

# Green Innovation Report

## Mitsubishi Chemical Group Corporation - 2024

**ISIN:** JP3897700005, **Ticker:** 4188, **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)

532 Inventions

### Green Invention Count (last 12 months)

78 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

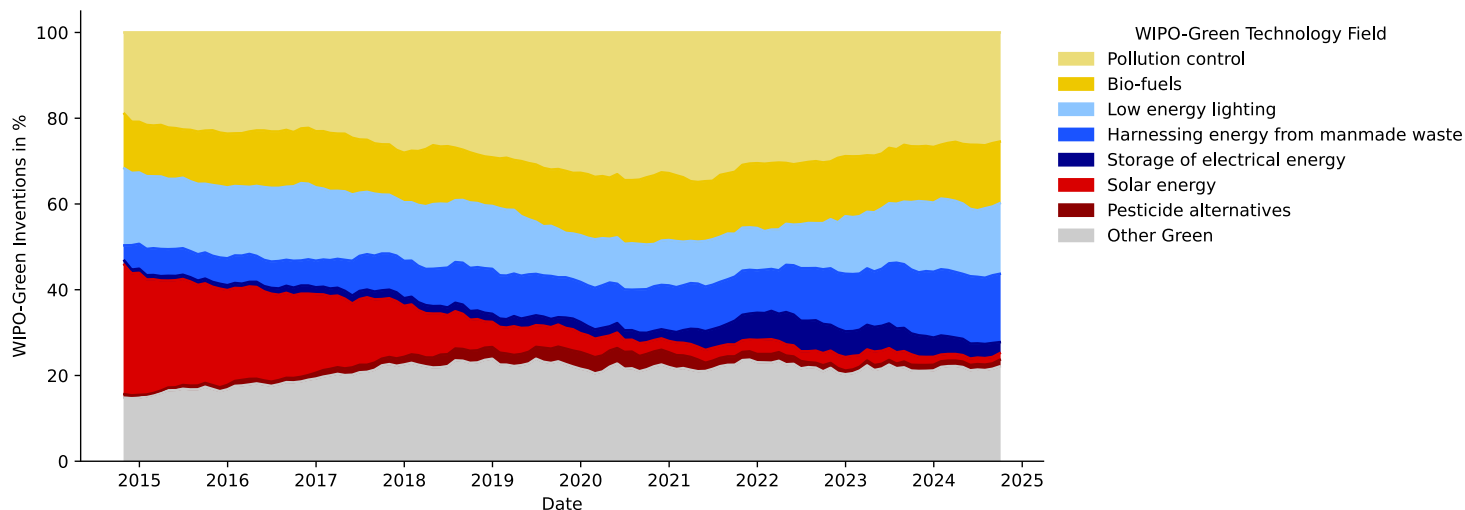


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

## 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)
Pollution control	99	25.4%	water treatment, hollow fiber membrane, gas separation, wastewater treatment, carbon dioxide
Low energy lighting	64	16.5%	organic electroluminescent element, image display, quantum dot, organic el display, photosensitive resin composition
Harnessing energy from manmade waste	62	15.9%	pressure fluctuation adsorption, exhaust gas treatment, gas separation recovery, gas purifier, biocarbon pellet
Bio-fuels	56	14.4%	methyl methacrylate, polymerizable composition, low olefin, methyl methacrylate polymer, carboxylic acid
Storage of electrical energy	10	2.6%	power storage, nonaqueous electrolyte solution, aqueous electrolyte, silicon/carbon composite electrode, fibrous silicon/carbon composite
Pesticide alternatives	6	1.5%	pr1 gene, resin film, protective panel, mapk gene, insect pest
Solar energy	6	1.5%	photoelectric conversion element, organic semiconductor, power generation, thin film, radiation detection

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