



Natural Gas Development and Production Project (Canada)
Montney/Shale Gas Development
Shale Gas Development and Production in Canada

MC, in partnership with Ovintiv, is actively engaged in shale gas development at a premier unconventional resource play in Montney, an area well recognized for its massive reserves. MC will export the gas produced at Montney to markets in East Asia, including Japan, through the LNG Canada project in which MC also participates, in addition to marketing the gas locally in North America.

LNG Canada
 (Canada)



Decarbonization-related Venture Investments (UK, USA)
**AP Ventures/
 Breakthrough Energy Catalyst**
Investing in One of the World's Leading Venture Capital Firms

Through AP Ventures, a UK-based venture capital firm focusing on hydrogen, we are identifying direct investment opportunities in startups that have promising technologies for realizing a decarbonized society. So far, we've invested in Hydrogenious (a German company with hydrogen storage and transportation technology), hystar (a Norwegian company with water electrolysis technology), and Amogy (a US company with ammonia cracking technology). We are also working on projects through Breakthrough Energy Catalyst, a US company founded by Bill Gates that is dedicated to accelerating social adaptations of net-zero technologies, and have committed to investing in projects such as Infinium's Roadrunner project in the US (an e-SAF production project). Such investments will play a pivotal role as we strive to utilize new technologies to further create business opportunities going forward.



CIMA ENERGY, LP.
 Gas Marketing (USA)

LNG Liquefaction and Marketing Business (USA)
**Cameron LNG/
 e-methane (Synthetic Methane) Development Project**
US-based Natural Gas Liquefaction and Export/e-methane Development Project Utilizing the Cameron LNG Terminal

Cameron LNG is a project where natural gas produced in the US is liquefied and exported. The project, which has a capacity to commercially produce 12 million tons of LNG per annum, a third of which is handled by MC, started commercial operations in August 2019. In addition, in order to decarbonize heat demand, MC aims to introduce "e-methane (synthetic methane)"* into the global energy mix by utilizing Cameron LNG's existing infrastructure and is striving to realize export into Japan by 2030.

*Synthetic methane produced from raw materials such as hydrogen and CO₂.



Ammonia Manufacturing and Marketing Business (USA, Japan, Indonesia, etc.)

Clean Ammonia Project

Clean Ammonia Social Implementation Project

As one approach to achieving a carbon-neutral society, we are aiming for the social implementation of using ammonia as fuel. Ammonia is attracting attention as a next-generation fuel source that does not emit CO₂ when burned. Together with our partners, we are developing projects around the world to construct large-scale and stable clean ammonia supply chains.

■ **Garraf** Crude Oil Production (Iraq)
 ■ **Basrah Gas Company**
 Refining & Sale of Natural Gas (Iraq)

■ **Qalhat LNG** (Oman)
 ■ **Oman LNG**
 (Oman)

■ **Malaysia LNG**
 (Malaysia)
 ■ **Brunei LNG**
 (Brunei)
 ■ **Diamond Gas International**
 LNG Marketing (Singapore)

■ **Browse Development** (Australia)
 ■ **North West Shelf (NWS)** (Australia)
 ■ **Wheatstone LNG** (Australia)

▲ Projects under development

■ Projects under operation



Environmental Energy Group

The Environmental Energy Group's mission is to contribute to the realization of a carbon-neutral society by promoting the energy transition while simultaneously ensuring stable supplies of energy.

For more than half a century, MC has been contributing to the stable supply of energy through our natural-gas-, LNG-, petroleum-, and LPG-related businesses, together with numerous customers and partners.

Utilizing our business development and marketing capabilities, in addition to the robust networks and relationships we have developed in the course of our business operations, we will deliver energy solutions optimized to meet the requirements of each customer through the timely development and supply of energy products.

- Next-Generation Energy Div.**
 - New Power Generation Fuels Business Dept.
 - Biofuel & E-fuel Business Dept.
 - Hydrogen Infrastructure Development Dept.
 - Hydrogen Business Development Dept.
 - Carbon Management Dept.Clean ammonia, SAF, hydrogen, low carbon methanol, low carbon ethanol, next generation-energy related infrastructure, carbon credits, CCUS, other decarbonization products and technologies
- Petroleum Solutions Div.**
 - Refinery Business Dept.
 - LPG & Petroleum Feedstock Business Dept.Crude oil, gasoline, kerosene, diesel, LPG, naphtha, other petroleum products, wood pellets
- LNG Asia-Pacific Div.**
 - Brunei Business Dept.
 - Malaysia Business Dept.
 - Indonesia Business Dept.
 - Australia Business Dept.
 - Russia Business Dept.
 - Delivery Operations Management Dept.Natural gas, liquefied natural gas (LNG)
- LNG Americas & New Ventures Div.**
 - Business Development Dept.
 - Global Marketing Dept.Natural gas, liquefied natural gas (LNG)

Marketing of Petroleum Products (Japan) **Mitsubishi Corporation Energy Co., Ltd.** Providing a Stable Supply of Petroleum Products



Mitsubishi Corporation Energy (MCE) was established on October 1, 2015, with the objective of merging the management resources for Japan-based petroleum product sales. While providing a stable supply of petroleum products such as gasoline, kerosene, gas oil, fuel oil and asphalt, MCE is also promoting new DX businesses utilizing its retail networks, including e-commerce businesses through its subsidiary, Car Frontier.

LPG Import and Marketing Business (Japan) **Astomos Energy Corporation** One of the World's Largest LPG Players



MC Group company Mitsubishi Liquefied Petroleum Gas Co. and Idemitsu Kosan Group company Idemitsu Gas and Life Co., Ltd. came together to form Astomos Energy Corporation in 2006. Astomos is among the world's largest enterprises specializing in LPG, and handles approximately 25% of Japan's LPG demand. The company is also engaged in power retail and the promotion of residential fuel cells and high-efficiency water boilers.

Hydrogen Transportation and Marketing Business (Singapore, Europe, Japan) **Hydrogen Supply Chain Business** Developing an International Hydrogen Supply Chain Using Methylcyclohexane (MCH)



Produced from toluene and hydrogen, MCH is one of the key technologies that makes the safe and efficient long-distance transport and storage of hydrogen possible. MC is accelerating technical and commercial studies to secure a stable supply of hydrogen to Singapore, Europe, Japan and other countries where demand for the resource is expected to increase in the near future.

LNG Liquefaction and Marketing Business (Indonesia)

Donggi-Senoro LNG First All-Asia LNG Project



The Donggi-Senoro (DSLNG) Project is the world's first LNG project to be undertaken exclusively by Asian companies, and without the involvement of major oil and gas companies. Companies from Japan, Indonesia and South Korea are taking part in the project. As the largest shareholder, MC assumes the leading role in this project, from which production and sales of LNG and associated condensate have been underway since 2015.

■ Sakhalin-2 (Russia)

■ Tangguh LNG (Indonesia)