

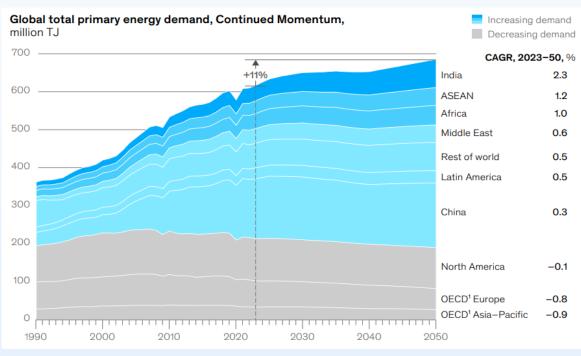


Global Energy Outlook - Trend and Transformation on The Demand Side



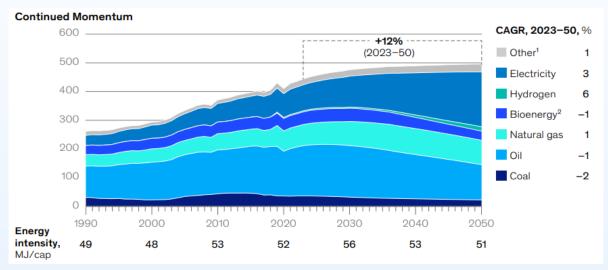
Rapid Growth in Clean Energy, but Fossil Fuels are Projected to Continue to Account For a Significant Share

Global energy demand is projected to grow by between 11 percent (in the Continued Momentum scenario) by 2050. Emerging economies in the ASEAN region, India, and the Middle East will account for the majority of demand growth.



Source: McKinsey & Company Global Energy Perspective 2024

The share of electricity in final consumption is projected to be 32 to 48 percent by 2050



Source: McKinsey & Company Global Energy Perspective 2024

The increase in consumption is largely due to the same fundamentals underlying global energy demand: population growth and increasing GDP per capita. The extent of this growth in consumption varies significantly by scenario due to differences in energy efficiency and electrification. **Despite the uptake of electrification, fossil fuels are projected to continue to account for a significant share of the energy mix to 2050**.

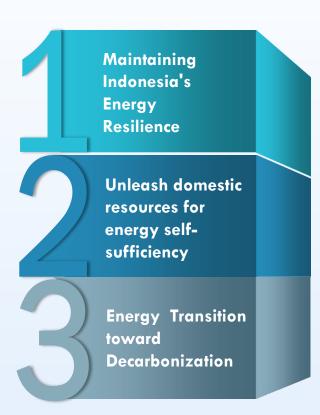
Pertamina's role as National Energy Company to fulfill energy demand & energy transition





The mission to strengthen the nation's independence through energy self**sufficiency** is one of the key pillars of the national development strategy.

Pertamina's strategic role to support Indonesia Govt achieve net zero 2060 by developing roadmap decarbonization and green business





Pertamina prioritizes inclusivity to support its ESG commitments, ensuring that diversity and equal opportunities are integral to its sustainability strategy



1st Winner Gender Inclusive Workplac from Women Empowermem Principal (WEP)

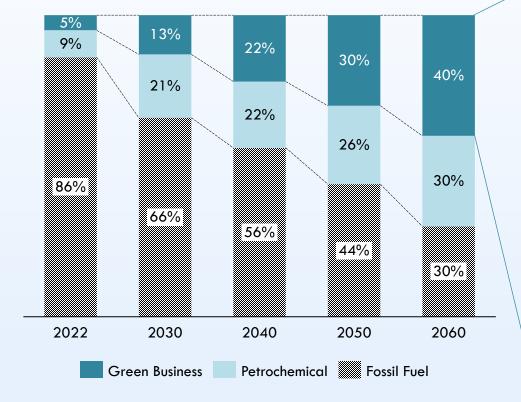


3rd Winner Companies that employ workers with disabilities from Ministry of Manpower

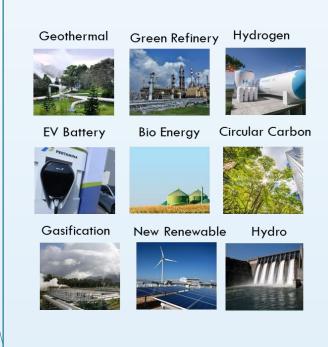
Pertamina will Develop Indonesia Renewables Energy Potential to Secure **National Energy Security**



Business Pathway to Net Zero Emission (Pertamina Revenue Mix)



