

NEWS RELEASE www.jogmec.go.jp

Japan Organization for Metals and Energy Security

Division in Charge: Global Coordination Division, Hydrogen and CCS Project

Department Tel.: +81-43-276-9220

PR in Charge: Public Relations Division

Tel.: +81-3-6758-8106 Fax: +81-3-6758-8008

JOGMEC announces the publication of the second version of “CI Guidelines” toward environmental value visualization of LNG, hydrogen, fuel ammonia, and synthetic fuels

Japan Organization for Metals and Energy Security (JOGMEC) has developed and published the “Recommended Guideline for Greenhouse Gas and Carbon Intensity Accounting frameworks for LNG/ Hydrogen/ Ammonia Projects (JOGMEC CI Guideline) Version 2.” JOGMEC, as a core organization in charge of energy security, will strengthen its support for LNG, hydrogen, ammonia, and CCS projects promoted by Japanese companies.

JOGMEC has been promoting technical support for LNG, hydrogen, ammonia, and carbon dioxide capture and storage (CCS) projects to contribute to a stable supply of energy resources and achieve carbon neutrality by 2050. As part of its efforts to improve the environment for the development of decarbonized fuels, “Recommended Working Guideline for Greenhouse Gas and Carbon Intensity Accounting frameworks for LNG/ Hydrogen/ Ammonia Projects (JOGMEC CI Guideline) Version 2” has been developed and is hereby published. It presents the approach of JOGMEC for calculating GHG emissions associated with LNG, hydrogen, ammonia, and synthetic fuel production, and for calculating carbon intensity (CI), which indicates GHG emissions per unit (product energy content or weight).

This guideline was developed based on JOGMEC’s concept, referring to existing international standards and formulated recommendation guidelines for GHG emission and CI calculations associated with LNG, hydrogen, ammonia, and synthetic fuel production, which are under discussion worldwide. This guideline is designed to help make the most appropriate calculations of CI and methane (CH₄) emissions, which are increasingly being requested internationally. The major revisions from the first edition are as follows:

- (1) Identification of main emission sources that accounted for the majority of GHG emissions at LNG and ammonia plants.
- (2) Addition of e-methane.
- (3) Addition of hydrogen by the electrolysis of water.

JOGMEC will make the most of its accumulated experience in resource development, as a core organization for CCS, and will strengthen its support for CCS projects promoted by Japanese companies.

■ JOGMEC CI Guideline (Version 2)

JOGMEC CI Guideline (Version 2) (PDF)

Introduction of JOGMEC CI Guideline (version 2) (PDF)

■ Publication of the JOGMEC CO₂-EOR Guidelines (Version 1)

JOGMEC also published the first version of the JOGMEC CO₂-EOR Guideline, a guideline for safe, long-term containment of CO₂ using CO₂-EOR.

JOGMEC announces the publication of the first version of “CO₂-EOR Guidelines” for implementing CO₂-EOR to contribute to climate change mitigation (June 23, 2023)

(URL)https://www.jogmec.go.jp/english/news/release/news_10_00038.html

■ Inquiry

Secretariat, Global Coordination Division, Hydrogen and CCS Department, Energy Business Unit

E-mail:guidelines@jogmec.go.jp

■ References

JOGMEC announces the publication of the first version of a recommended guideline for the implementation of carbon dioxide capture and storage projects. (May 30, 2022)

(URL)https://www.jogmec.go.jp/english/news/release/news_10_00004.html

Signing of agreement on joint study to verify GHG emissions of clean ammonia production project in UAE (April 18, 2023)

(URL)https://www.jogmec.go.jp/english/news/release/news_10_00033.html

Implementation of CO₂ Injection for CCUS in Indonesia (August 31, 2022)

(URL)https://www.jogmec.go.jp/english/news/release/news_10_00008.html

Clean Future Energy

(URL)<https://mirai.jogmec.go.jp/en/>