



Introduction to JOGMEC

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Japan Organization for Metals and Energy Security

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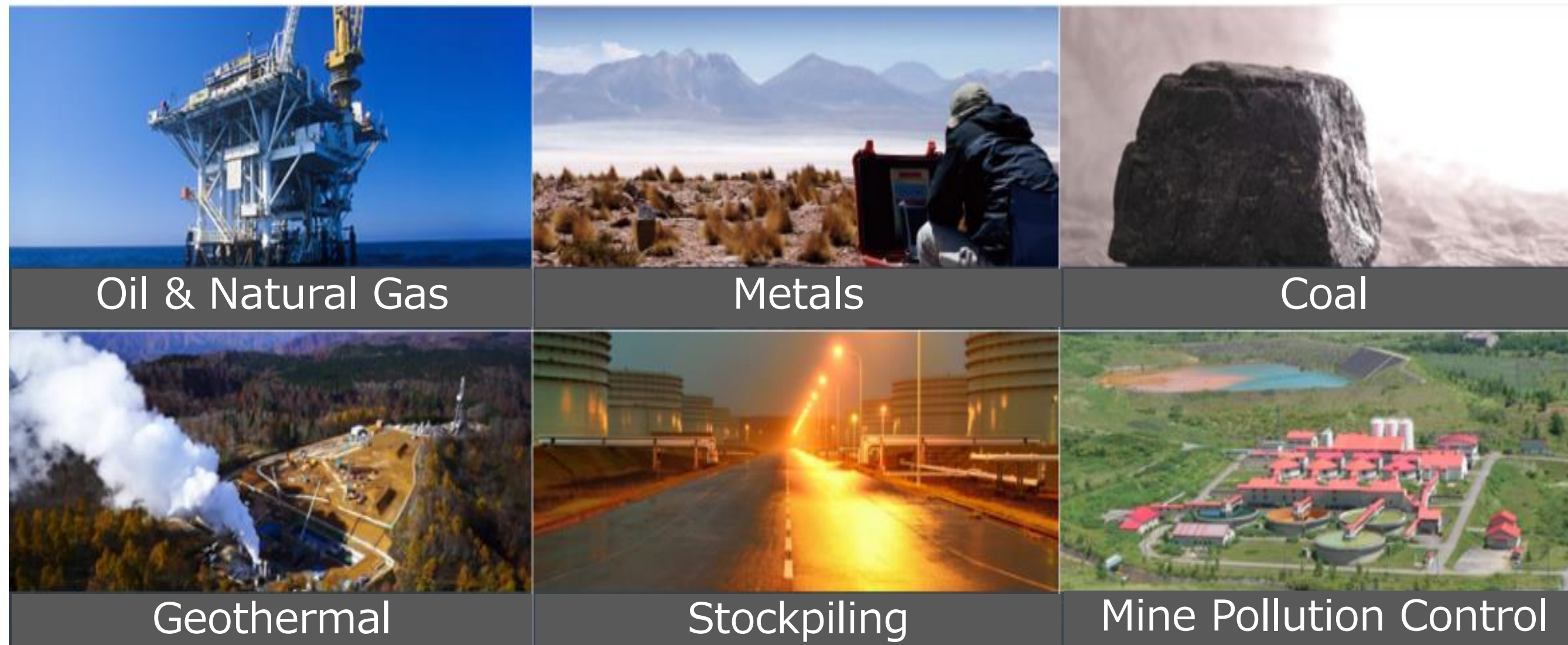
Hydrogen and CCS Project Department

Energy Business Unit

Introduction to JOGMEC

Japan Organization for Metals and Energy Security

Mission: Secure the **stable supply** of Natural Resources for Japan as agency of Japanese government (Ministry of Economy, Trade and Industries)

