

# Japan Oil, Gas and Metals National Corporation (JOGMEC)



## Company Data

**URL:** <http://www.jogmec.go.jp>

**Address:** 1-2-2, Hamada, Mihama-ku, Chiba-city 261-0025, Japan

**Contact Person:** Technical Solution Project Group

**E-mail:** [tech\\_solution@jogmec.go.jp](mailto:tech_solution@jogmec.go.jp) **Tel:** +81-43-276-9254

JOGMEC's Technical Solutions Project is a new initiative that matches innovative, cutting-edge Japanese technologies with challenges faced by oil and gas producing countries. JOGMEC promotes technology developments by Japanese companies with advanced technologies to meet the technological needs of oil and gas producing countries.

## Products & Technologies / Competitive Advantage & Opportunities for Partners

1. NORMs visualization technology - NORMs (Naturally Occurring Radioactive Materials) are the most fatal pollutants for oil & gas field workers and the environment, and are difficult to detect. JOGMEC is carrying out R&D to apply to a world-class gamma-ray camera, which has been developed for high-sensitivity observations of gamma-ray astronomy by JAXA (Japan Aerospace Exploration Agency) and MHI (Mitsubishi Heavy Industries), to help visualize NORMs.
2. FMS - FMS (Flocculation and Magnetic-Separation produced water treatment system) is a compact system for water treatment developed by Hitachi, Ltd. This system is as compact as can be rigged on offshore platforms, where only a small footprint is available. The performance of FMS enables us to produce levels of the permissible oil and suspended solids that meet discharge criteria for coastal areas.
3. CO<sub>2</sub> Removal System using a novel Zeolite Membrane - MSM-1 Zeolite Membrane, developed by Chiyoda Corporation and Mitsubishi Chemical Corporation has the world's top-ranking in performance in the area of separating CO<sub>2</sub> and methane. JOGMEC promotes low-cost, compact systems for the development of oil and gas fields containing high concentrations of CO<sub>2</sub>. The separated CO<sub>2</sub> will be utilized for the oil and gas recovery process, such as CO<sub>2</sub>-EOR or CO<sub>2</sub>-fracturing.
4. JAPAN-GTL - GTL (Gas to Liquids) technology produces petroleum oil products from natural gas via chemical reactions. The JAPAN-GTL process was developed by 6 leading Japanese private-sector companies, in association with JOGMEC. A key feature of the JAPAN-GTL process is that it uses CO<sub>2</sub>-containing natural gas as a feedstock and is capable of converting CO<sub>2</sub> into energy. This technology is expected to facilitate the development of gas fields that remain untapped worldwide.

