Roles of JOGMEC towards CCS deployment in Asia

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Today’s topics

1. Introduction of JOGMEC
   (1) About JOGMEC
   (2) R&D on CCS
   (3) Projects in progress

2. CCS for Asia
   (4) CCS for Carbon Neutrality and Economic prosperity in Asia
   (5) Challenges for CCS deployment in Asia

3. Policies and measures
   (6) JOGMEC’s potential contribution
   (7) Expectations to Asia CCUS network
(1) About JOGMEC

- Japan Oil, Gas and Metals National Corporation (JOGMEC) is a governmental agency that contributes to the stable supply of energy and mineral resources to Japan.

- JOGMEC promotes various projects that contribute to the realization of a carbon-neutral society.
(2) R&D on CCS

JOGMEC activities

- Geological surveys
- Marine resource development
- Environmental safety and mine pollution control
- Financial assistance
- Collection and provision of information
- Technological development and technical support
- Resource diplomacy and international cooperation

CCS

**Subsurface**
- Site screening and site selection
- Site characterization
- Modelling and simulation
- Monitoring and model calibration

**Surface**
- DDR membrane
- CO2 reformer

JOGMEC Technology Research Center
(3) Projects in progress

- Blue Ammonia Survey in Indonesia
- Ammonia value chain survey between Eastern Siberia and Japan
- Development of high CO2 gas fields in Malaysia, utilizing CCS technology
- Joint Study for CO2-EOR Pilot Test in Agano City, Niigata Prefecture, Japan

PAU Plant in Indonesia
A stable supply of energy is needed to support the lives of people and the economic growth of people in Asia. Even in 2040, fossil fuels will continue to account for the majority of demand.

CCUS is a vital technology to help simultaneously realize a stable energy supply and carbon neutrality.
(5) Challenges for CCS deployment in Asia

- Improving economic efficiency
- Establishing laws and regulation
- Improving CCS reliability
- Financing
- Certification system for environmental impact
- Capacity building

Conditions needed for private investment

Proactive policy formulation by governments
(6) JOGMEC’s potential contribution

Governments in Asia region

- Improving economic efficiency through R&D
- Verifying long-term stability and improve reliability
- Establishing evaluation methods and certification frameworks for CO2 reduction amount and carbon intensity
(7) Expectations for Asia CCUS Network

➢ Policy recommendations to governments and check and review of policy progress in each country.

➢ Grand design for CCS development in Asia – institutional harmonization

➢ Promotion of the Joint Crediting Mechanism (JCM) for CCS projects in the Asian region

➢ CCS capacity building – engineering and policy-making

➢ Sharing of good practices through the network and other relevant networks (i.e., OGCI)
Inquiry

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Thank you.