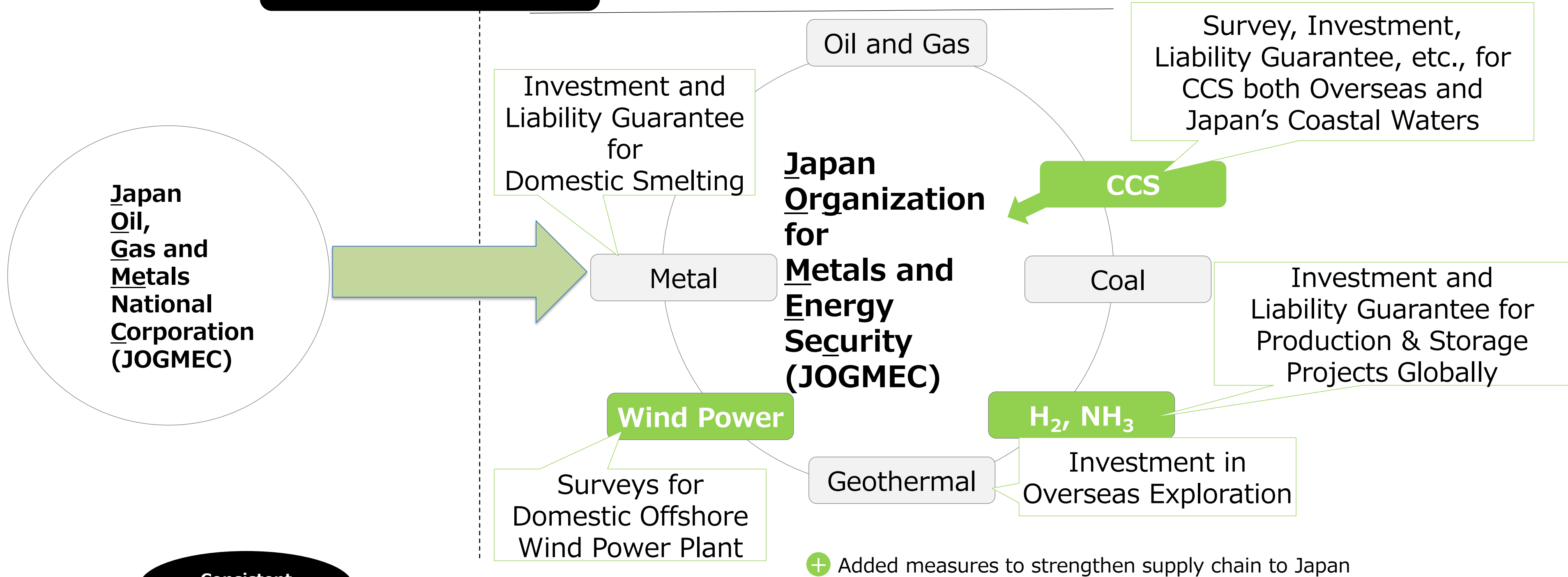


- Financial support: Support risk money with taking **equity capital and liability guarantee**.
- Technical support: Joint FS and technical study for challenging issue at the operation field/site.

New JOGMEC functions

Law Amendment
(Promulgated on May 20th)

