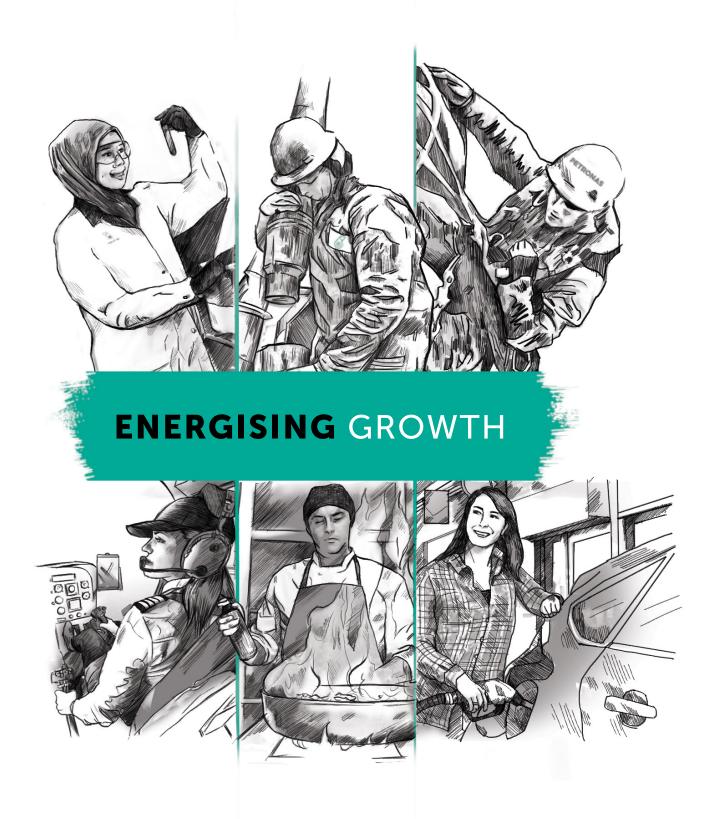
www.petronas.com



Petroliam Nasional Berhad (PETRONAS) (20076-K)

Tower 1, PETRONAS Twin Towers, Kuala Lumpur City Centre 50088 Kuala Lumpur, Malaysia





Cover Rationale

Energy that is accessible and affordable is the foundation of inclusive sustainable energy to all corners of the Earth, we are reminded of the daily lives that we touch and empower from the work that we do.

Moving forward, we will continue using the transformative power of

Introduction

according to our sustainability priorities, providing an outline of the business context and our strategic responses, followed by an overview of our actions and performance. The is integrated across the energy value chain where we have deep knowledge downstream segments.

reporting suite alongside the Annual Report, we disclose PETRONAS' sustainability impact as a responsible, safe and efficient business. The wider how PETRONAS is balancing business needs with sustainability requirements is explained throughout the report.

that give an at-a-glance view of our performance over the past years. initiatives and activities through various channels, including publiclywebsite, newsletters and stakeholder

For more information, refer to About This Report on page 94.

Stakeholder Inclusiveness

The progress of our business depends It is a business prerequisite to understand and be responsive to is how we can create and enhance value in a meaningful way.

Our goal is to nurture relationships that are built on respect and trust. Understanding the needs and us make more informed decisions range of views. We engage with a wide range of stakeholders – refer to page 95 for a list of our key identified

Sustainability **Reporting Frameworks**

Our disclosure is guided by the International Petroleum Industry Association's Oil and Gas Industry Reporting (2015). IPIECA is the global oil and gas association for Integrated Reporting Framework <IR> and non-financial capitals.

six topics. Please refer to page 20 for



Materiality Topics

Sustainability Report is based on our

SUSTAINABLE VALUE CREATION

PETRONAS at a Glance

PETRONAS Around the World

Message from the President

and Group Chief Executive

Letter from the Chairman,

Corporate Sustainability

Five-Year Key Financial Indicators

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- 19 Focus Areas

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The Future of Gas

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SAFETY

- 37 Personal Safety **Process Safety**
- 40 Emergency Preparedness and
- Crisis Management
- Security

