

Green Innovation Report

Mitsubishi Gas Chemical Company, Inc. - 2024

ISIN: JP3896800004, **Ticker:** 4182, **Country:** JP, **Sector:** Diversified Chemicals

This report evaluates the green innovation activities of the company over the past decade, based on inventions published in green technology areas defined by the [IPC Green Inventory](#). This inventory, established by the World Intellectual Property Organization, identifies technologies aligned with the United Nations' definition of Environmentally Sound Technologies. These innovations contribute to mitigating humanity's impact on climate change in support of the Sustainable Development Goals.

Innovation Metrics

Invention Count (last 12 months)

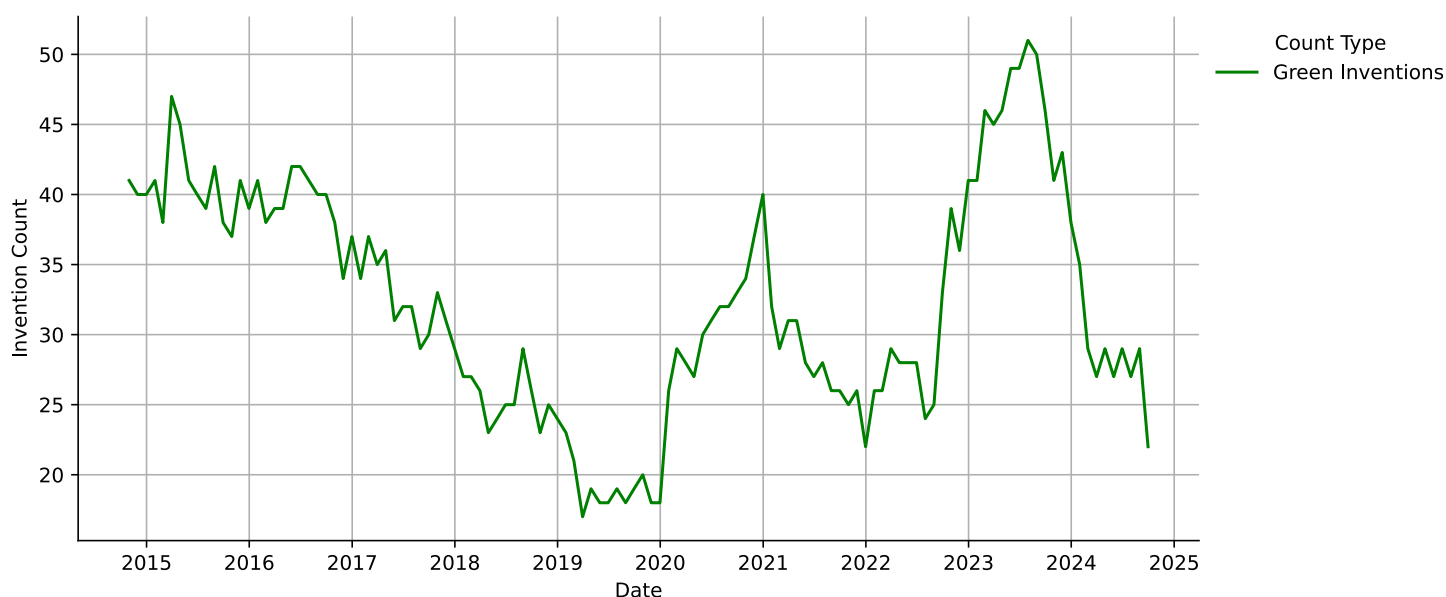
343 Inventions

Green Invention Count (last 12 months)

22 Green Inventions

Each invention reflects a substantial investment of R&D and legal resources. Consequently, green inventions provide a reliable and high-integrity metric for measuring a company's innovation efforts in green technologies and sustainability.

Rolling 1-Year Invention Count

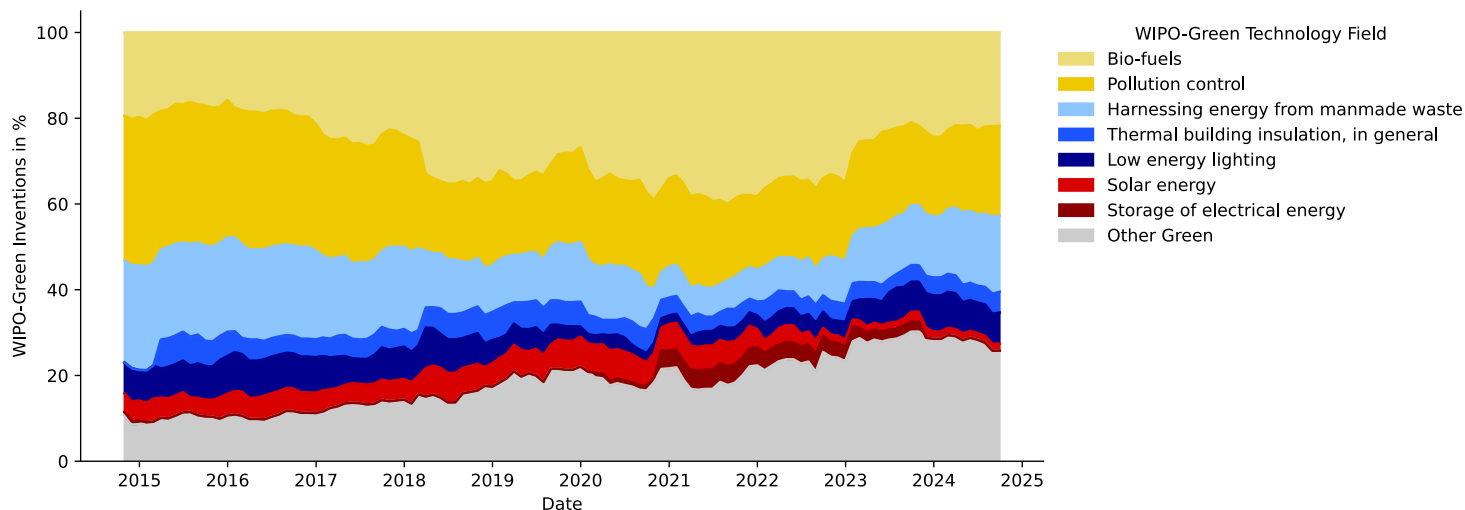


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

Green Technology Footprint

The graph below showcases the temporal distribution of the company's green innovation activity across technology fields listed in the IPC Green Inventory. This distribution highlights the green technology footprint and its evolution as part of the company's innovation strategy.

Rolling 3-Year WIPO-Green Footprint



The table below provides a quantitative analysis of the growth and significance of the company's key green technology fields. For each field, the most frequently appearing keywords in recent inventions offer valuable insights into the company's green innovation activities.

WIPO-Green Technology Field	Absolute Growth (3y)	Percentage of Green Inventions (3y)	Keywords (3y)
Bio-fuels	27	21.8%	thermoplastic resin, resin sheet, resin composition, resist auxiliary film, pattern formation
Pollution control	26	21.0%	carbon dioxide, oxygen scavenger, deoxygenation agent, carbon dioxide absorbent, oxygen scavenger package
Harnessing energy from manmade waste	22	17.7%	thermoplastic resin, microbial carrier, hydrothermal treatment, food waste treatment
Low energy lighting	9	7.3%	resin composition, resin sheet, metal foil clad, foil clad laminate, wavelength conversion member
Thermal building insulation, in general	6	4.8%	vertical slit, fire resistant, vertical slit material, floor structure, fire resistant insulating
Solar energy	2	1.6%	semiconductor intermediate, photoelectric conversion element, cyanine compound, copper surface

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