.8 million MTPA

Others

Operations related to investment holding company and port services and specialty chemicals such as the BRB Group



FULLY INTEGRATED FACILITIES AND INFRASTRUCTURE RESULTING IN LOWER COST, OPTIMUM YIELDS AND GREATER FLEXIBILITY

Long term resilience proven by established business model and management strategy



Secure and competitive feedstock supply



Fully integrated facilities and infrastructure

COMPETITIVE ADVANTAGE



Competitive world scale plants with diversified product portfolio



Proximity to **key growth** markets



Portfolio expansion with leading edge technology



Strong returns and capacity to fund growth

Operational Excellence

- Safe operations at a high level of productivity
- **Disciplined practices in HSE** & manufacturing program
- Efficient feedstock supply management

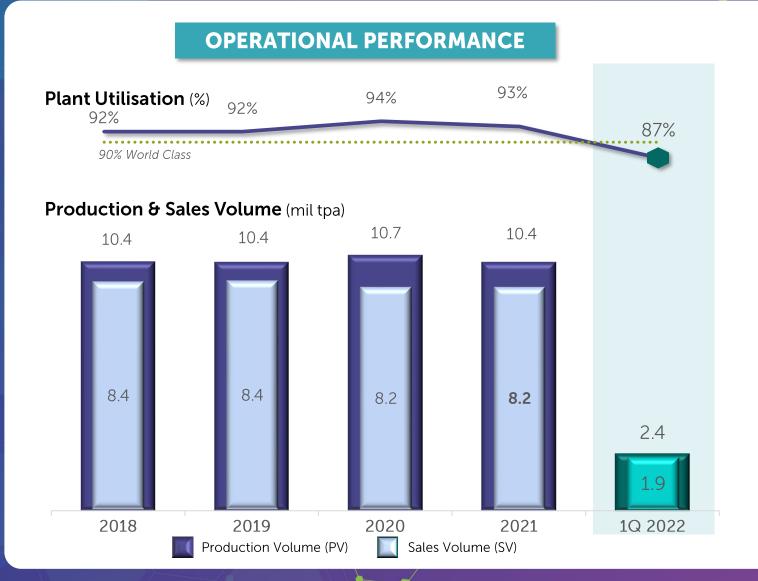
Commercial Excellence

Additional value through competitive marketing, providing innovative products and solutions to create a customer centric business

Growth Delivery Excellence

- Capacity Growth and portfolio expansion into derivatives and specialty chemicals
- Commitment to sustainable investments

Operational Excellence initiatives have resulted in world class manufacturing capabilities amid heavy turn around



Operational Excellence

- Plant utilisation is commendable despite heavy turnaround activities
- Sustainable operations with stable feedstock supply through close relationship with suppliers
- Improved earnings with higher production efficiency

Robust planning and management of business operations result in profitability and stable financial performance despite market volatility and supply chain disruption

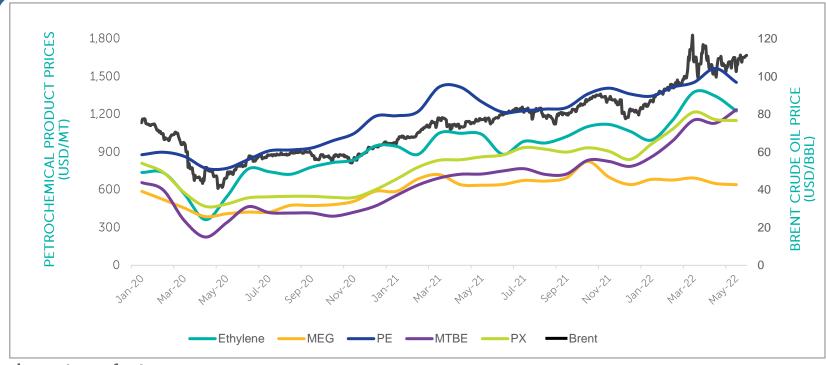


Continued focus on executing growth strategy while maintaining financial fundamentals through:

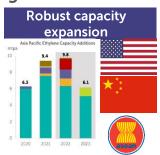
- Business growth
- Prioritised capital investment
- Cost discipline & optimisation
- Risk management & governance practice
- Inventory management
- Foreign exchange management
- Management of working capital & liquidity

61%Dividend Pay-out Ratio for FY2021
(FY2020: 59%)

Olefins & Derivatives Outlook: Stable but feeling the impact of China's lockdown



Long term factors:









Immediate outlook:

Ethylene: Balanced supply with regional cracker TA in Q2, while demand is hampered by China's Zero COVID-19 Policy

MEG: Balanced supply amid weak demand due to China's lockdown

PE: Limited supply due to prolonged logistic issues balanced by bearish demand following Ramadhan month and Eid

