

Moving towards Asia CCUS Network

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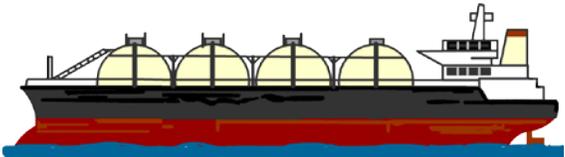
CCUS demonstration projects in Japan

Source: Osaki Coolgen



IGCC with CO2 capture and carbon recycling facility

Capture started from Dec.2019.



CO2 transport ship

Study started from 2020.
** This is a schematic illustration, which does not reflect the actual CO2 transport ship.*



Tomakomai CCS with Carbon Recycling

Source: Japan CCS



Source: Toshiba Energy Systems & Solutions

Biomass power plant with CO2 capture

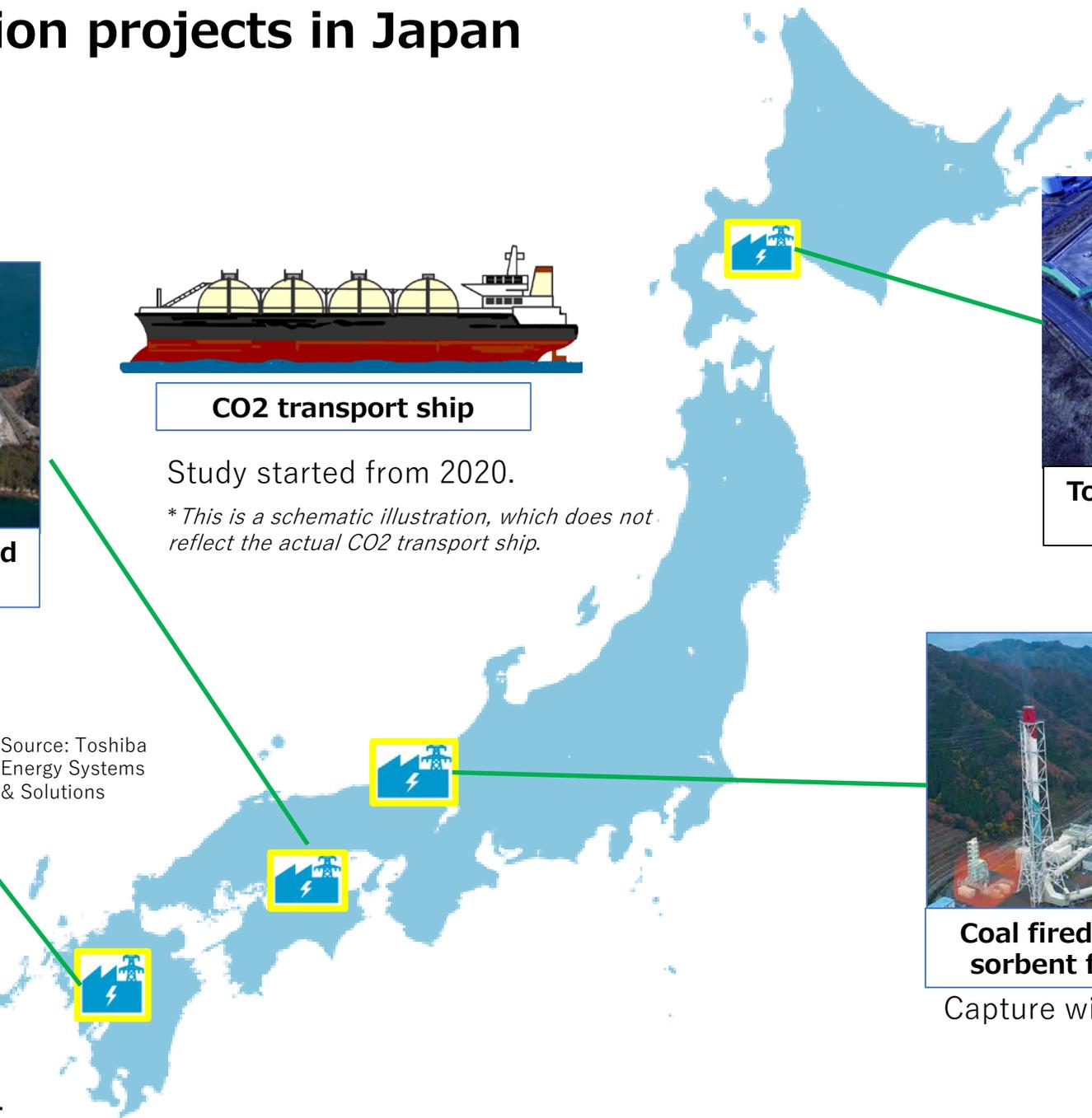
Capture will start from Oct 2020.