CLIMATE CHANGE & ENVIRONMENTAL MANAGEMENT

- Climate Change
- 55 Environmental Management
- 58 Biodiversity and Ecosystem Services

PRODUCT STEWARDSHIP & SUPPLY CHAIN

- Product Stewardship
- Supply Chain



HEALTH, WELLNESS & WORKPLACE

- Health and Wellness 77
- Human Capital

SOCIAL RESPONSIBILITY

- Human Rights
- Corporate Social Responsibility

ADDITIONAL INFORMATION

- Five-Year Sustainability Data/
- Performance Data **About This Report**

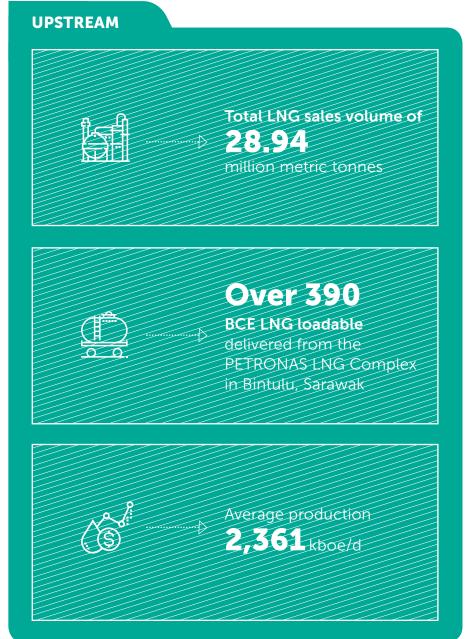
PETRONAS At a Glance

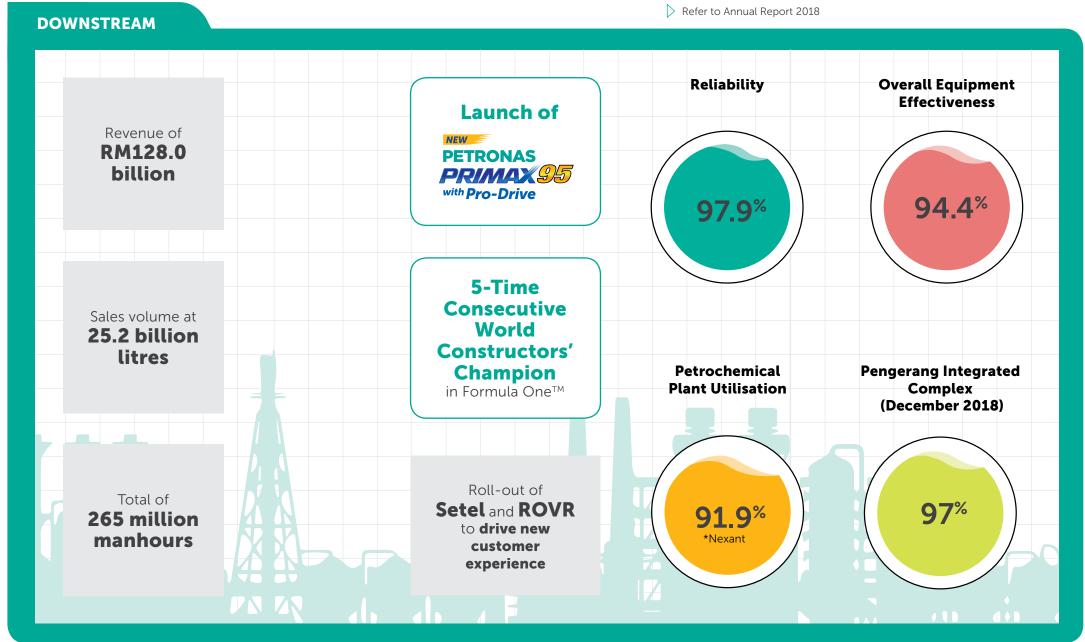
We deliver energy efficiently and reliably, having built capabilities across every stage of the oil and gas value chain.

