

Japan CCS Forum 2024

JOGMECにおけるCCS事業化に向けての取り組み

JOGMEC's Initiative toward CCS Business Development

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JOGMEC's mission and technical expertise



JOGMEC (Japan Organization for Metals and Energy Security)

Mission Securing stable and affordable supply of natural resources for Japan





CCS

Hydrogen, Ammonia

Wind Power

Area of Services

Financial Support

- Equity Finance
- Liability Guarantee
- Grant
- Subsidy, etc.

Technology Support

- Geological Survey
- Technology Development
- Marine Resources Development
- Environmental Safety, etc.

Intelligence Support

- Resource Diplomacy
- International Cooperation
- Information Analysis, etc.

JOGMEC's approach for realizing CCS value chain



[JOGMEC's activities]

JOGMEC, as the executing agency of Japan's energy policy led by METI

- > Solving issues related to the energy trilemma by providing
 - √ Financial support services
 - ✓ Technical support services
 - ✓ Intelligence support services
- > Providing services not only to Japanese companies but also to overseas partner organizations

[S+3E (Safety Plus 3 Es) policy]

- **♦** Energy Security
 - Stable supply and secure of resources
- **♦** Economic Efficiency
- By supporting partners
- Environment
 - Promoting environmentally friendly resource development
- > We are struggling to above goals while keeping **Safety** in mind.

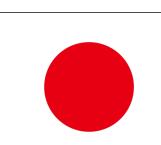








- **Intelligence Support**
- **Policy recommendation**





Energy Business Unit

Area of Activities:

LNG, E&P, CCS, Hydrogen & Fuel Ammonia





Support Programs



Programs request Application

JOGMEC's Services

Financial Support

Technology Support

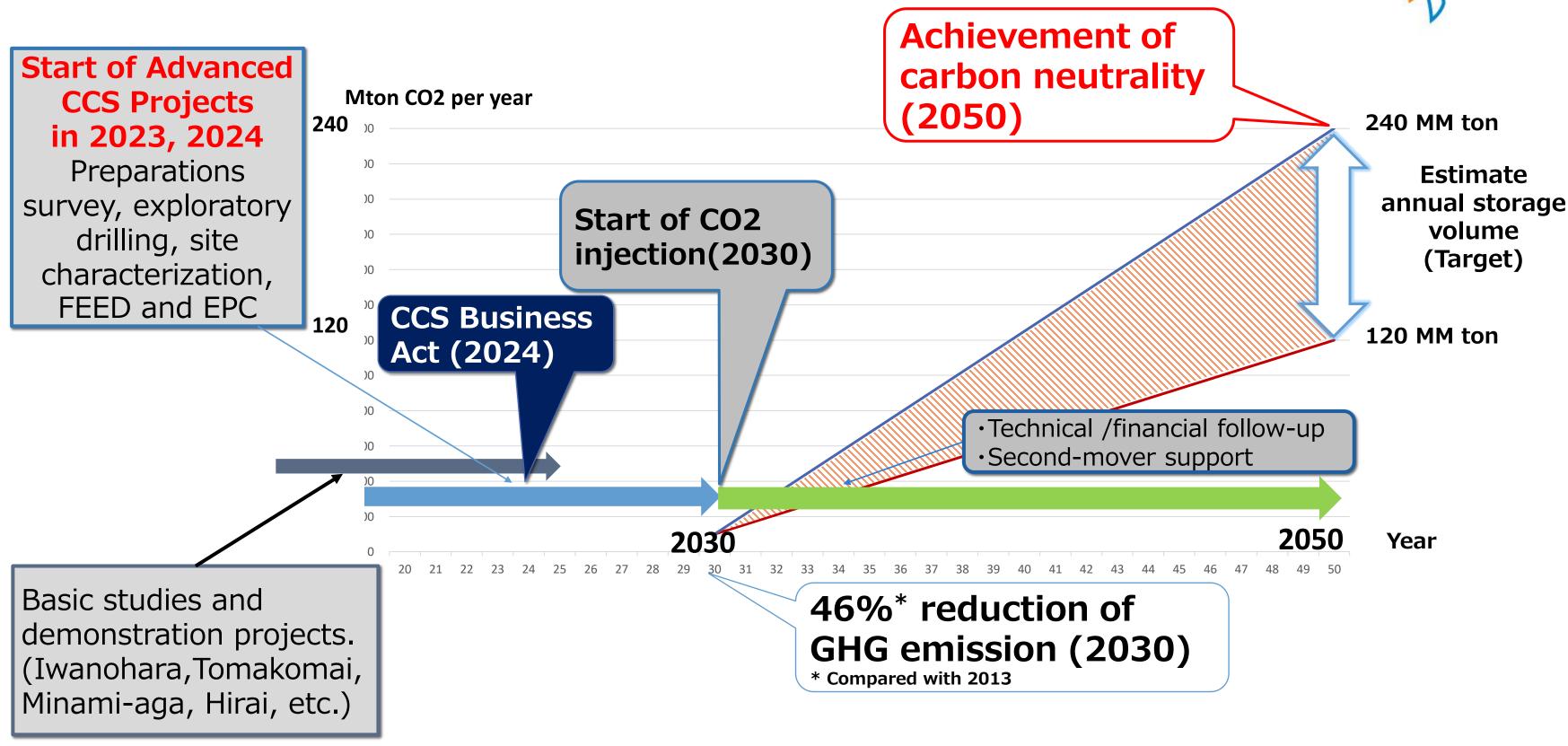
Intelligence Support



Japanese Private Sector

Partners

CCS for 2050 Carbon Neutrality in Japan



Based on METI: May 27, 2022 20220527 2.pdf (meti.go.jp)

OGMEC

JOGMEC's support for CCS value chain projects

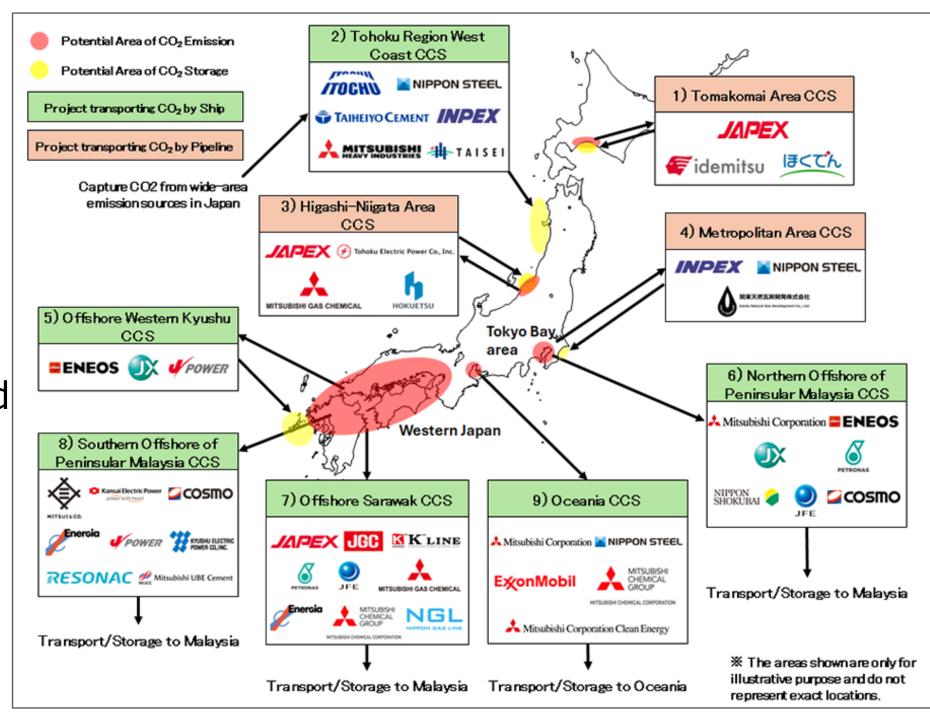
JOGMEC

"Japanese Advanced CCS Projects"

- New supporting scheme started in 2023.
- The goal is to inject 6-12 Mtpa of CO2 by 2030.
- JOGMEC selected 9 role model projects for 2024.
 - →9 projects store **20 Mtpa** of CO2 in total
- Support 100% of the cost for FS/Pre-study and exploratory drilling.