Opportunities for Indonesia New & **Renewables Energy Portfolio**



Key targets 2025 (and 2029)



Geothermal Capacity

0.9 GW (1.4 GW)



Renewables (Solar, Wind, Bio)



Gas-to-Power

65 MW

(1.2 GW)



(3.4 GW)



Green Hydrogen

(77 ktpa)



NBS & Carbon



Trading

1.6 mn tCO2e

(19 mn tCO2e)



CCS/CCUS

(2 mtpa)



Bioethanol

(630k KL/y)



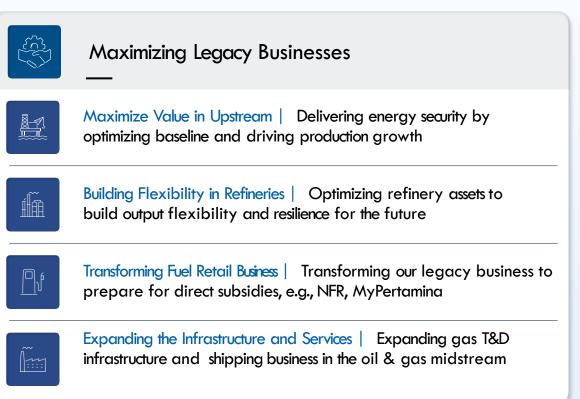
EV and Battery

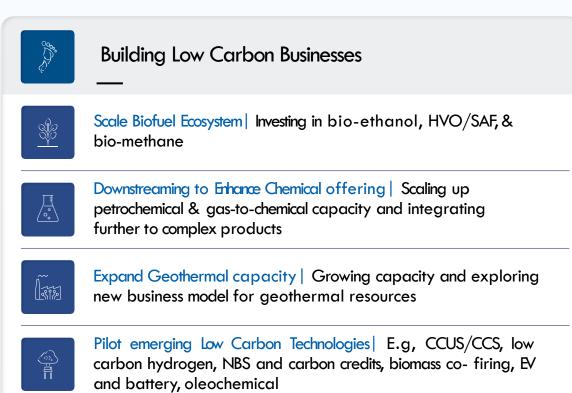
11.4 GWh (2 GWh)

Pertamina focuses on "DUAL GROWTH STRATEGY" which is designed to strengthen Indonesia's energy security & low carbon business development for the energy transition



Referring to RJPP 2025-2029 (Supl. 2034), Pertamina will carry out a "dual growth strategy" in an effort to maintain energy security, energy affordability as well as efforts to achieve net zero emissions by 2060 (or sooner). In the context of this dual growth strategy, there will be new projects in both the existing/legacy business and new business (low carbon) categories.





HSSE and Sustainability



Technology & Innovation



Digital Transformation



Policy/ Regulation Advocacy

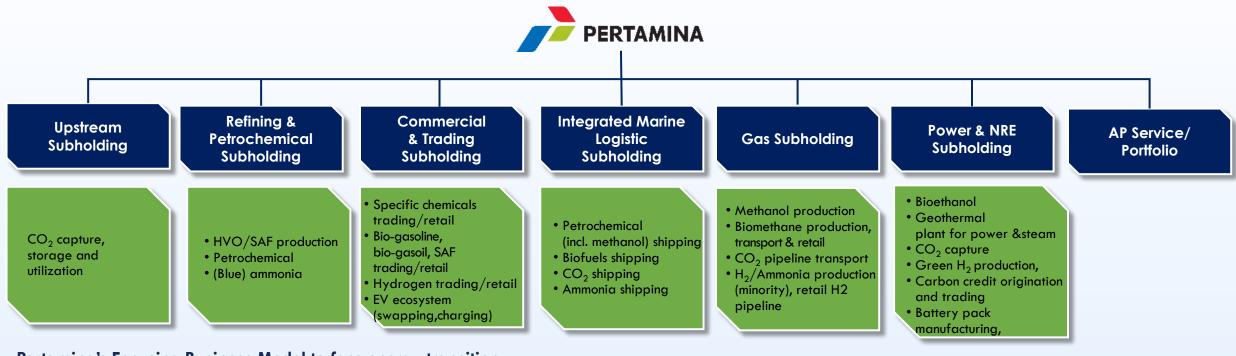


Human Capital and Stakeholder Mat

Pertamina Organization Facing Energy Transition



We are building low carbon businesses, fostering collaboration across sub-holdings



Pertamina's Focusing Business Model to face energy transition



The development of business capabilities that were previously mixed between one business and another, has become more focused through centers of excellence in each subholding.