Amendment Act

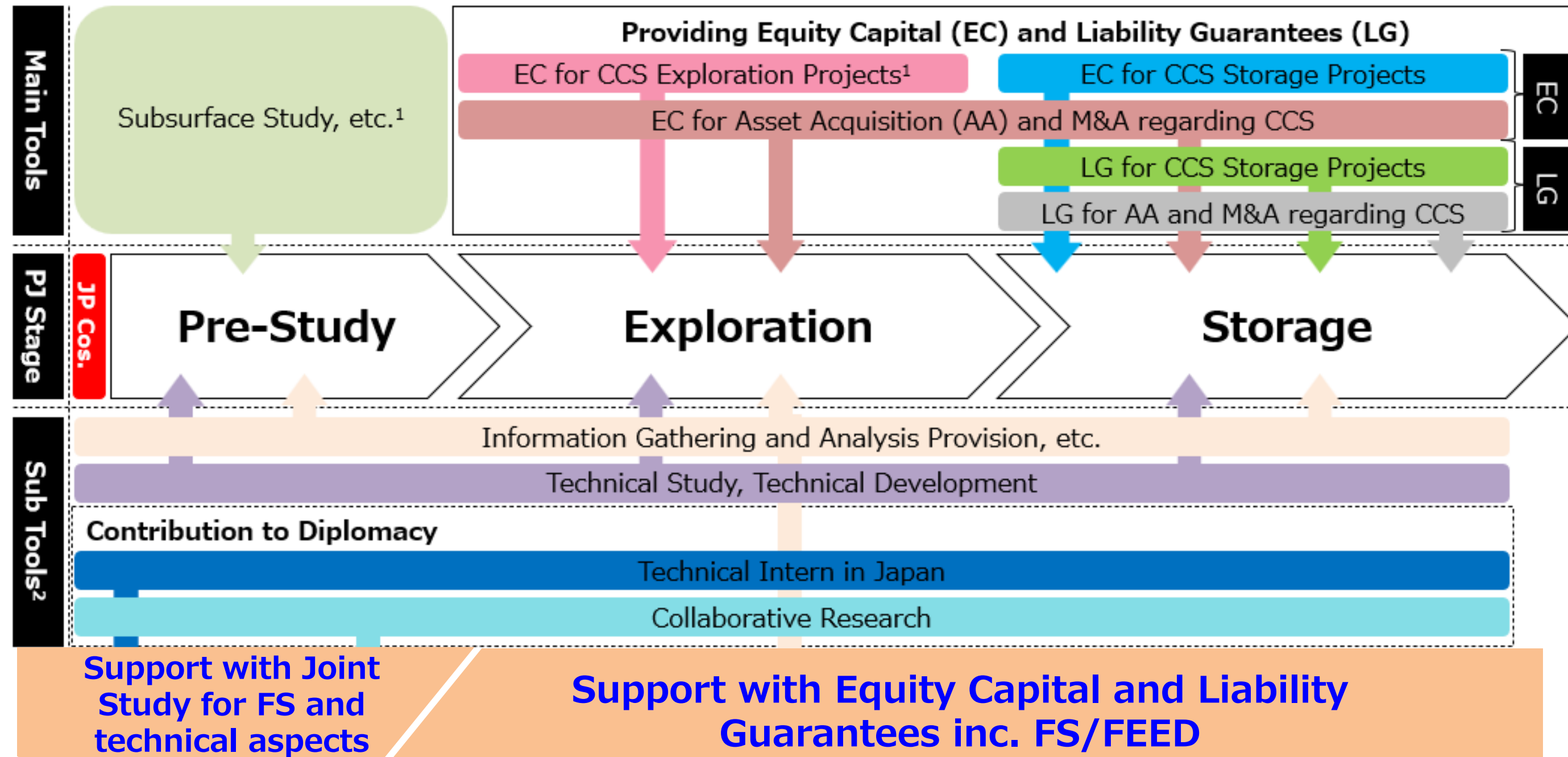


Consistent Mission

Secure a Stable and Affordable Supply of Energy and Metal Mineral Resources to Japan

JOGMEC's Business Tool for CCS

JOGMEC promotes projects of Japanese companies both overseas and around the coastal waters of Japan securing suitable places for and implementation of CCS by providing a wide range of assistance as below.



¹ Includes lending a vessel for seismic survey for CCS
² Ancillary business tools to each tool categorized as Main Tools

Feasibility Studies

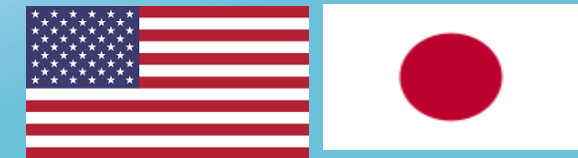
Joint Study to Verify GHG Emissions of Clean Ammonia Production Project



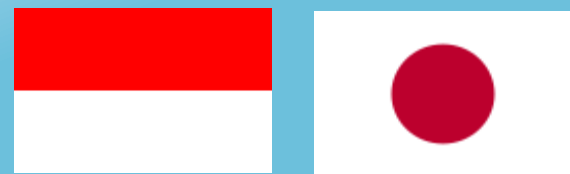
CO₂-EOR/CCUS Pilot Test Blue H₂ production & utilization



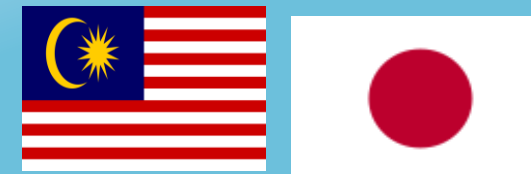
Several ammonia value chain projects



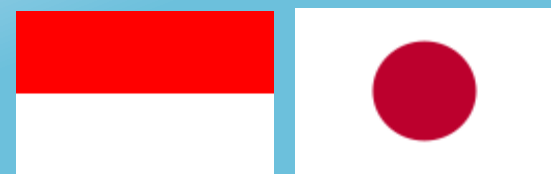
Joint Study of CO₂-EOR/CCUS in the matured reservoir



Joint Study on the Development of CCS at High CO₂ Gas Fields



CCS Joint Study for Clean Fuel Ammonia Production



Feasibility on Establishing a Clean Fuel Ammonia Supply Chain From Australia to Japan



Feasibility on CCS for Creation of a Supply Chain of Low Carbon Ammonia



CarbonNet (FEED for CCS Hub Network)



