

Member of Dow Jones Sustainability Indices Powered by the S&P Global CSA

## **SET AWARDS 2022**

# **Sustainability Excellence**

6 September 2022

Mr. Montri Rawanchaikul Chief Executive Officer PTT Exploration and Production Public Company Limited



<sup>2/16</sup> 

## **PTTEP Sustainability**



#### "Energy Partner of Choice"

through Competitive Performance and Innovation for Long-term Value Creation

To achieve our vision of becoming the "Energy Partner of Choice", PTTEP has developed the Sustainability Framework comprising:

- High Performance Organization (HPO)
- Governance, Risk Management and Compliance (GRC)
- Sustainable Value Creation (SVC)

SVC Sustainable Value Creation

"WORLD"

**"WE"** 

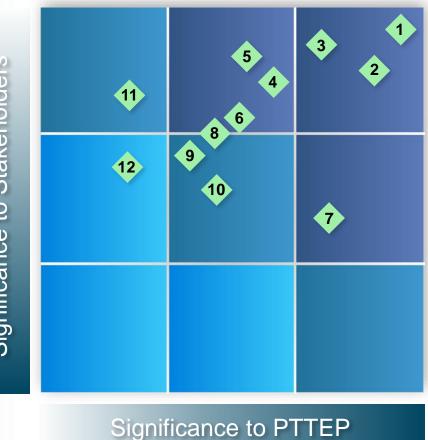


## **2022 PTTEP Materiality Issues**



Energy transition towards net zero is the highest significant for PTTEP and our stakeholders





- Energy Transition towards Net Zero
- 2 Technology and Innovations
- 3 Governance, Risk Management & Compliance
- 4 Safety, Security, Health and Environment
- 5 Contribution to Communities & Society
- 6 Human Resource Preparation
- 7 Circular Economy
- 8 Biodiversity Impact Management
- 9 Supply Chain Management
- 10 Cybersecurity
- 11 Human Rights
- 2 Stakeholder Management





### **Global Energy Crisis**

#### **Energy Transition**

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#### **Climate Change**



## **PTTEP Strategy**



### 1 DRIVE VALUE

### Strengthen E&P and ensure Thailand energy security

- Maximize production
- Expedite development
- Monetize discovery

Enhance competitiveness of unit cost

Expand gas-weighted portfolio and LNG business

#### 2 DECARBONIZE

Manage E&P for lower carbon portfolio

**Execute GHG emission reduction plan** 

Accelerate CCS projects

Maximize use of renewable and future energy in operation

Pursue emission offsetting and Ocean for life

#### 3 DIVERSIFY

Scale-up AI & Robotic Ventures (ARV)

Capture gas-to-power and renewable energy opportunity

Explore CCUS, H<sub>2</sub> and future energy

**Commercialize in-house technology** 









## **Driving Forces**







#### Exploring for Lower Carbon E&P Portfolio

1 Lower Carbon E&P Portfolio Management

#### **Production and Planet in Balance**

**Beyond** Conventional Practice

- 1 Zero Routine Flare for New Assets
- 2 Carbon Capture Utilization and Storage (CCUS)
- 3 Maximization of Renewable Energy in Operations
- 4 Full Application of Circular Economy Concept
- 5 Methane Emission Reduction via Technology

#### **Beyond** Operation

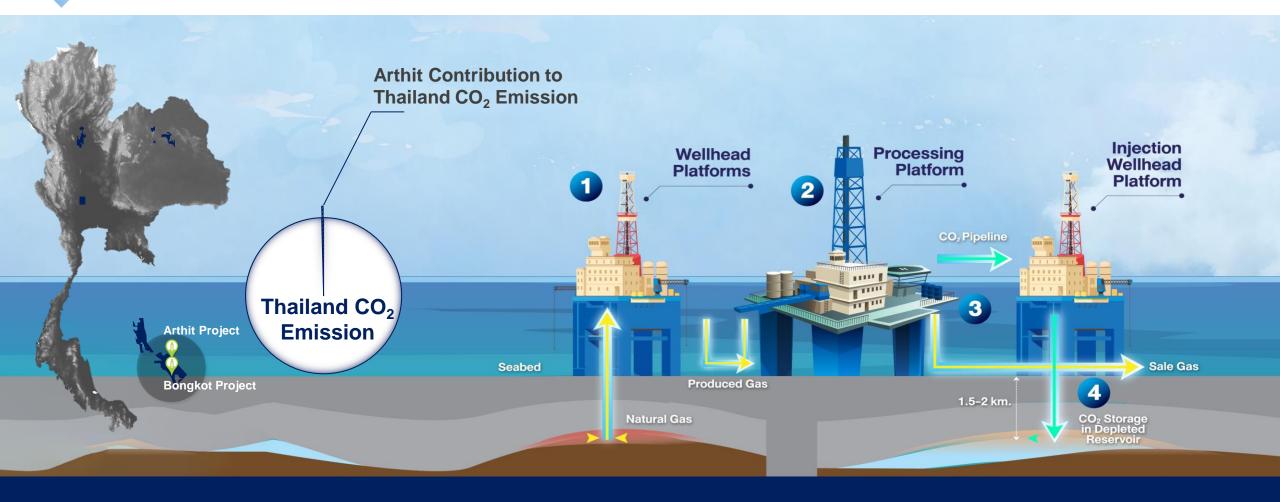
- 1 Carbon Removal Project (Blue Carbon and Land Forestation)
- 2 Advanced Carbon Removal Technology