Coal fired plant with solid sorbent for CO2 capture

Source: Kansai Electronic Power

Capture will start 2023.



Japan's worldwide cooperation for CCUS development & deployment

EU:

- ✓ Joint Press Statement including CCUS at G20 Karuizawa



Canada:

- ✓ MOC including CCUS at G20 Karuizawa
- ✓ MOC between JCCS and International CCS Knowledge Centre (Saskatchewan)



UK:

- ✓ MoC between METI-BEIS including CCUS
- ✓ METI-BEIS CCUS Workshop



USA:

- ✓ MOC on the CCS collaboration
- ✓ Research cooperation on microbubbles and optical fibers at North Dakota
- ✓ Petra Nova CO2EOR project



Saudi Arabia :

- ✓ Saudi-Japan vision 2030 2.0
- ✓ FS for CO2 free-ammonia supply with CCUS



Australia:

- ✓ MOC including CCUS at G20 Karuizawa
- ✓ Hydrogen Energy Supply Chain Project



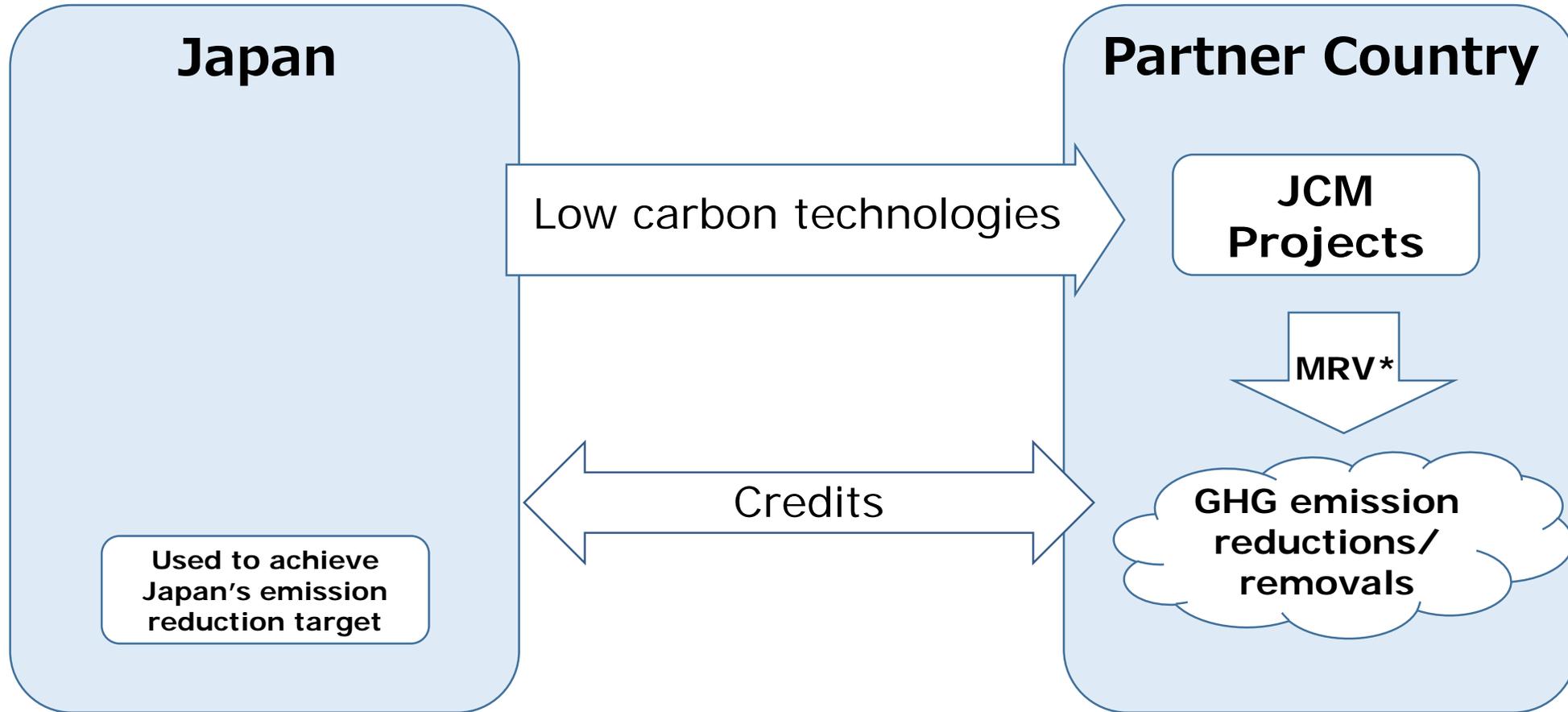
Indonesia :

- ✓ MOC including CCUS at G20 Karuizawa
- ✓ FS for applying JCM to CCUS



Multilateral Collaboration
(CEM, CSLF, IEA, IEAGHG, GCCSI...)