We maximise the value of every molecule through our fully integrated business model. We continue to strengthen our portfolio of conventional and unconventional resources, broaden our offering of diverse petrochemical products and maintain our track record of successful project delivery.

As we progress towards a low-carbon energy future, we continue to leverage technology, technical capabilities and our diverse, resilient and competent workforce to sustainably deliver energy to the world.







Please refer to the PETRONAS Group Annual Report 2018 for more information, accessible at www.petronas.com

PETRONAS AROUND THE WORLD

MIDDLE EAST

- Iraq Development, Production
- Oman Development, Production

- Egypt Lubricants Iran Lubricants
- Iraq Lubricants Jordan Lubricants
- Saudi Arabia Lubricants United Arab Emirates - Lubricants

Project Delivery & Technology

• Iraq • United Arab Emirates

CENTRAL ASIA

ASIA PACIFIC

• Azerbaijan – Development, Production

• Vietnam – Petrochemicals, Lubricants

Project Delivery & Technology

• Turkmenistan – Development, Production

• Australia – Development, Production, LNG • Brunei – Exploration, Development

• China – LNG Marketing • India – LNG Marketing • Indonesia – Exploration, Development, Production • Japan - LNG Marketing • Malaysia - Exploration, Development, Production, LNG • Malaysia-Thailand Joint Development Area – Exploration, Development, Production • Myanmar – Exploration, Development, Production

• Australia – Petrochemicals, Lubricants • Bangladesh – Lubricants • Cambodia – Lubricants

• Japan – Petrochemicals, Lubricants • Malaysia – Petrochemicals, Retail, Refinery, Lubricants

• Sri Lanka – Lubricants • Taiwan – Petrochemicals • Thailand – Petrochemicals, Lubricants

• South Korea – LNG Marketing • Taiwan – LNG Marketing • Thailand – LNG Marketing • Vietnam – Production

• China – Petrochemicals, Lubricants • India – Petrochemicals, Lubricants • Indonesia – Petrochemicals, Lubricants

• Myanmar – Lubricants • Nepal – Lubricants • New Zealand – Petrochemicals, Lubricants • Pakistan – Lubricants

• Philippines - Petrochemicals • Singapore - Petrochemicals, Lubricants • South Korea - Petrochemicals

• Brunei • China • India • Indonesia • Japan • Malaysia • Myanmar • Philippines • South Korea • Vietnam

• Turkey – Lubricants

Downstream

Project Delivery & Technology

• Azerbaijan • Turkmenistan

• Canada - (Unconventional) Exploration, Development, Production, LNG • Mexico

Downstream

- Canada Lubricants Costa Rica

- Lubricants Mexico Lubricants United States of America - Petrochemicals,

- Lubricants • Dominican Republic -

NORTH AMERICA

Lubricants

- Exploration

Lubricants • El Salvador – Lubricants

• Guatemala - Lubricants • Honduras -

LATIN AMERICA

• Suriname – Exploration • Argentina – (Unconventional) Development, Production

Downstream

- Argentina Lubricants Bolivia Lubricants
- Brazil Lubricants Chile Lubricants Colombia -Lubricants • Ecuador – Lubricants • Guyana – Lubricants
- Paraguay Lubricants Peru Lubricants Suriname -Lubricants • **Uruguay** – Lubricants

EUROPE

• Ireland - Production • United Kingdom – LNG & Gas Trading, Gas

Storage

Downstream

- Austria Lubricants Belgium Lubricants • Bulgaria – Lubricants
- Czech Republic Lubricants
- Denmark Lubricants Finland -Lubricants • France – Lubricants
- Germany Lubricants Greece -Lubricants • **Hungary** – Lubricants
- Italy Lubricants Moldova

- Lubricants Netherlands -
 - Lubricants Norway Lubricants
 - Poland Lubricants Portugal -Lubricants • Romania – Lubricants
 - Russia Lubricants Slovakia -
 - Lubricants Slovenia Lubricants
 - Sweden Lubricants Switzerland - Lubricants • United Kingdom -

