

## PTT's Portfolio Transformation to achieve Net Zero Target



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### Clean energy is a key to achieve Net Zero target



#### **Effective Energy Architecture**

is timely, inclusive, sustainable, affordable and secure

# Security & Environmental Sustainability Energy Triangle

Economic Development & Growth

#### **Combination of Solutions needed**

to achieve net zero & solve energy transition challenge

Increasing Energy Efficiency

67% of all primary energy losses due to inefficiencies in electricity generation, heavy industry & buildings



Developing Low Carbon Energy

Switching energy sources to renewable, but scalable solutions still being developed



Capturing Unavoidable Emission

Carbon capture playing a role through carbon capture and storage (CCS) facilities or with nature-based solutions



#### PTT's New Vision



### Powering Life with Future Energy and Beyond

#### **FUTURE ENERGY**



**BEYOND** 









Target by 2030:



#### **Business Growth**

LNG: 9 MTA Power (Conventional): 8 GW Renewable Energy: 15 GW



#### **New Growth**

Investment & NI Future Energy and beyond > 30%

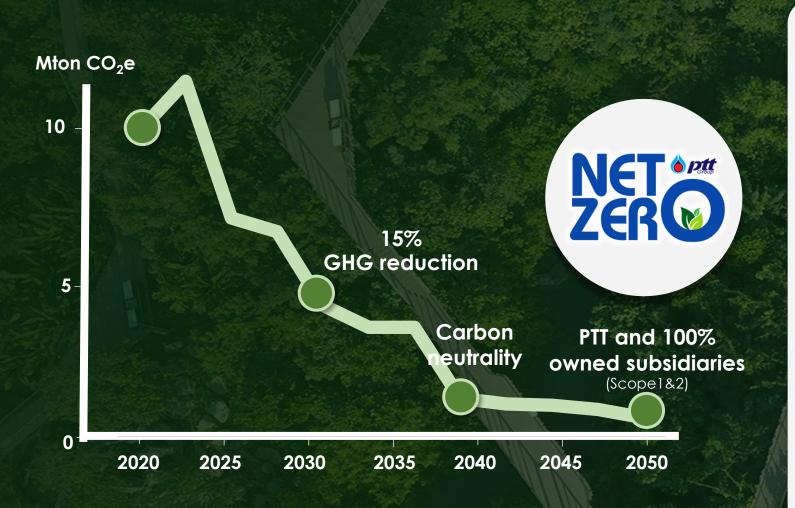


#### **Clean Growth**

15% Greenhouse Gas reduction from 2020

### 6 Pitt

### PTT Moving toward Carbon Neutrality by 2040 and Net Zero Emissions by 2050



### 3P Decarbonization Pathways



~30 %

(Clean growth)

15% GHG reduction from 2020 by 2030

GHG Reduction Initiatives
Carbon offset / RECs





### Portfolio Transformation

(Business growth)
RE 15 GW by 2030

(Green portfolio)

Future Energy and Beyond 32% of CAPEX 2021 - 2030



### Partnership with Nature and Society

(Reforestation) PTT: 395,000 Acre by 2030

(PTT's Existing): 440,900 Acre

### Pursuit of Lower Emissions



Aiming to reduce GHG as many as possible through energy efficiency and new initiatives





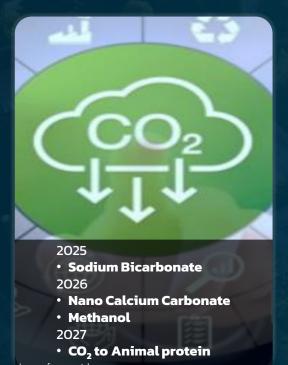
#### Pursuit of Lower Emissions

Portiolio Transformation
Partnership with Nature and Society

CCS



CCU



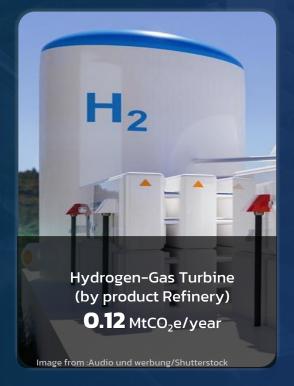
Renewable Energy in Operation



Accumulated CO<sub>2</sub> reduction **1.0** MtonCO<sub>2</sub>e

at 2030

**Hydrogen** 



### Pioneering Renewable Energy Certificate (REC) Marketplace













### Portfolio Transformation to Green Energy

RENEWABLE ENERGY BUSINESS

Target 15 GW By 2030



**ENERGY STORAGE** 





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### Invest in EV Value Chain to become Automotive Hub of Asia





### Partnership with Nature and Society

PTT Reforestation Project: adding 395,000 acres of forest/mangroves by 2030

To absorb 2.14 MtCO<sub>2</sub>e/year