Contribute to Japan's Carbon Neutrality Goals

- Achieve net zero emissions by 2050
- Reduce emissions by 46% compared to 2013 by FY2030



Location of 9 Japanese Advanced CCS Projects and companies, The 9 projects plan to store approximately 20 million tons of CO2 per year

Discussions on LCO2 Ship Transportation in CCS Value Chain

[Background]

JOGMEC

- Ship transportation is adopted to 6 out of 9 Advanced CCS projects.
- Cost reduction in entire CCS value chain is necessary for CCS business implementation

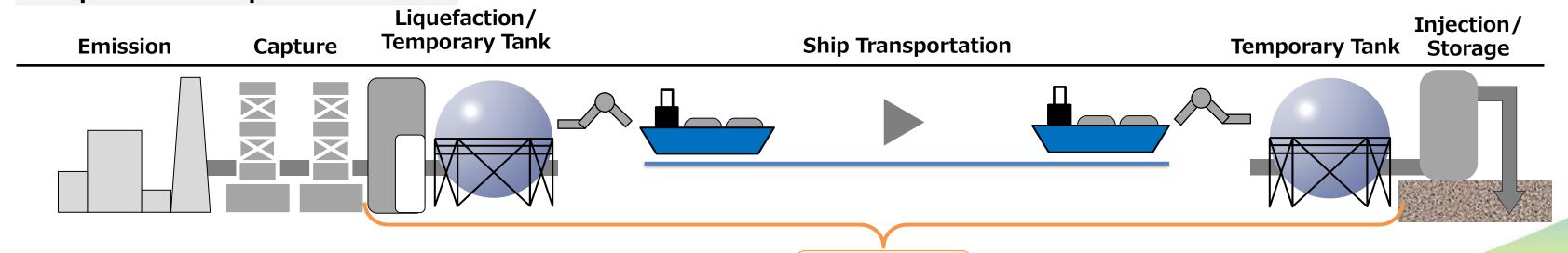
[Objectives]

- To establish economical and efficient supply chain for Advanced CCS projects
- To obtain common understanding various specifications for ship transportation and related facilities in receiving terminal

JOGMEC's role:

- ➤ Organizing discussion on various specifications for LCO2 ship transportation
- ➤To develop initial guidance for LCO2 ship transportation by the end of FY2024

Ship LCO2 transportation flow



JOGMEC's Activities on Cross-border CO2 Transportation in

Asia-Pacific



MOC on cross border CO2 transportation [Sep.2023]



(MALAYSIA)





MOC on CCS partnership (including cross border CO₂ transportation) [Aug.2024]





THE MINISTRY OF TRADE AND INDUSTRY OF THE REPUBLIC (SINGAPORE)

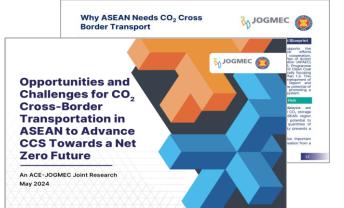




Collaboration with ACE (ASEAN Center for Energy)

Joint report on cross-border CO2 transportation

[May 2024]





https://www.jogmec.go.jp/english/news/release/news 10 00067.html

METI/JOGMEC/Asia CCUS Network's International Workshop on CO2 Crossborder Transport and Storage in the Asia-Pacific Region

[Feb.2024]