R&D, we are actively advancing research and development (R&D) to facilitate the nation's energy transition. R&D towards energy transitions are led by RTI Team



Partnerships & Funding, which were previously centralized, have become decentralized so that there is more flexibility in partnerships and funding in each business group/subholding



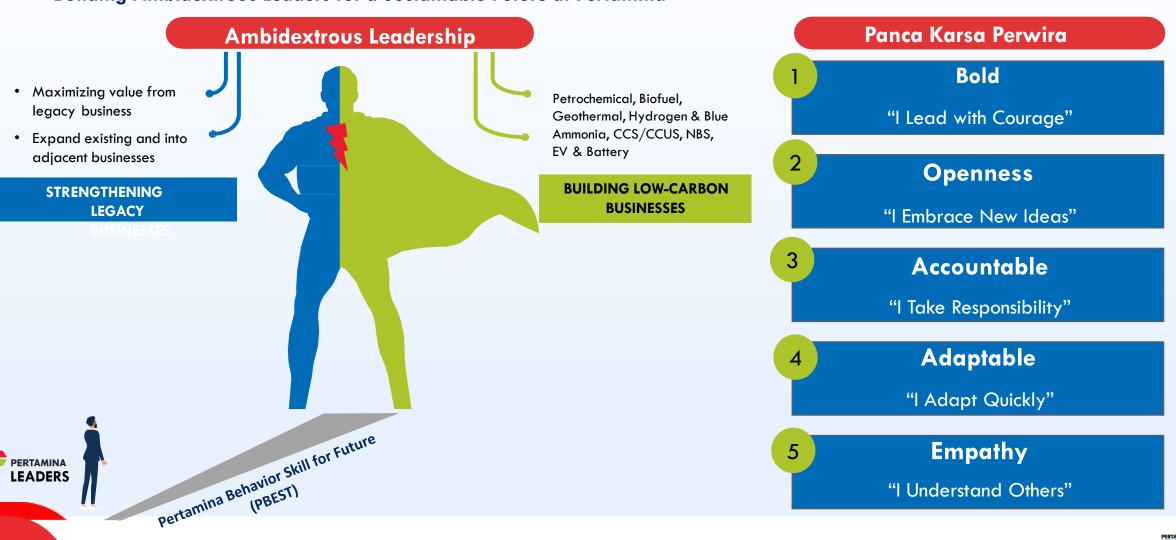
Capability Development & Career Structure Human Capital, previously linear in a function or directorate, has become more diverse (managerial & expert/specialist track) between holding-subholding.

Talent Development Framework to Support Pertamina's Dual Growth (1/8)



Leadership Program

"Building Ambidextrous Leaders for a Sustainable Future at Pertamina"



Talent Development Framework to Support Pertamina's Dual Growth (2/8)



Leadership Program

Development Program Building Block



ENFORCE

"Fundamental Mandatory"

A core program to strengthen leadership skills and critical behaviors, empowering employees to excel in their roles and responsibilities

All Employees, Based on Career Levels at Pertamina

- VLDP (Visionary) → PRL > 24
- SLDP (Strategic) → PRL 22-24
- OLDP (Operational) → PRL 19-20
- PLDP (People) → PRL 16-18
- TLDP (Team) \rightarrow PRL 14-15
- ELDP (Early) → PRL 12-13
- EWA (Effective Working Attitude) → PRL<12



ENHANCE

"Acceleration"

An accelerated program to prepare Pertamina's Top Talent for future leadership roles

Top Talent

- Catalyser Mastery → PRL 22-24
- Catalyser → PRL 19-21
- Traiblazer → PRL 16-18



ENRICH

"Complimentary & Gap Fulfilment"

Leadership development enrichment program tailored to individual development plans, designed to equip leaders with skills aligned with Pertamina's future needs and strategic goals

Based on Individual/Functional Development Plans

- CBDP (Competency-Based Dev. Program)
- Women Leader Empowerment
- Agile Leadership
- Diversity, Equity, Inclusion (DEI)
- Design Thinking
- Project Management
- Vision Speech
- Stakeholder Management
- Etc.

Objective

Participant

Talent Development Framework to Support Pertamina's Dual Growth (3/8)



Leadership Program

Catalyser Program



Prepares future leaders for clean energy challenges.