Project Delivery & Technology

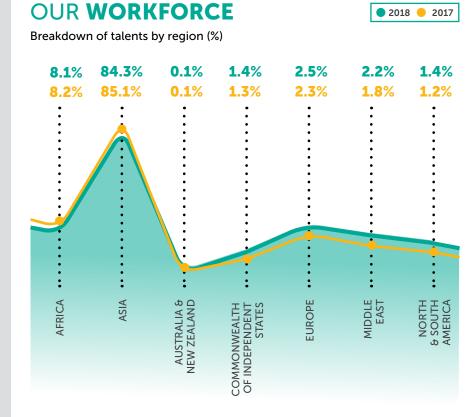
• Italy • Spain • United Kingdom

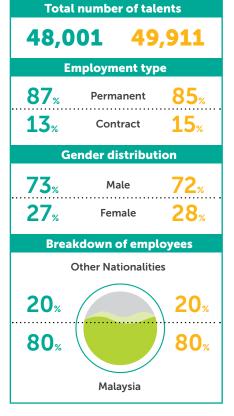
AFRICA

- Angola Exploration Chad Production Egypt Development, Production, LNG • Gabon – Exploration • Gambia – Exploration
- Republic of South Sudan Development, Production
- Republic of Sudan Development, Production Senegal Exploration

- Algeria Lubricants Angola Lubricants Botswana Retail, Lubricants • Burundi – Lubricants • Cameroon – Lubricants • Chad •
- **Democratic Republic of the Congo Retail, Lubricants Ethiopia Lubricants • **Gabon - Retail, Lubricants • Ghana - Retail, Lubricants
- **Kenya Retail, Lubricants Lesotho Retail, Lubricants

- **Malawi Retail, Lubricants Mali Lubricants Mauritania Lubricants
- Mauritius Retail, Lubricants Morocco Lubricants **Mozambique Retail, Lubricants • Namibia – Retail, Lubricants • Republic of South Sudan
- Republic of Sudan **Reunion Retail, Lubricants **Rwanda Retail,
- Lubricants South Africa Refinery, Retail, Lubricants Swaziland Retail,
- Lubricants **Tanzania Retail, Lubricants Togo Lubricants Tunisia –
- Lubricants **Zambia Retail, Lubricants **Zimbabwe Retail, Lubricants ** Engen Holdings (Pty) Limited entered into a transaction with Vivo Energy plc, which saw
- Engen's operations now transferred to Vivo Energy
- **Project Delivery & Technology** • Egypt • Mauritania • Republic of Sudan • Republic of South Sudan





WE ARE PETRONAS

Our Profile

VISION

A LEADING OIL AND GAS **MULTINATIONAL OF CHOICE**

MISSION

We are a business entity

Oil and gas is our core business We add value to this resource We contribute to the well-being of society

Petroliam Nasional Berhad (PETRONAS) is Malaysia's national oil and gas company, ranked amongst the largest corporations on Fortune Global 500[®].

Since 1974, we have built our capabilities across every stage of the oil and gas value chain. We seek opportunities in hydrocarbon investments across the globe and maximise the value of every molecule through our integrated business model.

Our portfolio includes conventional and unconventional resources and a diverse range of fuel, lubricant and petrochemical products. This is further strengthened with a successful product delivery track record.

Our customers are at the heart of everything that we do and our businesses are anchored on meeting their needs.

Our technology is our differentiator and the key to ensuring excellence in all that we offer – energy, products and solutions, as well as unlocking new opportunities.

Sustainability is at the core of everything that we do, as we believe in harnessing the good in energy to add quality to everyday lives.

People are our strength and our partners for growth.



