Creating value to share with society



March 29, 2021 MITSUBISHI GAS CHEMICAL COMPANY, INC.

MGC Sets Long-Term Greenhouse Gas Emission Reduction Targets

Mitsubishi Gas Chemical Company, Inc. (MGC; Head Office: Chiyoda-ku, Tokyo; President: Masashi Fujii) has set the following long-term greenhouse gas (GHG) emission reduction targets¹ in the aim of achieving carbon neutrality by 2050.

2023 target: 28% reduction from FY13 baseline 2030 target: 36% reduction from FY13 baseline 2050 target: carbon neutrality

Last year, MGC set CSR priorities through a materiality assessment process, guided by its Group Vision of "Creating value to share with society" (<u>https://www.mgc.co.jp/eng/csr/materiality.html</u>). Several of the priorities address climate change. One is to solve energy challenges and mitigate climate change. Another is to proactively respond to environmental problems. MGC is committed to climate change mitigation as a key management priority.

MGC has formulated a GHG reduction roadmap toward its ultimate goal of carbon neutrality by 2050 (Figure 1). In FY13, the roadmap's base year, MGC's GHG emissions totaled 1,110kt of CO₂ equivalent. By FY19, MGC had reduced its GHG emissions by a cumulative 23% by reconfiguring its business portfolio and improving its energy efficiency. While continuing to work on these initiatives, MGC will forge ahead with concrete steps to reduce CO₂ emissions, including migration to transitional/renewable energy sources and deployment of carbon-free energy systems and CCUS² in pursuit of a minimum 36% reduction in GHG emissions by 2030 and carbon neutrality by 2050. In the process, MGC will capitalize on its unique strengths in energy, methanol and ammonia businesses, leverage its R&D capabilities and foster cross-organizational collaboration as outlined in Figure 1.

MGC's Roadmap toward its Ultimate Goal of Carbon Neutrality by 2050



Figure1: MGC's Roadmap toward its Ultimate Goal of Carbon Neutrality by 2050

Additionally, MGC plans to supply society with carbon-neutral and other environmentally constructive products manufactured in carbon-neutral plants equipped with green energy systems in accord with its vision of a carbon-neutral world by 2050 (Figure 2). By doing so, MGC will create societally beneficial value in the form of climate change mitigation on a global scale.



MGC's Vision of Carbon-Neutral World Circa 2050

Carbon-neutral energy systems, CO2 usage

④ Geothermal power plant

⑤ Production of, e.g., polycarbonate feedstock from CO₂ (CCUS)

6 Specialty amines (DAC adsorbents)

① Methanol energy system

2 Ammonia energy system

③ LNG-fired power plant + CCS

Products conducive to carbon neutrality

⑦ BT materials, electronic chemicals (energy control systems) ⑧ Solid-state batteries (EVs), fuel cells (FCVs), polycarbonates/polyacetals (lighter-weight auto bodies), optical materials (better autonomous-driving sensors)

Figure2: MGC's Vision of Carbon-Neutral World Circa 2050

- 1. The long-term emission reduction targets apply to MGC's Scope 1 and 2 emissions on a nonconsolidated basis. Scope 1 emissions are GHGs emitted directly by MGC. Scope 2 emissions are GHGs emitted indirectly through use of externally sourced energy (mainly electric power). MGC quantifies GHG emissions in compliance with the ISO 14064 international standard.
- 2. CCUS: CO₂ capture, utilization and storage; involves technologies to both capture/store CO₂ and use stored CO₂ as, e.g., a chemical feedstock.

END

INQUIRIES

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