

Board of Directors Strategic Thinking Session 2022

Sustainability

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Strategic Move to the New ERA





Enabler





Embedded Digitization



Reformed
People Readiness

Restart Sustainability Driver for Sustainable Growth by 3C

Low Carbon +



Climate change

Support **low carbon society** and sustainable roadmap to net zero









Circular Economy

Create Living + for all stakeholders through waste minimization and Eco solution business and service







Living +

Recognition + reating Shared Value

Honors and awards from **positively impact** the health and wellbeing of people through our products and business









Impact of GHG & Climate Change Thailand Commitment



COP26 Glasgow Climate Pact



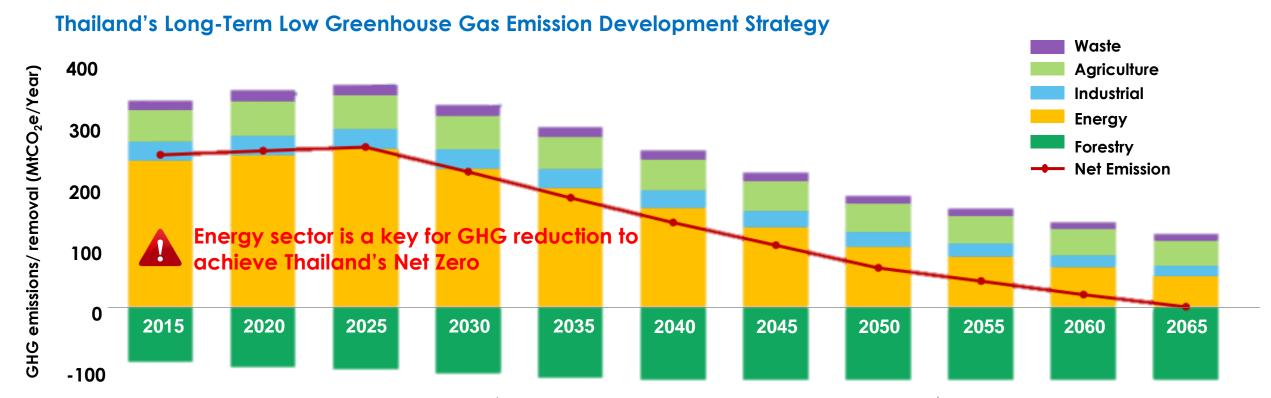


Emission cut by 40% in 2030* Carbon Neutral in 2050 and Net-Zero in 2065

Key Actions

- 100% EV sales by 2035
- Expand carbon sink in the forestry
- Expand renewable energy aeneration

Note: * Base on projected Business-as-usual (BAU) level by 2030



Sustainability Driver

Climate change

Support **low carbon society** and sustainable roadmap to net zero



Low Carbon +

Aspiration

IRPC aims to...



Commit to reduce emissions by

20% by 2030*

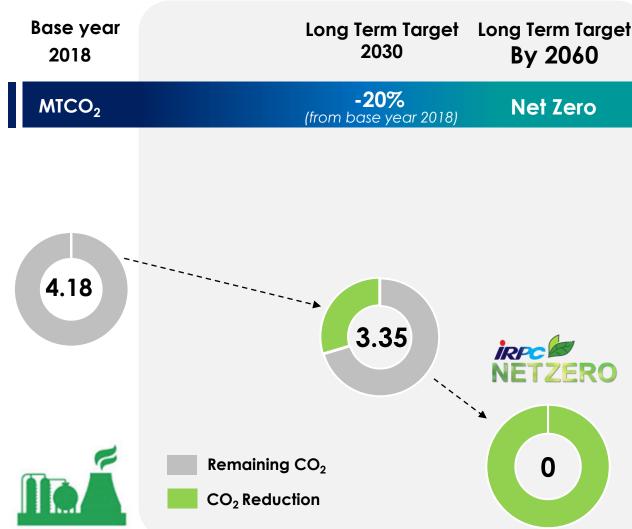
Carbon Neutrality 2050

Net Zero by 2060

* Base year 2018

Our Journey ... To be NET ZERO by 2060 with **ERA**





Note: Number refer to Absolute Remaining CO2

- 5 years turn back from current
- Normal operation

Note: Base year 2018

3 Core Pillars to Drive Net Zero Commitments.

Eco-operation & technology

Eco-Operation

Energy Intensity Index (EII)

Greener Power

Solar Power & Divest Coal

2 Reshape portfolio

Low Carbon Business

- Renewable Business
- Decarbonized Product

Clean Technology

- H2 Ecosystem
- Decarbonized Startup





CCS

CCS with in PTT group

Forestation

PTT Collaboration



Eco-operation & technology





Switching operations to renewable energy and alternative fuels, and achieving energy savings project by innovation



Eco-Operation



Utilize every means to increase energy efficiency and reduce GHG emission.

- **Ell** Top Quartile ~83% in 2025
- Zero routine flaring



Greener Energy 🔐



Switching operations to renewable energy and alternative fuels.

- Solar (Floating, Rooftop, Solar Farm)
- Divest Coal (U03,04) to NG
- Divest Coal (U02) to 50MW (Fuel Cell Study)

Reshape portfolio





Portfolio adjustment to low carbon and clean technology project



Low Carbon Business 👚



Renewable Business

- Solar-Wind-Battery
- Innovative Solutions Provider for renewable energy e.g. Flex Solar PV, Nano Coating, Pontoon and Bifacial PV

Decarbonized Product

- Bio energy: Bio jet study
- Explore business opportunities of CCU



Clean Technology 🗰



- Seeking new opportunities in H2 ecosystem
- Scouting potential startup via Decarbonize Thailand Startup Sandbox program



3 Absorption and offset







Capture & offset carbon using CCS technologies and nature





CCS technology through collaboration with in PTT group



🤼 Forestation

- The creation of stakeholder engagement and social impact through community forest development
- Taking credits from forestation projects to offset CO₂ emission from operations

Key Considerations as IRPC Start to Execute Net Zero



WHAT

Three Core Pillars to Drive Net Zero Commitments.



Eco-operation & technology

Shift the operation from fossil based power to renewable energy and increase energy efficiency

Reshape portfolio



Adjust portfolio by investing in nonoil with Eco-Solutions

Absorption and offset



WHEN

Commit to reduce emissions by 20% by 2030*

Carbon Neutrality 2050

Net Zero by 2060

* Base year 2018



- Indicator - Carbon Price



WAY FORWARD

Start to execute Net Zero



Governance and Organization



Investing and Financing



Carbon inclusive investment



ESG Financing

Processes



Accounting and Reporting



People

Sustainability Driver



Create Living + for all stakeholders through waste minimization and Eco solution business and services



Living +

Aspiration

IRPC aims to ...

Build the ECO-Solutions and

Turning Waste to Value

Policy: Maintain Zero waste to landfill

- A Waste utilization with 3R principle > 95% in 2040
- B Waste to value (IRPC Circular Concept)

Sustainability Driver



Honors and awards from **positively impact** the health and wellbeing of people through our products and business



Recognition +

Aspiration

IRPC aims to...

Uplifts the sustainable value to stakeholder by

Increase 20% of True Value in 2030

Economy — Ecology — Social

Note: IRPC True Value Assessment 2021 at 10%