Preparing talent pipeline & accelerating leadership skill for SVP & VP level successors

Focus: Energy Business, Innovation & Technology, and Global Enterprise.

Participants: Around 411 employees have participated in the Catalyser Program from 2018 to 2023

Trailblazer Leadership Prgram



Prepares future managerial level for clean energy challenges.

Preparing talent pipeline & accelerating leadership skill for Manager level successors

Focus: Building Networks, Operational Devision Making, Building Talent, Business Insights with embedded competencies of ESG & Safety

Participants: Around 1799 employees have participated in the Trailblazer Program from 2018 to 2024

Sustainability Academy



Provides a structured framework to develop the competencies needed to meet Pertamina's sustainability and ESG objectives.

- 1 Sustainability Transcendence Forum (STF)
- 2 Sustainability Champion Program (STAC)
- 3 Sustainability Accelerator Program (SNAP)
- 4 Sustainability Awareness Program (SUNRISE)

Talent Development Framework to Support Pertamina's Dual Growth (4/8)

PERTAMINA

Leadership Program

ENERGI Series Program



Elevate to INnovate LeadErs in RefininG & Petrochemical

ENERGI Coaching Objectives:

- 1. The program lasts for 4-6 months online/offline.
- Fulfillment of PT KPI leadership competency gap at VP/GM level
 - Driving Innovation
 - Strategic Orientation
 - Global Business Savvy

Directorship Objectives:

- 1. The program lasts for 1 day online.
- Improving the competence/insight of Leaders in supporting future R&P business.

FUEL Series Program



FUEling Leaders for The Future

Fuel Forum

- . In the classroom and consisting of 4-6 sessions.
- 2. Objectives: Addressing the leadership competency gap for PT Kilang Pertamina Internasional at the managerial level or equivalent.
 - Building organizational talent.
 - Gaining entrepreneurial insights.
 - Establishing a strategic direction.

Fuel Webinar

- 1. In an online webinar and consisting of 2-4 sessions.
- 2. Objectives: Enhancing the competencies/insights of leaders to support the future R&P business.

National Service Program



The National Service Training Program is an initiative organized by Pertamina in collaboration with the Indonesian Army (TNI AD).

Objectives:

- 1. Increasing the Spirit of Nationalism.
- Increasing insight and basic skills in defending the country.
- 3. Strengthening the role of workers to support business and the national economy.
- Awareness of radicalism and intolerance.

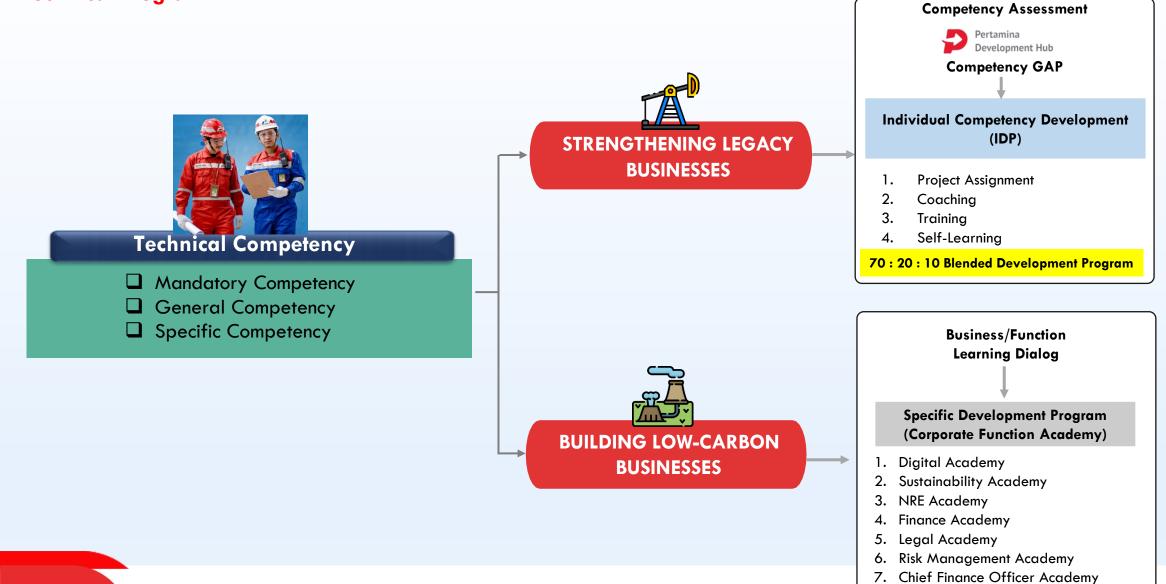
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Talent Development Framework to Support Pertamina's Dual Growth (5/8)