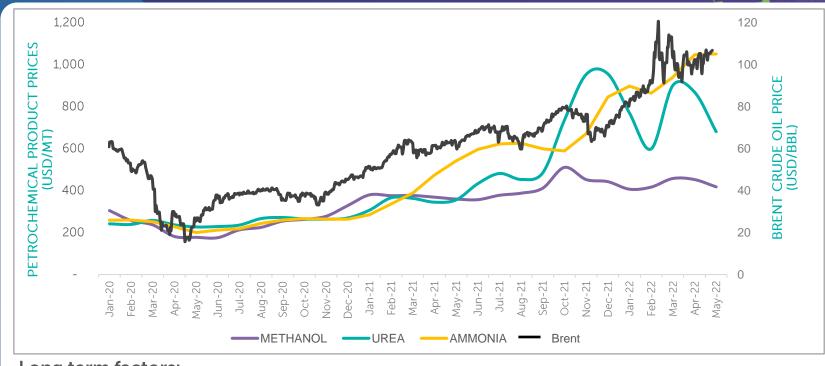
MTBE: Stable, tracking the crude oil and gasoline prices.

Paraxylene: Limited supply due to plant TA amid slow demand following downstream PTA plant TA

Immediate concerns:

- Continued lockdowns in various parts of China
- Geopolitical concerns

Fertilisers & Methanol Outlook: Urea and Methanol seeing correction

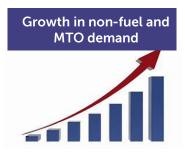


Long term factors:



Volatile energy and







Immediate outlook:

Urea:

- Limited supply globally due to ongoing Russian sanctions
- Muted demand with buyers waiting on the sidelines

Ammonia:

- Scarce spot availability on top of limited Russian supply
- Demand is mainly supported by term commitment

Methanol:

- Tight supply due to planned shutdown in SEA
- · Stable demand

Immediate concerns:

High crude oil prices & geopolitical concerns

Source: IHIS, ICIS, PLATTS, PCG Team Analysis

PCG has a clear strategy to grow our specialty chemicals portfolio and future-proof the business

2-Pronged strategy **Basic** Specialty **Derivatives** Petchem Chemicals Global Regional Local **Maximising** Expanding Stepping-Cash Core Out Generator **Business**

- 1. Sustain strength in basic petrochemicals
- 2. Selectively diversify into derivatives, specialty chemicals and solutions

Diversify into derivatives, specialty chemicals and solutions to future-proof the business

Expanding Core Business

Stepping-Out



Extend Value Chain (EVC)

via downstream investment



Build Specialty
Platform

via Merger & Acquisition (M&A)



Create Optionality for Growth

via Technology
Research and
Corporate Venture
Capital (CVC)

Pengerang Integrated Complex: Refinery re-started, 8th May 2022



Pengerang Petrochemicals Complex Sdn Bhd

Location : Pengerang, Johor

Ownership : 50-50, PCG & Saudi Aramco
Capacity : 3.050 million tonnes combined
Products : LLDPE, HDPE, Polypropylene,

Glycols

PETRONAS Chemicals Isononanol Sdn Bhd

Location : Pengerang, Johor

Ownership : 100% PCG

Capacity: 250,000 tonnes

Product : Isononanol

No.	Product	Volume ('000 MT)	End Market Segment	Target Market
1.	Linear Low Density Polyethylene (LLDPE)		Biohazard containers, Life jackets	Asia Pacific
2.	High Density Polyethylene (HDPE)		PPE, Pipe	Asia Pacific
3.	Polypropylene (PP)	3,050	Electrical appliances, automotive	Asia Pacific
4.	Glycols (MEG, DEG, TEG)		Coolant, textile	Asia Pacific
5.	Isononanol (INA)	250	Lubricants, plasticisers	Asia Pacific

12 EVC projects are in the pipeline, undergoing various stages of execution and feasibility studies for startup within the next 5 years



The next M&A for specialty chemicals platform is crucial for our future positioning

1st Platform : Silicone



New Silicone Blending Facility in Pahang



BRB Lube oil Additives and Chemical facilities

Location : Gebeng, Pahang

Capacity : 8,000 MT per annum

Market Segments : Personal care, F&B

Products : (i) Silicone gum blend; (ii) Silicone

antifoam; and (iii) Silicone emulsion

Target markets : Asia Pacific, Middle East, Africa

Next Platform

End markets

- 1 Feed
- Food & Nutrition
- 3 Agriculture
- 4 Automotive
- 5 Construction
- 6 Electronics
- Energy (excl. Hydrogen)
- 8 Oil and Gas
- Paints & Coatings
- **Water Treatment**
- Healthcare
- Household, Industrial & Institutional (HI&I)
- 13 Personal Care

Specialty chemicals pathways



Food, Feed and Nutrition



Industrial Additives



Surfactants, HI&I and Personal Care

Perstorp fits as a growth platform for PCG to expand its Specialty Chemicals portfolio



MARKET EXPOSURE

Perstorp's portfolio is within PCG's preferred end markets such as Paints & Coatings, Construction, Automotive, Personal Care, Food, Feed & Nutrition.