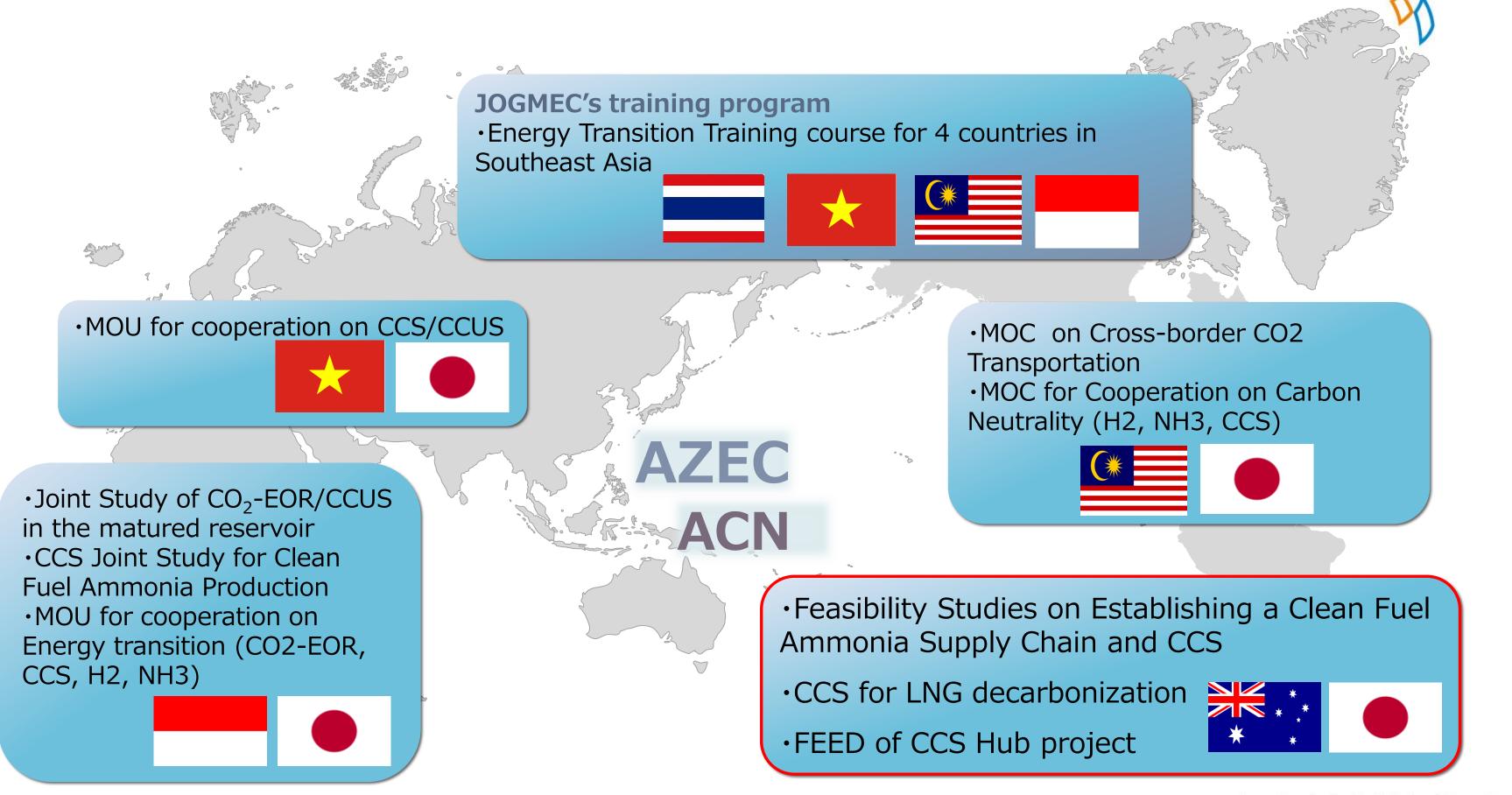


Workshop Handbook will be available within 2024!



https://www.jogmec.go.jp/english/news/release/news_08_00014.html

JOGMEC's Projects and Cooperation in Asia-Pacific region, JOGMEC





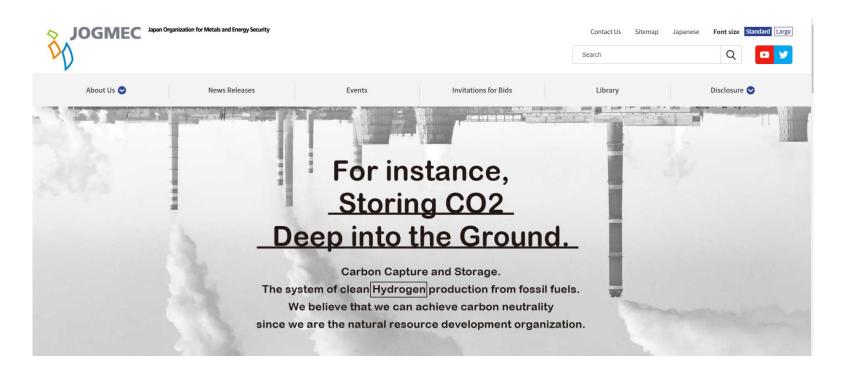
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