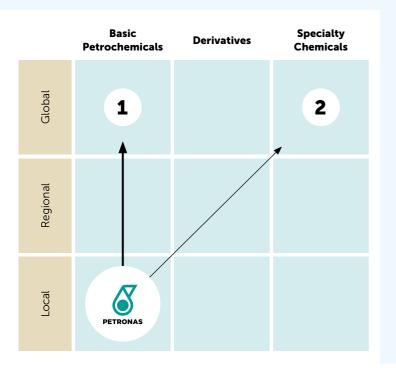
STRATEGY REVIEW

The Two-Pronged Strategy was developed to ensure PCG's competitiveness, resilience and adaptability. This has been particularly crucial over the last couple of years, given the challenges posed by the pandemic alongside an already dynamic and swiftly evolving landscape and industry. Centred on delivering sustainable value to stakeholders, this strategy aligns with our growth aspirations while accounting for external macro-environment, risks, opportunities and material matters.

TWO-PRONGED STRATEGY

Our strategy propels the Group towards achieving our vision of becoming The Preferred Chemical Company Providing Innovative Customer Solutions.





OUR STRATEGIC THRUSTS

To further build resilience against market volatility and emerging risks, this strategy expands our value chain from basic petrochemicals into derivatives and specialty chemicals and solutions. Driving our strategy's success are the three strategic thrusts, implemented through initiatives driven by performance objectives.



OPERATIONAL EXCELLENCE

Achieve sustainable world-class plant performance focusing on:

- HSE Excellence
- Plant reliability & efficiency
- Plant turnaround excellence
- Optimise value chain
- Digital transformation & solutions



Increase value by looking through our customers' lens focusing on:

- Customer focus
- Sustain and enhance market position
- · Marketing and sales capabilities
- Innovative solutions
- Innovation culture



Diversify into higher value-adding products focusing on:

- Extend value chain
- Build specialty platform
- Create optionality for growth
- Sustainability at the core

OPERATIONAL EXCELLENCE

At PCG, Operational Excellence is core to our ability to sustain resilient operations. It prioritises the health and safety of our people, the reliability of our plants and the efficiency of our processes to support PCG's business operations and sustainability journey.

We continued our unwavering focus on further embedding PCG's generative HSE culture into our operations, encouraging employees to take ownership of safety and health issues and be empowered to identify and report potential hazards and risks. We also achieved a key milestone in our sustainability journey with a total reduction of 146,100 tCO₂e emissions in 2023.

This year, we also faced a range of internal and external challenges that impacted our plant reliability and we acknowledge these challenges as we worked diligently to enhance our operational resilience. In mitigating these reliability challenges, we embraced a proactive approach to address potential threats by seizing opportunities during shutdown activities at our plants to eliminate plant issues. We also demonstrated excellence in the successful execution of two planned turnarounds and six scheduled shutdowns in 2023. These endeavours, necessitating substantial time and resource investments, have significantly contributed to better operational performance.



Progress and Outcomes

HEALTH, SAFETY AND ENVIRONMENT EXCELLENCE

- Achieved a lower Lost Time Injury Frequency (LTIF) of 0.09 and recorded zero major fire incidents
- Achieved a reduction of 51,600 tCO₂e from operational optimisation and 94,500 tCO₂e from the purchase of renewable energy via bundled Renewable Energy Certificate (REC)
- Recorded zero incidents of regulatory non-compliance due to strengthened assurance programme

Challenges

 Challenges arise from the increased workload associated with heavy turnaround and maintenance activities, resulting in demand for more manpower compared to normal operational days, which pose a safety risk

Mitigation/Response

- We intensified our campaign on Zero is Possible in all aspects to drive better HSE performance in our daily operation
- For turnarounds, we implemented PCGHSETurnaroundStandardisation and Best Practices Programme, learning from turnaround exercises in 2022. This standardisation has taken place in PC Ammonia and PC MTBE turnaround, as well as scheduled shutdowns at PC Glycols and PC Derivatives which translated into significant improvement in HSE performance