TALENTED PEOPLE

 Experienced management team and employees of Perstorp pivoting towards high margin downstream specialties



LEADERSHIP POSITION

- Global #1 in Penta & TMP and Top 3 for Neo & Oxo
- Trusted brand with > 100 years history



SUSTAINABILITY-DRIVEN

- o "Pro-environment" product series
- Low VOC/emission alternatives towards "Finite Material Neutral" ambition
- Green methanol (Project Air)



TECHNOLOGY OWNERSHIP

- Proprietary process chemistry for various chemical families
- R&D through active collaboration with universities & institutions



GROWTH OPTIONALITY

- High value creation potential with bolt-on acquisitions
- o Expansion in APAC and SEA

Sustainability at the Core of our business

conomic

Business Sustenance & Green Initiatives



HSE & Operational Excellence



Commercial Excellence



Growth Delivery Excellence









Environmental

Environment Stewardship & Resource Efficiency



GHG Emission Reduction



Energy Optimisation



Waste Minimisation



Water Conservation



New Plastics Economy (NPE)









Social

Social Responsibility



Managing Human Rights Risk



Community Well-Being



NPE Education and Clean Up









Governance





FTSE4Good and Dow Jones Sustainability Index (DJSI) benchmarking

Economic: Business sustenance through growth and responsible product solutions

Economic

Business
Sustenance &
Green Initiatives

OE HSE &
Operational
Excellence

Commercial Excellence

GE Growth
Delivery
Excellence











Bio-PET

Eco-friendly surfactant for oil & gas



EOR in Oil & Gas

Ultra-mild specialty surfactant for personal care



Personal Care



Polyol ester emollient for personal care



Skin Care



Cosmetics

Ultra High Purity Methanol for fuel cells



Fuel Cells

Environmental: PCG aims to reduce greenhouse gas (GHG) emission through Net Zero Carbon Emissions Roadmap by 2050 (NZCE2050)