## We need to do more to stay on Net Zero pathway



Arthit Carbon Capture Storage (CCS) Project

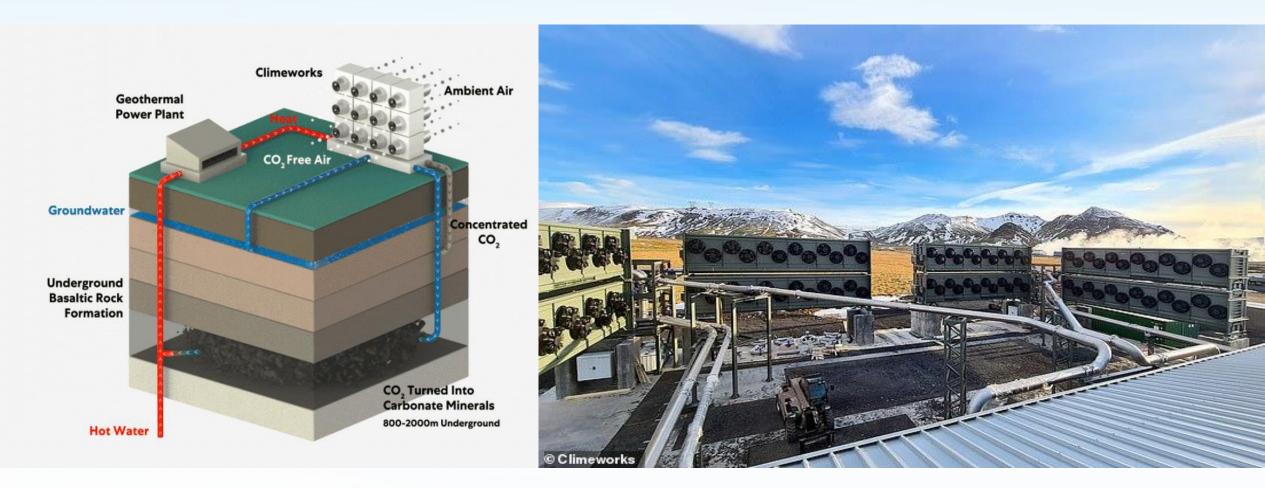


- Reducing emissions from upstream activities at Arthit
- "Pilot" project to initiate dialogue with Gov. & other stakeholders