SHARED VALUES

Loyalty

Integrity

Honest and upright

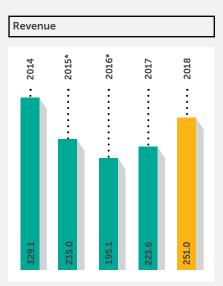
Professionalism

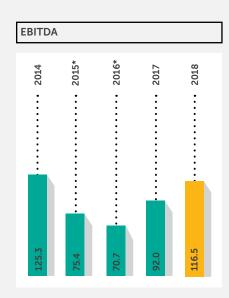
Strive for excellence

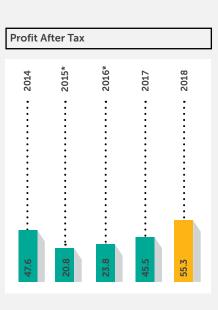
Cohesiveness

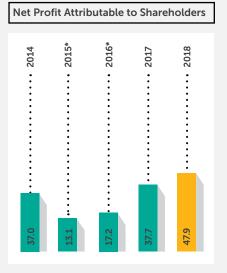
United, trust and espect for each other

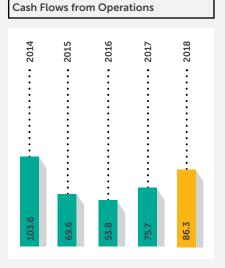
PETRONAS' FIVE-YEAR KEY FINANCIAL INDICATORS (RM BILLION)

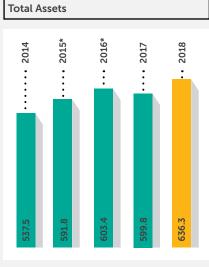












| Financial Ratios | FY2014 | FY2015* | FY2016* | FY2017 | FY2018 |
|------------------------------------|--------|---------|---------|--------|--------|
| PAT Margin | 14.5% | 8.8% | 12.2% | 20.3% | 22.0% |
| Return on Total Assets (ROTA) | 14.1% | 5.8% | 5.4% | 10.7% | 11.8% |
| Return on Average Capital Employed | | | | | |
| (ROACE) | 11.9% | 5.1% | 5.4% | 9.8% | 12.0% |
| Debt/Assets Ratio | 0.07x | 0.10x | 0.11x | 0.11x | 0.11x |
| Gearing Ratio | 12.6% | 16.0% | 17.4% | 16.1% | 19.7% |
| Dividend Payout Ratio | 53.6% | 70.2% | >100% | 93.0% | 69.0% |

Certain financial information and its corresponding financial ratios have been restated due to the change in accounting policies with respect to revenue reporting and inventory valuation for gas trading activities.

MESSAGE FROM THE PRESIDENT AND GROUP CHIEF EXECUTIVE OFFICER



"As we transition towards a low carbon economy, PETRONAS is committed to managing the impact of climate change through advancing operational discipline and capabilities as well as harnessing technological developments in ensuring a sustainable and better energy future for generations to come."

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LETTER FROM THE CHAIRMAN, CORPORATE SUSTAINABILITY COUNCIL



The year 2018 was characterised by greater volatility in oil and commodity prices and diverging geopolitical and macroeconomic trends. While forecasting the state of the world in the next few decades is not easy, megatrends are providing indications of potential opportunities and challenges on the horizon.

Sustainabilit

LETTER FROM THE CHAIRMAN, CORPORATE SUSTAINABILITY COUNCIL

The growth of the global population, rapid urbanisation, demographic change and changing societal needs will lead to an increased demand for energy and resources.

At the same time, a growing push for sustainability and collective action on climate change are disrupting how we work. Consumers, organisations and governments are now actively exploring ways for efficient energy use, putting environmental awareness into practice and at the fore of their focus.

In the face of rising concerns, PETRONAS aims to be more agile and resilient by enhancing our competitive advantage. We'll continue in our commitment to delivering safe, secure and clean energy solutions for the people and environment and enriching the lives of the communities where we operate.

THE ENERGY TRANSITION

Energy is an essential commodity - a clean, affordable and accessible energy is important for economic growth, particularly in developing nations. In moving towards a low-carbon future, businesses and government agencies are reducing the environmental impact of the way we work, travel and power economy with renewable energy and resources.

To manage the energy transition that is taking place, PETRONAS applies the three-pronged strategy for business sustainability: maximising cash generation, expanding our core business and stepping out to future-proof the organisation.