Advanced CCS Project

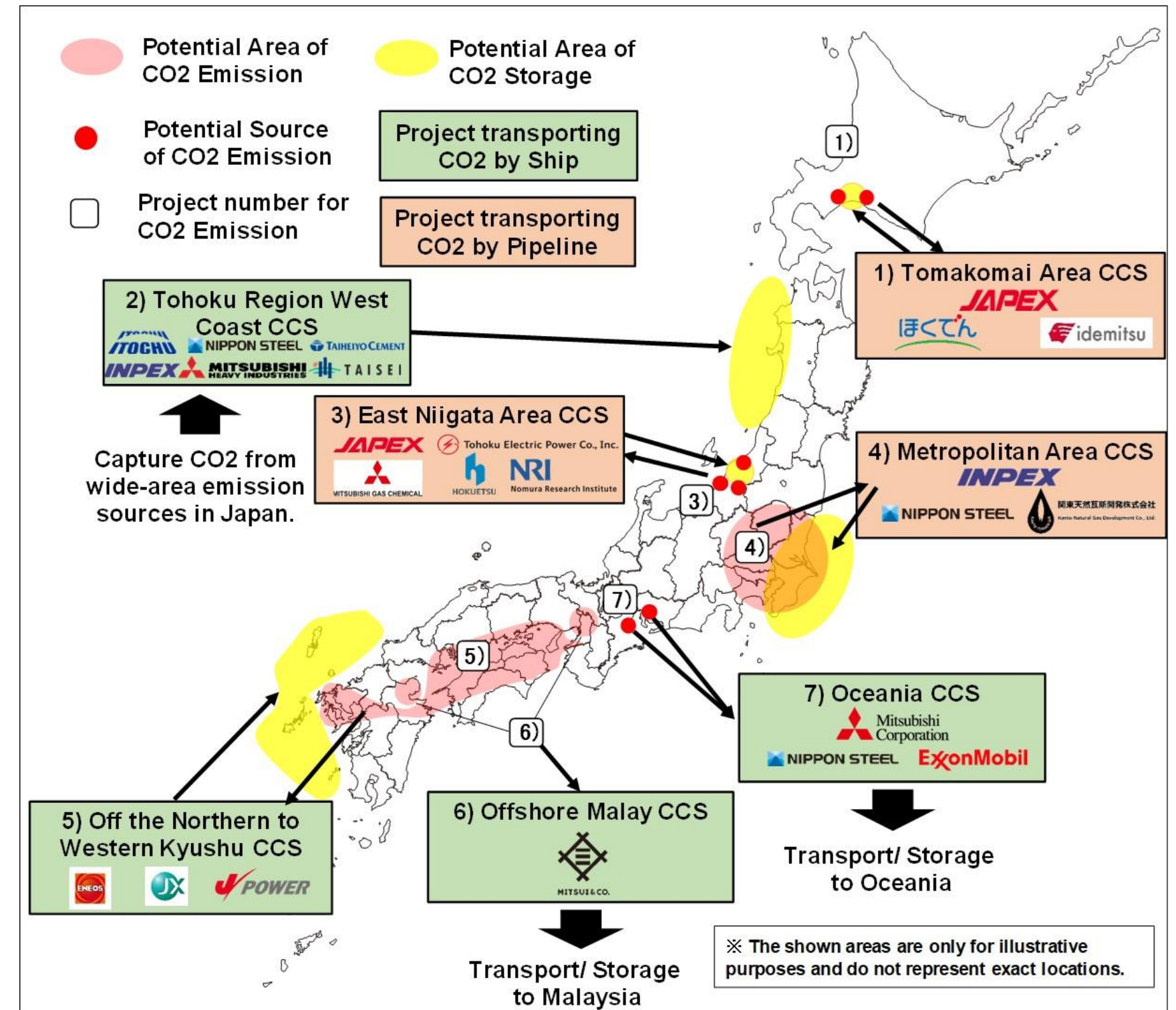
Requirements

- ◆ Starting CO2 injection before FY2030 with 0.5Mtpa or more.
- ◆ Including CO2 capture (multiple industries or decarbonized fuels plant), transportation (P/L or shipping) and storage (underground or undersea)

Selected 7 projects

- ◆ JOGMEC selected **7 role model projects**
 - 5 for domestic storage and
 - 2 for overseas storage
- ◆ CO2 captured from the industrial clusters and stored about 13 Mtpa of CO2 in the Japan, Asia or Oceania regions.
- ◆ JOGMEC provides support for the first time in Japan towards the initiation of CCS projects from CO2 capture to storage.

7 projects will store approximately 13 Mtpa of CO2 in total.



Location of 7 Japanese Advanced CCS Project and companies proposed each project.