PCG NET-ZERO CARBON EMISSIONS (NZCE) PATHWAYS

nvironmental

Environment Stewardship & **Resource Efficiency**



GHG Emission Reduction



Energy Optimisation



Waste Minimisation



Water Conservation



New Plastics **Economy (NPE)**











Increase Scope 1 and Scope 2 emissions reduction efforts

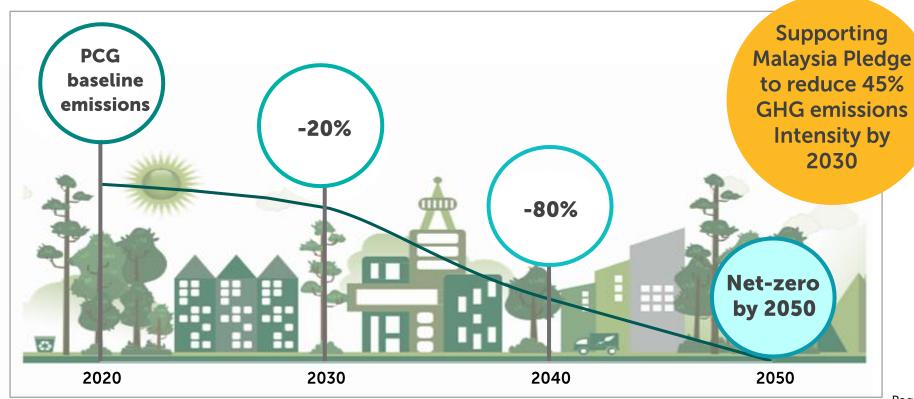


Carbon capture & storage





Optimise the use of forest-based carbon offset



Social: Upholding commitments

Social

Social Responsibility



Managing Human Rights Risk



Community Well-Being



NPE Education and Clean Up









Managing Human Rights Risk



100% contractor assessed on Human Rights Risk

13 vendors established via Vendor Development Program

Community Well-Being



>23,000 mangrove trees planted

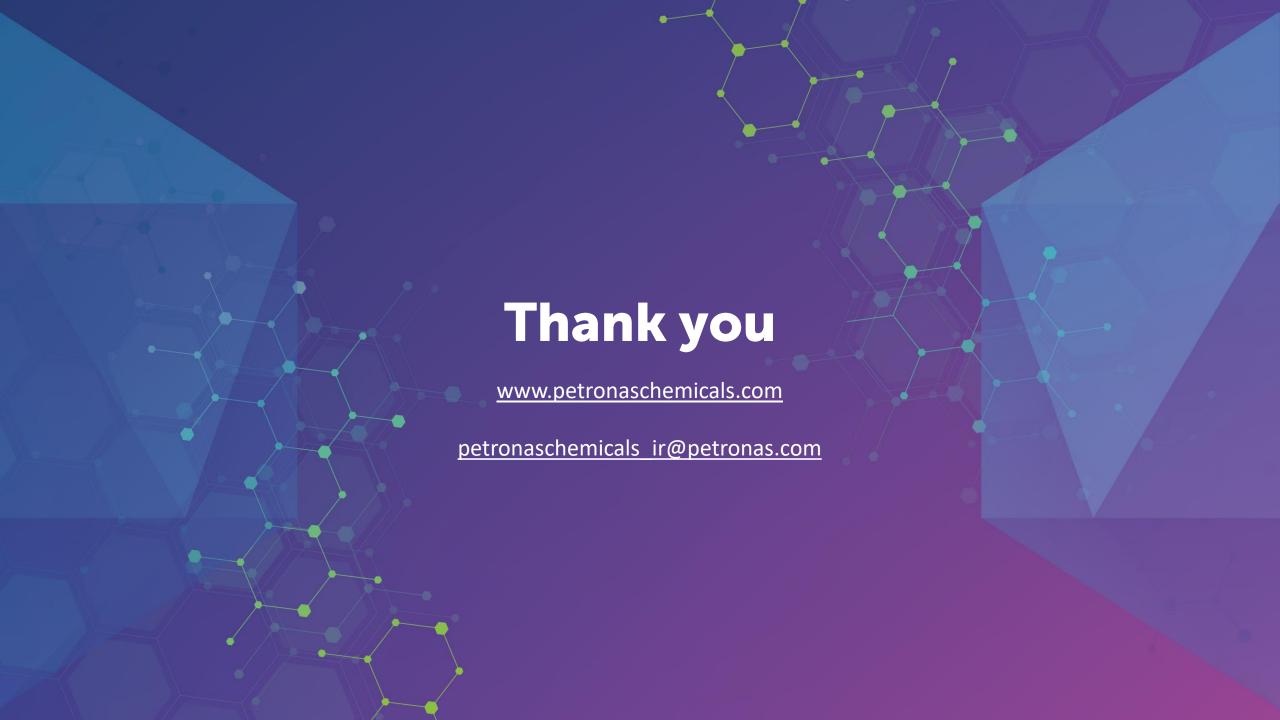
>20,000 people reached

Visitor to ecoCare Education Center

>1,300 student reached on educating safety awareness

NPE Education & Clean Up





Perstorp Holding AB ("Perstorp") is a niche, global specialty chemicals manufacturer with positive exposure to ESG trends



Quick facts

- ❖ A niche specialty chemicals player for Resins & Coatings, Engineered Fluids and Animal Nutrition
- A standalone entity owned by a private equity firm, headquartered in Malmö, Sweden
- FY2021A: Sales of EUR 1.33bn and EBITDA of EUR 248mn (18.6% margin)
- ❖ 7 manufacturing sites and 3 R&D centres globally
- Presence in 26 countries inc. US, Europe & APAC
- ❖ ~1,450 employees
- ~130 product offerings within 30 product groups offerings
- Serves ~2,600 customers globally
- Proprietary oxo and polyol chemistries
- Committed to sustainability and Finite Material Neutral ambition

With sustainability-focused transition at the core, the acquisition will accelerate PCG's sustainability efforts

Adherence to Agreements & Sustainability Trends









Raw **Material**

Waste

Financial Sector

Customer & Market Expectations

Waste

30%

Broad Set of Sustainability Initiatives









NEUTRAL Water

Energy

FINITE MATERIAL

Pro-Environment Products

Portfolio of ISCC PLUS certified products reducing CO₂ emissions

Project Air

Production of sustainable methanol from CO₂, residue streams, biogas

Industrial Roadmap by Site

Specific transformation of raw materials, energy, water & waste

Strong ESG Reduction Targets



Scope 182 Emissions



Scope 3 **Emissions**



Fresh Water Hzds./Non-Consumption Hzds. Waste



Eco Toxic *Impact*

Portfolio of 20+ Pro-**Environment Solutions**



Penta (VoxtarTM)

100% sustainable by 2026 (from 25% in 2021)



TMP (Evyron[™])

75% sustainable by 2026 (from 5% in 2021)



Neo (NeetureTM)

55% sustainable by 2026 (from 2% in 2021)

...and many more¹

1 CuraliteTM Ox Pro, CharmorTM Pro, HoltacTM Pro, PevalenTM Pro. 2-EHATM Pro. EmolteneTM Pro and Valeric Acid Pro

Source: Perstorp and Team Analysis

End