As a global player in the energy sector, we take a holistic approach across our businesses in addressing this shift in the energy world. We supply affordable energy reliably and at the same time we embrace the production of resources in a sustainable manner

Here, we are guided by the PETRONAS Climate Change Framework, which is reinforced by extensive efforts, from measuring and reducing GHG emissions as well as adapting to the impact of climate change. We have recorded GHG reductions of over 12 million tonnes of carbon dioxide equivalent (tCO_{2e}), cumulatively between 2012 and 2018.

We have also made inroads into a low-carbon economy with the Company's investment in solar energy and embarked on a technology agenda that will strengthen our commitment to deliver cleaner energy.

Our efforts indeed reflect our commitment to move towards sustainable energy, which will ultimately result in a safe and prosperous future for our communities and stakeholders.

PEOPLE AS OUR ASSET

Our people are important assets to the Company and we strive to create a conducive working environment that allows talents to thrive, which includes a safe workplace with ample opportunities for them to progress in their careers through various programmes aimed at enhancing knowledge and skills. By embedding the principles of diversity and inclusion in the way we do business, we have created a diverse workforce and an inclusive environment that nurtures and respects different people.

In creating sustainable socio-economic development, we continue to empower local communities with the right knowledge, skills and capabilities, guided by the PETRONAS Corporate Social Responsibility (CSR) Framework. Our community development initiatives focus specifically on education, community well-being and environment.



These CSR initiatives are invested and conducted in a sustainable manner, effectively achieved through our engagement and collaboration with relevant stakeholders. This active engagement is even more crucial when implementing high-impact programmes and projects that will benefit local communities.

SAFETY OF OUR PEOPLE

The safety of our people, both at operational and office facilities, remains our top priority. To ensure everyone goes home safely, it is our commitment to safeguard the people, the well-being of the environment as well as communities living in the vicinity of our operations.

We have continued to improve our Health, Safety, Security and Environment (HSSE) performance in 2018. We recorded improvements in Lost Time Injury Frequency (LTIF) from 0.17 number of cases per million man-hours in 2017 to 0.09.

Intensive efforts have also been channelled into improving the design, technical and operational integrity of our assets. This has resulted in improvements in the process safety incident. In 2018, we recorded a significant reduction in Tier 1 Process Safety Event (PSE) to eight cases this year from 12 in 2017.

To sustain HSSE excellence, we focus on building the right mindset. With this in mind, we have launched a series of "Because We Care" initiatives to foster and create a culture of genuine care in the workplace. This will translate not just to more engaged employees, but also the strengthening of PETRONAS Cultural Beliefs within the organisation in the long term.

OUR JOURNEY TOGETHER

Sustainability is a business prerequisite for long-term growth. The PETRONAS Corporate Sustainability Framework (CSF) outlines nine areas that are applicable to all aspects of our operations, groupwide. They guide the overall decisionmaking and underscore the Company's commitment to undertake business in a responsible and sustainable manner. To this end, I would like to call upon all our stakeholders to continue lending us your unwavering support in our journey towards a sustainable future.

Thank you.

