### **PTTEP Decarbonization Pathway**

11185-4014

สุศมา ปิตากุลดิลก

รักษาการ ผู้ช่วยกรรมการผู้จัดการใหญ่ สายงานความยั่งยืนและบริหารผู้มีส่วนได้ส่วนเสีย ปตท.สน.

22 ธันวาคม 2566

# Introduction to PTTEP

THURSDAY MAD

### **PTTEP Sustainability**



#### "Energy Partner of Choice"

through Competitive Performance and Innovation for Long-term Value Creation "WE" "WORLD"

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)



### **2023 PTTEP Materiality**



ESG





### **PTTEP Strategy Pillars**



#### 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





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







Scale up AI and Robotics Ventures (ARV)

**Develop Carbon Capture and Storage** (CCS) as a Service

Explore hydrogen, and offshore renewables







#### 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 and Carbon Credit Acquisition
- 2 Advanced Carbon Removal Technology

## **PTTEP Collaboration**

### **PTTEP Collaborations in Climate Management**



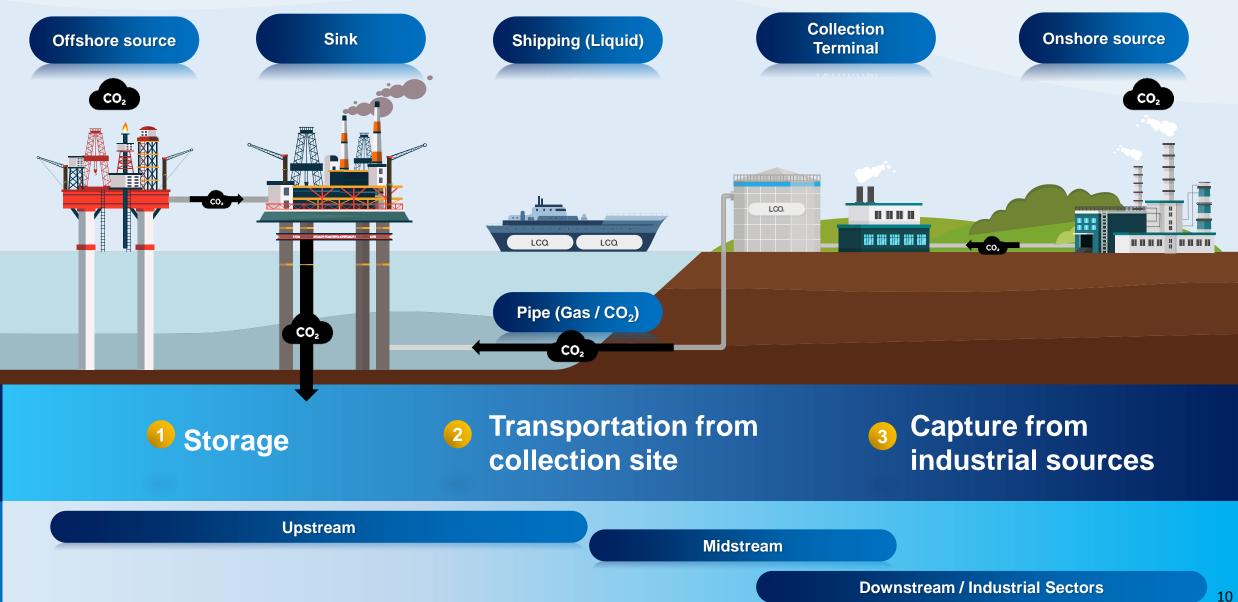


# **PTTEP Technology & Innovation**

### **Eastern Thailand CCS Hub model**

Function

Player



# **VARUNA NATURE-BASED SOLUTIONS**

#### Seeding the sustainable future

**Changes in Food** 

#### WE OFFER DECARBONIZATION THROUGH NATURE BASED SOLUTIONS WITH MEANINGFUL IMPACT





Demand



VARUNA Academy



GIS Satellite

**Smart Forest** 

AiANG

Eagle

Service Matching

Smart Farm

# **Carbon Sequestration Projects**

IIII III A MAD

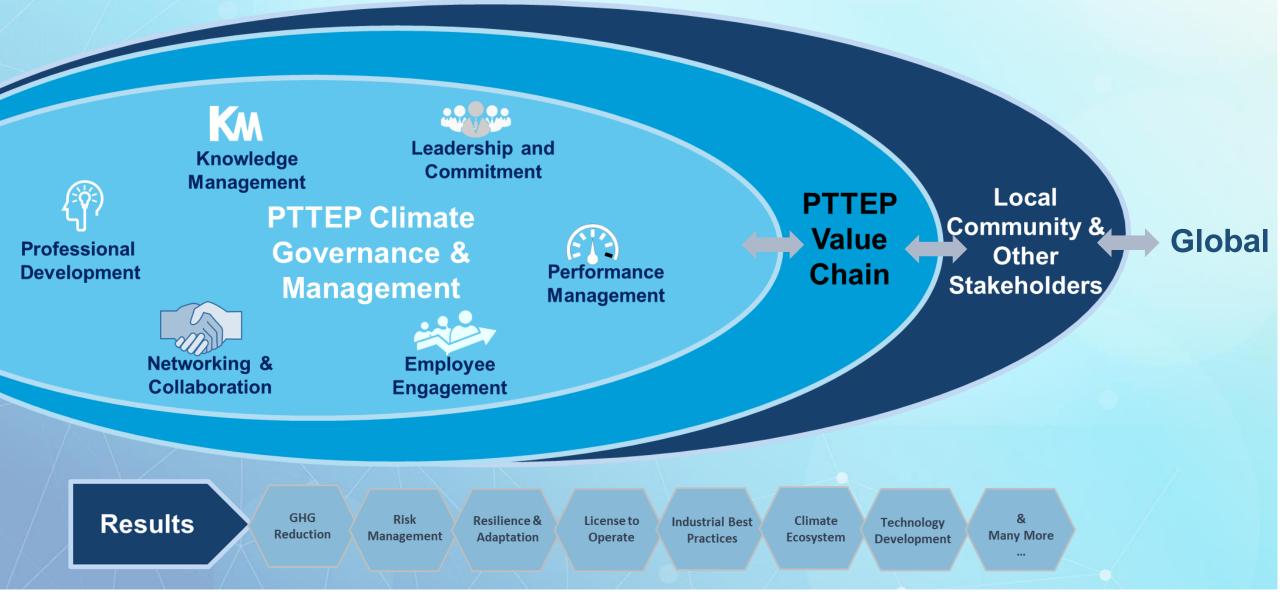
### **CO<sub>2</sub> Sequestration and Biodiversity Preservation**



# **Competency Build Up**

### **Climate Competency Build Up**







## **Social Development**





### **Achievement of CSR Projects**

#### 2030 Target