and PC

OPUs

OPERATIONAL EXCELLENCE

Progress and Outcomes Safely and successfully • Managing integrated turnaround and • Strengthen engagement programme executed turnaround activities with Turnaround Main Mechanical maintenance activities at KIPC, which at PC Ammonia and PC MTBE requires close coordination, resource and Maintainance Mechanical Static as well as integrated plant planning and tight contractor (TA4MS) contractor to address shutdown at Kertih Integrated management resource management, as well as Petrochemical Complex (KIPC) improve overall turnaround quality • Undertook proactive measures and executed successful mitigation actions which led to the deferment of planned maintenance activities at three of our facilities Intensified the usage of digital tools in managing turnaround execution encompassing HSE, security as well as integrity/ quality activities • Six Operating Units (OPUs) • Unplanned shutdown and operational • Extra focus plant reliability on achieved Plant Utilisation above challenges, mainly at PC Methanol, interventions at ABF 90% ABF, PC Aromatics and PC MTBE Methanol via respective improvement strategies reliability - PC Fertiliser Sabah namely, ABF Reliability Improvement PC Fertiliser Kedah Strategy & Execution (ARISE) and PC PC Olefins Methanol Reliability Improvement & PC Ethylene Enhancement (PRIME) PC Polyethylene _ Established a platform to support the formation of an expert network PC I DPF and working group across PCG to provide technical experts with a dedicated channel for discussion and immediately identify the best solutions to any issues arising from any facility within the Group Continued collaboration • Feedstock disruption stemming from • Continued to actively participate between PCG and Feedstock maintenance activities at the Sabahin AET and AMT in maximising supplier resulting in: Sarawak Gas Pipeline (SSGP) which feedstock availability through close affected operations at PC Fertiliser collaboration between PCG and Sabah and PC Methanol which - Additional Ethane Taskforce feedstock suppliers (AET): resulted in significant volume loss • Continued to involve all stakeholders in aligning maintenance and shutdown enabled solid ethylene Utilities' supply disruptions at Kertih production levels of above 1 facilities schedule strategies to collectively million MT per annum address reliability concerns Additional Methanol Team • Implementation of internal water (AMT): recycling initiative, known as Project additional 40 mmscfd of gas Process Condensate Recovery supply availability that has

Addressed operational challenges associated with utilities' disruptions at PC Methanol

provided more flexibility for operation and optimisation

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TURNAROUND EXCELLENCE

OPERATIONAL EXCELLENCE

Progress and Outcomes

- Progressive utilisation of Asset Performance Management (APM) applications and value creation realisation across PCG OPUs
- Expanded the scope of the Plant Facing Analytics (PFA) programme that utilises advanced analytics to enhance Overall Equipment Effectiveness (OEE). These initiatives resulted in cost savings of RM7.5 million
- Higher PIVOT Descriptive Analytics (PIVOT DA) utilisation across PCG OPUs, which has improved performance data monitoring by leveraging data driven insights for safer and more reliable plant operations

Challenges

 The different rates of implementation across various facilities due to prioritisation of the implementation plan based on key activities at each facility, such as turnaround, planned and unplanned shutdown

Mitigation/Response

- The realignment of implementation plan and strategic prioritisation
- To optimise the utilisation of digital tools to better manage our plant reliability and unlock more value creation

DIGITALISATION JOURNEY

In our efforts to achieve a plant utilisation rate of above 90%, we are committed to implementing a range of initiatives that will both strengthen our foundations and enhance our operational performance going forward. This includes:

- Continued implementation of the PCG HSE Turnaround Standardisation and Best Practices Programme in 2024 and to expand it to maintenance activities and normal operations as it has proven to be effective in 2023
- Focus on achieving HSE generative culture a culture where employees are encouraged to take ownership of safety and health matters and are empowered to identify and report potential hazards and risks. It is a culture of continuous improvement where everyone is responsible for promoting and maintaining a safe and healthy work environment
- Strengthening plant reliability management and monitoring the closures through vigorous plant turnaround and maintenance activities in 2024 through 2026. Leveraging structured sharing on lessons learnt to the frontliners to ensure we maintain a culture of learning, while empowering the frontliners with the insights needed to excel in their roles and to drive better plant performance
- Execute sustainability projects in line with PCG Sustainability Agenda. This includes plant efficiency improvement and flare reduction programme, through the implementation of the Kertih Site-wide Energy Review (SER) and the utilisation of Advanced Process Control (APC)



COMMERCIAL EXCELLENCE

The entire chemicals industry has endured a challenging 2023 characterised by lower margins, increased competition and softer demand. In addition to navigating this difficult market, PCG experienced some unexpected reliability issues that affected sales volume availability. Despite this, PCG was steadfast in its response and employed its Commercial Excellence strategies to mitigate some of the impact on the business. By putting our customers first, maximising value and focusing on safety, we maintained a high Order Fulfilment Reliability (OFR) rate and favourable customer feedback to deliver value for our stakeholders.