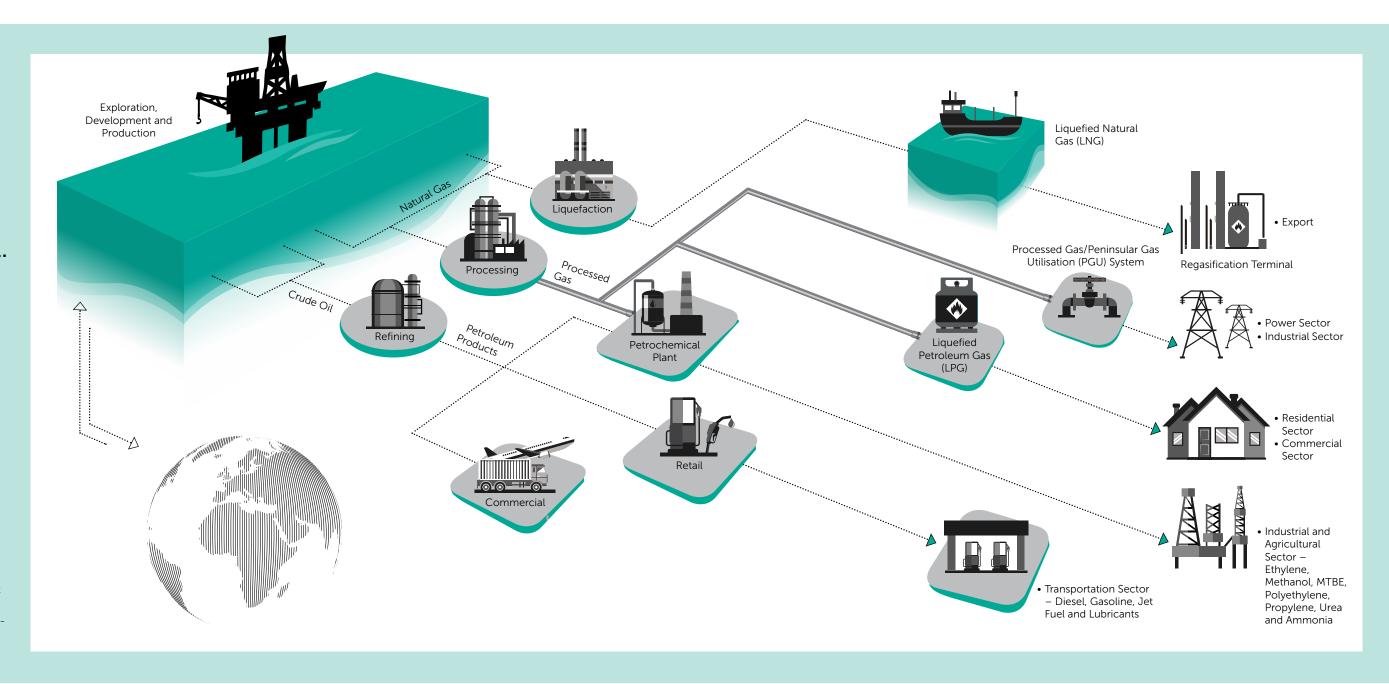
SUSTAINABLE VALUE CREATION

SUSTAINABLE VALUE CREATION

Every day, we work towards safe, secure and cleaner energy whilst striving towards prosperity for all.

For PETRONAS to deliver value, remain fit for the future and continuously generate social, economic and environmental impact, our strategies must adapt to changing times and address multiple challenges. Our purpose is to be a progressive energy and solutions partner enriching lives for a sustainable future. As the energy sector is in a phase of relatively rapid transition, our sustainability focus is not a static overview.

We are continuously moving forward with better solutions to respond to the risks and new opportunities presented to us. Our aim is to minimise the impact of our own footprint whilst developing and delivering climatefriendly strategies and solutions.



EXPLORATION AND PRODUCTION

EXPLORATION

Developing resource potential and building up commercial

DEVELOPMENT Field development and construction (including

supporting

infrastructure).

PRODUCTION Drilling and production of hydrocarbons.

PROCESSING

LIQUEFACTION

Converting gas into liquid state by increasing pressure and reducing temperatures to shrink the gas volume.

PROCESSING Turning streams

of natural gas

products, in

gas deposits.

into commercial

addition to treating

Processing crude oil and condensates into useful petroleum products.

REFINING

MARKETING AND DISTRIBUTION

RETAIL

Selling and marketing of fuel and non-fuel products and providing onestop convenience centres at service stations

COMMERCIAL Trading and

marketing of crude oil and petroleum products to individual and commercial customers.

PETROCHEMICAL

Processing of oil and gas into products from which other chemicals are derived.

LIQUEFIED PETROLEUM GAS (LPG)

Propane and butane components used as cooking fuel, transport fuel and feedstock for petrochemicals

PROCESSED GAS/ **PENINSULAR GAS** UTILISATION

(PGU) SYSTEM Natural gas is processed and fed into a pipeline system that delivers it to different sectors.

LIQUEFIED **NATURAL GAS** (LNG)

Natural gas that is liquefied under extremely cold temperatures to facilitate storage or transportation in specially designed vessels.