Application of Joint Crediting Mechanism (JCM) scheme to CCUS?



*measurement, reporting and verification

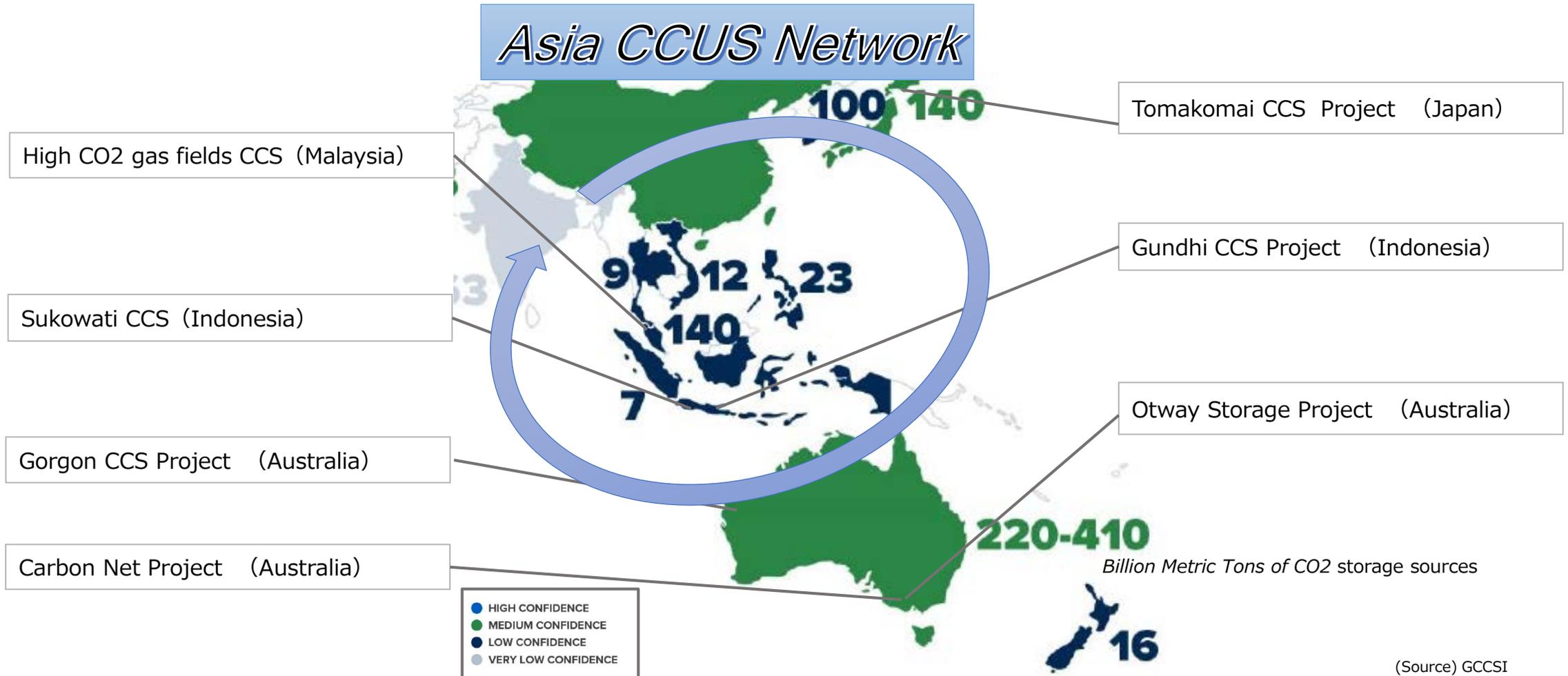
Feasibility Study of JCM on CCUS in Indonesia

- [Feasibility study on CCUS for JCM Scheme](#) has been implemented since 2019 by JANUS, J-POWER, JAPEX, etc.
- As a part of the feasibility studies, [Japan-Indonesia CCUS symposium](#) was held for enhancing the collaboration and knowledge sharing in February 2020.



Asia CCUS Network – Basic Concept

- For achieving decarbonization in Asia, it is necessary to promote CCUS cooperatively within the region, considering large storage potential of CO2.
- Japan, jointly with ERIA, will seek to establish CCUS Network as a venue for knowledge/experience sharing and research activities on CCUS.



Japan's Roadmap to "Beyond-Zero" Carbon

https://www.meti.go.jp/english/policy/energy_environment/global_warming/roadmap/index.html