COMMERCIAL EXCELLENCE



The remodelled RTOG consists

of 14 modules, which makes it a

massive undertaking to ensure

compromising on HSE performance

conducted are effective

of DDT to the target group

Maintaining good practice among

transporters and ensuring programmes

Creating awareness on the importance

implementation without

Progress and Outcomes

Challenges

effective

- Remodelling of Road Transport Operational Guidelines (RTOG) to include empowerment so that HSE practices can be sustained and self-regulated by transporters
- Conducted 12 Felt Leadership sessions with transporters, in addition to a Leadership Conversation and Transporter Forum
- Conducted three Defensive Driving Training (DDT) sessions for sales personnel
- Launched new innovative products in 2023 prioritising sustainability and enhanced performance to address growing customer demand. The key product highlights are:
- Our Enhanced Product Development programme produced Ethonas SF401 – a spacer fluid surfactant for oil & gas applications that was commercialised in March 2023. This product meets market needs for an effective, sustainable and cost-effective solution for removing unwanted liquids during drilling
- Perstorp launched new Pro-Environment products which are Neeture™ N100, Evyron™ T100 and 2-EH Pro 100, renewable polyols that reduce carbon footprint
- BRB launched 12 new products in personal care, construction and high-performance lubricant additives

- Customer requires longer trial period for product evaluation prior to acceptance. Current market situation is soft due to low demand post COVID-19 crisis
- Shifting customer preference towards sustainable products takes time. In certain regions like Asia, the demand is still limited due to the preference for lower cost products
- Lack of awareness about how to apply the new products
- Customers require samples and more test results before they can be convinced to switch
- Continued reaching out to potential customers in targeted markets and developing co-created application solutions to address customer's pain points

· Rolled out the remodelled RTOG on a

pilot basis to two transporters to ensure

any gaps/improvements required will be

immediately addressed without adversely

Ensured meaningful engagement with

transporters with the presence of top

management during Felt Leadership

Secured leadership commitment for staff

affecting the day-to-day operations

sessions

enrolment in DDT

- Continued promotion of Pro-Environment solutions to help customers meet their sustainability targets
- Maintained close relationship with customers to educate and create awareness about new products
- Provided technical support to help with formulations



SUSTAIN LAND TRANSPORT SAFETY

COMMERCIAL EXCELLENCE

Progress and Outcomes

- Rolled out our new digital PETRONAS360 initiative. (P360), to pilot customers in November 2023. P360 enables customers to access their own self-service portal to view their transaction details with PCG, account statement and check on real-time delivery status through integration with CDex. In addition, it offers access to online spot volume offers, viewing and enquiring about PETRONAS products, other downloading product regulatory sheets, and sending enquiries and feedback to PCG
- In March 2023, e-chemical management system (e-chems) was rolled out, incorporating Raw Material Information Request (RAWMIR) to capture additional information through suppliers. Through this process, whenever a buyer initiates the procurement of a chemical, the platform will automatically check and send a request to material suppliers to fulfil the required RAWMIR disclosures

Challenges

- To ensure seamless integration between our various systems as well as successful data migration and accuracy
- Adoption of new features rollout which has changed how employees conduct sales
- This new process overcomes the previous manual process where we had to identify new raw materials and supplier information before dispatching the RAWMIR document through email

Mitigation/Response

 Project teams from all stakeholders involved worked together to ensure a smooth integration. Extensive testing that included System Integration Testing (SIT) followed by Business Validation Testing (BVT) was conducted to ensure system readiness before going live

- Implemented Change Management activities that included group training, one-on-one training, system support clinics, gamification and rewards
- Currently testing at the production stage to ensure smooth integration

PCG will continue to strategically advance its operations and expand its market presence through the development of new and relevant products and services, ensuring alignment with evolving sustainability standards and customer-centric innovation:

- Commercialise products from Pengerang Integrated Complex (PIC) and increase technical support to enable customers to tune the PIC product specifications to their requirements, for example, polymer products (Polyethylene Pipe and Bi-axially Oriented Polypropylene [BOPP])
- Continue to work closely with customers through the Enhanced Product Development (EPD) programme to create innovative and relevant
 products such as NPK fertilisers with organic content from chicken manure to enhance circularity in the agriculture industry
- Continue to strengthen our product distribution with the implementation of the new tank warehouse in Malaysia (Johor) and China (Fujian and Taizhou)
- Commence sales and marketing of methanol volume from Sarawak Petchem, which will have a plant capacity of 1.7 KTPA and 100% offtake by PCG
- Route-to-market strategy implementation for upcoming new products Melamine and Maleic Anhydride (MAn) into target countries for commercial readiness, which are targeted to be available from our facilities in 2025
- With rising sustainability requirements across markets, we will also support customers' business growth through low-carbon, sustainable solutions, which aligns with PCG's Sustainability Agenda. Key initiatives include shifting from single-use plastics to more sustainable applications like High Density Polyethylene (HDPE) blow moulding grades, offering customers sustainable surfactants such as natural-based Fatty Alcohol Ethoxylates (FAE) products with Renewable Carbon Index (RCI), and providing essential CO₂ data for their renewable calculations
- Commercialise the production and sales for Pentaerythritol (Penta) and ISCC PLUS certified Voxtar[™] M40 from the Sayakha facility in India, aimed at strengthening our presence in the APAC region while introducing sustainable product alternatives, including our Pro-Environment solutions, to our Asian customers
- Specialty Chemicals continues to focused on strengthening its existing strongholds in Europe and America while expanding its reach in the growing APAC market
- Specialty Chemicals will reinforce its presence in Europe and America and expand into the APAC market, while prioritising sustainability and customer-centric innovation to drive its transformative strategy and establish itself as a global leader in the specialty chemicals market

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GROWTH DELIVERY EXCELLENCE

Our growth performance has remained stable over the years, supported by our strong financial position. This has enabled us to explore opportunities to venture into new areas and achieve long-term growth affording us opportunities to venture into new areas and achieve long-term growth. Through Growth Delivery Excellence, we further diversify our product portfolio into higher value-adding sustainable products, such as derivatives, specialty chemicals and solutions. As a result, we are able to meet the changing demands of our customers and future-proof our business. For example, through extension of our value chain, we built a specialty ethoxylates and polyether polyols plant in Kertih, Terengganu and melamine plant in Gurun, Kedah. Through BRB and Perstorp, we anchored our specialty platform with the objective to grow further in the specialty chemicals space. Our focus on striving towards Sustainability at the Core also prompted us to create value by embracing the circular economy to enable a low-waste future, stewardship of natural resources and minimising our carbon footprint.

Progress and Outcomes

EXTEND VALUE CHAIN

BUILD SPECIALTY PLATFORM

CREATE OPTIONALITY FOR GROWTH

SUSTAINABILITY AT THE CORE

 Achieved ready for start-up (RFSU) phase and obtained on-spec products for the following projects: Specialty ethoxylates and polyether polyols plant in Kertih, Terengganu, and Nitrile butadiene latex plant in Pengerang, Johor Ongoing projects under execution: Melamine plant in Gurun, Kedah, and Expansion of 2-EHA plant in Gebeng, Pahang Both are currently in the construction stage and progressing as planned. We are well on track for the plants to be in RFSU phase in the second half of 2024. Achieved Final Investment Decision (FID) to fully acquire the Maleic Anhydride (MAn) plant in Gebeng, Pahang, from BASF PETRONAS Chemicals Sdn. Bhd. (BPC), and to upgrade and rejuvenate the facilities to produce refined MAn	Nitrile butadiene latex plant in Pengerang Integrated Complex, Johor.
and ISCC PLUS certified Voxtar [™] M40 plant in Sayakha, India, a	orp. Perstorp has also completed its new Pentaerythritol (Penta) and is making good headway with Project Air in Sweden /ith capacity expansion and the establishment of new marketing obal leader in specialties in selected markets
 Continue with customer validation and product quality improv Achieved the first drop from bio-based emollient pilot plant Developing a global research and development network incluincrease the level of innovation sophistication in key markets a Continue to assess and evaluate potential disruptive technology 	Iding a new Technology and Innovation Centre in Malaysia to Ind enabling localised solutions
 Reached the FID to construct advanced chemical recycling pla Active assessments of recycling projects to enhance plastic was to diversify feedstock for a sustainable portfolio Within Perstorp, we have a portfolio of Pro-Environment produto the customers 	te management ecosystem in Malaysia and various opportunities