## **Advanced technology: Direct Air Capture [DAC]**

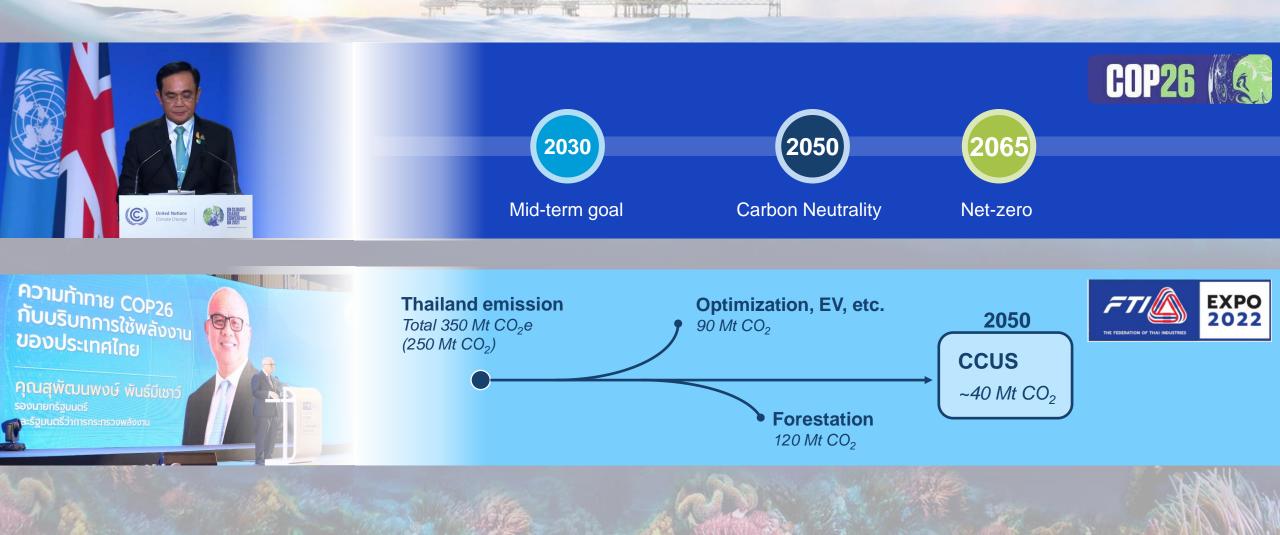


Method to capture CO<sub>2</sub> directly from air



## **Thailand's decarbonization goal**

Strong commitment that requires serious efforts from relevant parties

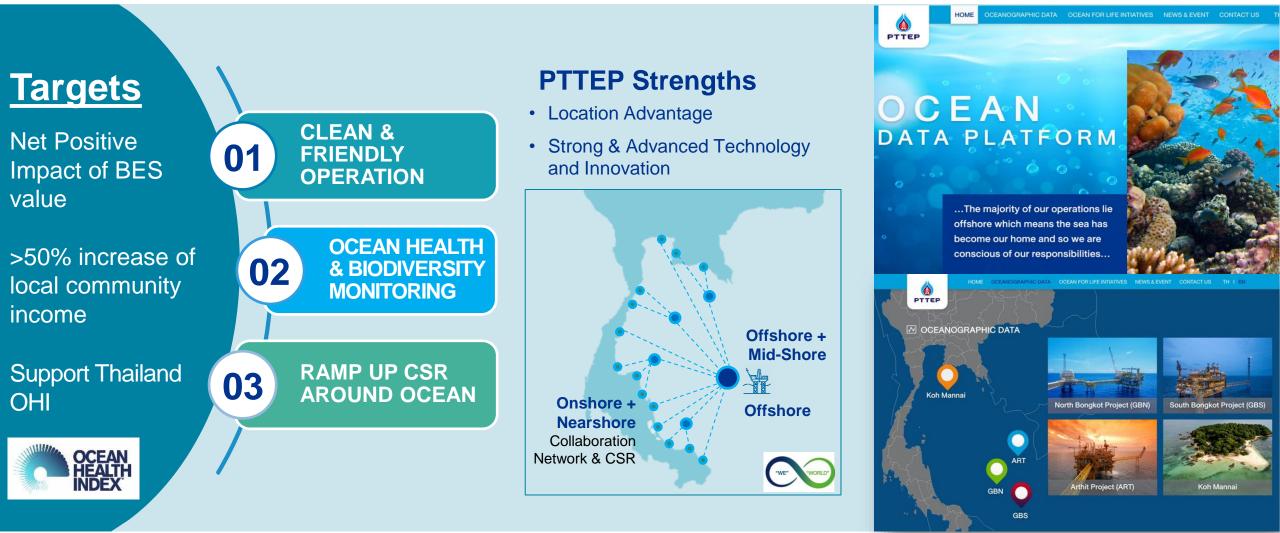






## **Ocean for Life Strategy**

Using our Strengths to support Social and Environment





## **Ocean for Life Initiative**



Highlight

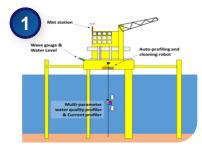
**Clean & Friendly Operation:** 1. Autonomous robots for offshore inspection



**Nautilus** 

ROV

#### Ocean Health & Biodiversity Monitoring: Using our advantage in location and technology 2.



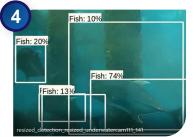
**Met-Ocean Station** 



1<sup>st</sup> Microplastic Baseline Study in GoT



**Current Mapper** 



**Aquatic Animal** Motion Detection



**Coral Bleaching Baseline** Study & Monitoring



**Blue Carbon** 

#### Ramp Up CSR around Ocean: 17 provinces around GoT 3.



**Ocean Waste** Management



Mangrove Forestation Aquatic Animal Hatchery Learning Center



Sea Turtle

Conservation



**Coastal Conservation** Area & Fish Home

Seafood Product Value Enhancement



H.T.M.S. Underwater Learning Site Project 15/16