Talent Development Framework to Support Pertamina's Dual Growth (6/8)



Technical Program

New Renewable Energy [NRE] Academy

Multi skill group Participant for NRE

Modul consist of:

- **Project Exposure**
- Job Assignment
- Skill Briefing
- Coaching
- Expert Mentoring / Immersion
- Networking Assignment

Sustainability Champion Academy in **Commercial & Trading**

Develop the competencies needed to meet sustainability and ESG objectives, specifically in Commercial & Trading

- Green Business Development
- Sustainability Operation
- **Green Innovation & Product Development**

NRE Champion

2705 Training Program Participants

Providing basic understanding and knowledge of the 11 streams

- Geothermal Hydro Power
- CCUS

- Wind
- Waste to Energy Green
 - Fuel

- Solar
- Hydrogen EV Baterry
 - Carbon Market

On The Job Development / Experiential Learning



1 (one) year Talent Development program for developing the EV battery manufacturing business with PT Toyota Motor Manufacturing Indonesia

- Manufacturing Operation
- Knowledge Battery, Cell Manufacturing, Pack Manufacturing, EV Manufacturing

NRE Coaching & Webinars



NRE knowledge sharing through Leader Forum and POLS (Pertamina Online Learning & Sharing with numerous expert speakers

On The Job Development / Experiential Learning

6 Month



6 (six) month Talent Development program for developing business with Totsa

Knowledge transfer/capability building of PT KPI workers includes aspects of crude sourcing, logistics, refinery optimization, trading, market risk management (hedging) which will be carried out, among others, through: online, webinars, etc.

Technical Program to Develop Global Talent in the Energy Transition (7/8)

PERTAMINA

Technical Program

PETROCHEMICAL ACADEMY



REFINERY OF THE FUTURE
Petrochemicals, Biofuel, & Blue Amonia

- 1.Chemicals Market & Petrochemicals business Expansion
- 2.Biofuel Market & Business Develpment
- 3.Blue Amonia & CCS: Technology, market & Regulatory Landscape

PCU Digital Learning 2024

The Digital Learning Program 2024 aims to create globally competitive talent by leveraging Artificial Intelligence (AI) technology.



15.000 user accounts.

As a fulfillment of the development program according to the competency gap in the IDP Program.

Participants are Holding & Subholding Workers.



ELSA

Al-based learning that is personal using ELSA Apps (300 Users).

Blended Learning; a combination of Albased learning with virtual classes with native speakers & specific curriculum tailored to needs (500 Users).

Participants are Level Up Holding Managers.



User accounts for 300 participants.

Al based that focuses on providing dynamic and data-based Technology and Science curriculum. Participants are Holding & SH Workers.

Mini Master of Laws



Develop competencies in the legal field, especially in legal politics, human rights, comparative law and business competition, commercial contracts, investment, capital markets, etc.



Merger & Acquisition Competency Development

The Merger & Acquisition Training develop an indepth exploration of the entire M&A cycle—from strategy development to post-transaction integration.

Accounting & Financial Management for HC Managers — Pertamina & Faculty of Economics and Business (FEB) UGM

Five days of intensive training to equip HC Managers with basic knowledge and skills related to finance, which will help in decision-making processes, understanding financial statements, and contributing effectively to the financial success of the company.

Program Stages:

- Training
- Mentoring
- Presentation

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Talent Development Framework to Support Pertamina's Dual Growth (8/8)



Strengthening Programs to Support the Energy Transition

Formal Education [scholarship]

Master and Doctoral Overseas Education Scholarship focusing in New & Renewable Expertise

Cooperation in Education





Cooperation between University of Pertamina & Kyushu University, to develop talent in Research, Technology & Innovation in New Renewable

HIRING EXPERT



- Catalyst, PVC producer including backward integration in PVC Compounds, PVC Pipes
- Global key account
- Commercialization

PERTIWI

PERTIWI Journey

For the past 4 years PERTIWI has been delivering impact in promoting gender equality to support business 2024



Menginspirasi

2021, the PERTIWI

series tackles a

new and compelling

since

Running



Coaching & Mentoring

PERTIWI continued the coaching participation significantly



Respectful Workplace Policy

Pertamina and advocate RWP to adopted in BUMN





PERTIWI Coaching