GROWTH DELIVERY EXCELLENCE

STRATEGIC INVESTMENT • Continuously scan potential and emerging technologies to enhance value of existing Investments that are not aligned with molecules or new types of feedstock PCG's strategic direction and may Prioritised the investment portfolio to deliver the targeted value effectively impact PCG's growth trajectory Ventured into specialty chemicals where the margin is higher and less cyclical than commodities **PROJECT FEASIBILITY** • Ensured robust project economics through rigorous and thorough project Hyperinflation, rising costs, volatility of evaluation and forecast • Capitalised on our business intelligence and benchmark against the market and product prices and increased pressure on climate action can impede a other key industry players project's feasibility Attracted suitable business partners and technology providers that offer the best competitive advantages Embedded sustainability as a prerequisite for projects from feasibility to commercialisation stage **PROJECT EXECUTION** • Driven project execution, business and operation readiness for sanctioned Project delivery issues that impact the projects effectively Ensured a comprehensive scope of the Engineering, Procurement, Construction commercialisation or stabilisation of new plants may impact our ability to and Commissioning (EPCC) contract capture optimal value Developed a clear route to market strategy and secured customers before project commercialisation **SUSTAINABILITY** • Pursued sustainability-related projects based on circular economy principles Global awareness on climate change Conducted feasibility assessments with consideration of sustainability and circular economy increasingly dimensions for all growth projects shape customer demands for Incorporated carbon abatement plan as part of project FID decision package sustainable products and solutions, Collaborated with innovative technology solution providers to build a sustainable which may affect our business portfolio performance, reputation and longterm growth INNOVATION • Leveraging experience from past projects, expertise from BRB and Perstorp, new Stepping out towards new technology opportunities are assessed through PCG with specific criteria defined to improve may require a lengthy innovation probability of success period for business validation with a Applied a standardised approach to validate and identify the right opportunity high uncertainty of success space for disruptive products and services where we focus on customers first rather than focusing on solution in the initial stage **MERGERS & ACQUISITIONS (M&A)** Conduct a comprehensive due diligence process to assess the target company's M&A require huge capital expenditure financial health, operational efficiency and potential synergies with PCG where failure to deliver acquisition • Analyse the target market, competitor landscape and potential regulatory hurdles promises may have financial and to assess the viability of the acquisition's post-merger success reputational impact Develop contingency plans for potential challenges like integration difficulties, market fluctuations or regulatory hurdles

GROWTH DELIVERY EXCELLENCE

Building on our growth momentum, the potential remains exciting and we will continue our intensified efforts to create value from more opportunities in our pipeline of projects while unlocking the potential from the circular economy.

Extend Value Chain

- Start commercial operations for three of our plants in 2024. The first being the specialty ethoxylates and polyether polyols plant in Kertih, Terengganu, and the second being the nitrile butadiene latex (NBL) plant in Pengerang, Johor, and the third being the melamine plant in Gurun, Kedah
- RFSU of the 2-ethylhexanoic acid (2-EHA) plant in Gebeng, Pahang, through our JV company, BASF PETRONAS Chemicals Sdn. Bhd. (BPC)
- Proceed with the construction phase of the newly sanctioned Maleic Anhydride (MAn) and the advanced chemical recycling project
- Continue to mature several opportunities in our project pipeline which are at various stages of feasibility study

Build Specialties Platform

- Commercial operation for the Sayakha plant in 1Q 2024
- Continue Project Air feasibility study on sustainable methanol
- Pursue opportunities to leverage synergy between PCG and Perstorp and replicate technologies in Malaysia to serve the APAC market
- Pursue a transformational growth strategy to become a global leader in specialties

Create Optionality for Growth

- Realise PCG Global R&D Network aspiration, which will consist of a Technology & Innovation Centre (TIC) and multiple innovation hubs in major time zones and markets. This will enable PCG to increase the level of innovation sophistication in key focus markets, especially in the European and Asian regions. The construction of the TIC is to commence in 2024 and will be up and running by 2025
- Establish emollient esterification capability via a pilot plant-simulator reactor. With this, we can start developing new formulations and expand PCG's offering in the bio-based personal care portfolio

Sustainability at the Core

- Continue to progress with the construction of our newly sanctioned advanced chemical recycling plant
- Continue to assess waste-to-products technologies, converting plastic waste into recycled polymers under our New Plastics Economy (NPE) execution strategy
- Pursue sustainability-related growth projects as part of PCG Circular Economy initiatives, explore other technologies and implement carbon reduction efforts to achieve Net Zero Carbon Emissions by 2050
- Continue to expand Perstorp's Pro-Environment Solutions, derived from renewable or recycled raw materials, and offer the same quality in performance as its fossil fuel counterpart, to fulfil customer needs while embracing sustainability throughout the supply chain

