

Green Innovation Report

Shin-Etsu Chemical Co., Ltd. - 2024

ISIN: JP3371200001, **Ticker:** 4063, **Country:** JP, **Sector:** Specialty 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)

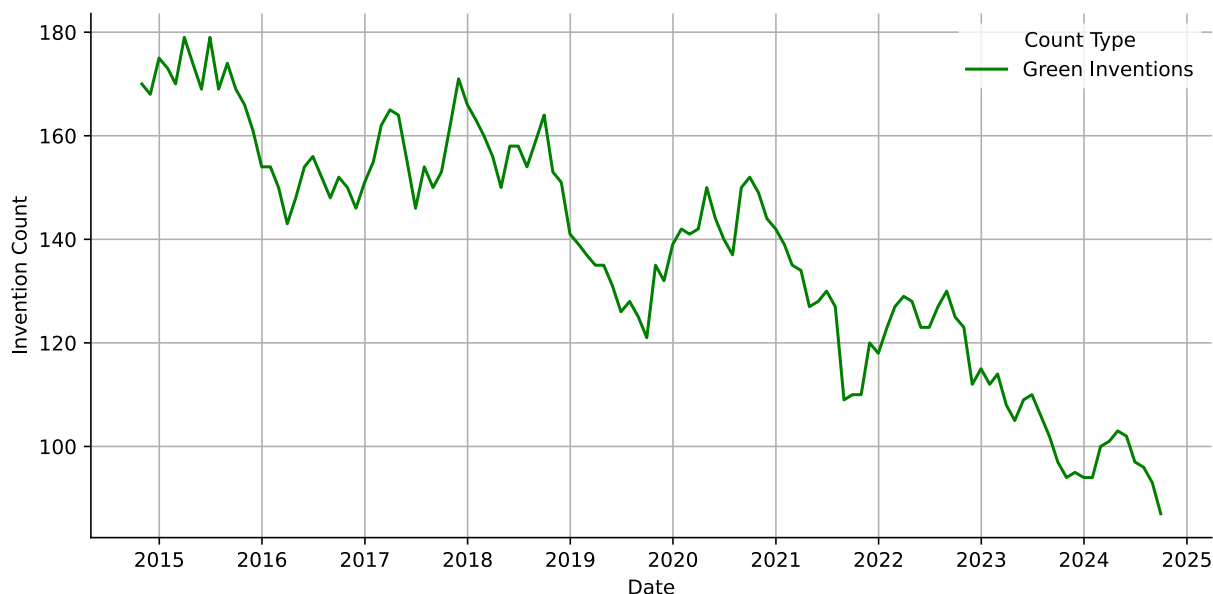
664 Inventions

Green Invention Count (last 12 months)

87 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

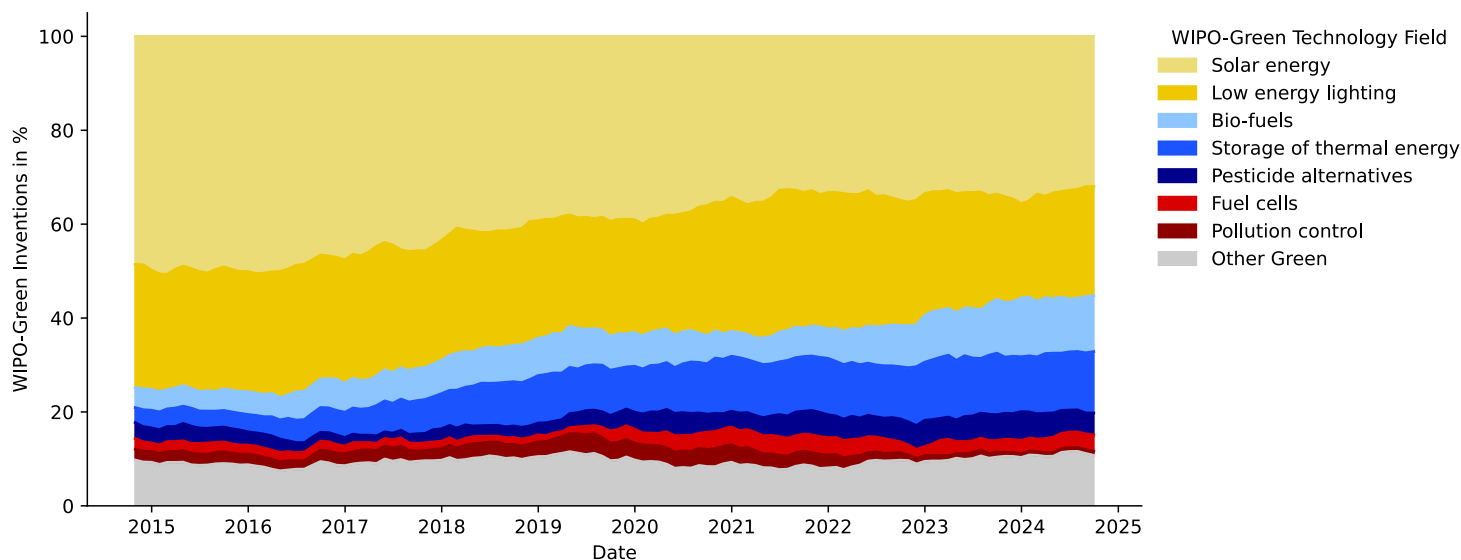


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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)
Solar energy	110	32.0%	silicon single crystal, epitaxial wafer, single crystal, nitride semiconductor substrate, single crystal substrate
Low energy lighting	80	23.3%	electronic component, ultraviolet light, optical element, semiconductor element, quantum dot
Storage of thermal energy	45	13.1%	conductive silicone composition, heat conductive silicone, cured product, curable silicone composition, conductive addition curable
Bio-fuels	41	11.9%	resist composition, patterning process, pattern forming, onium salt, conductive wiring
Pesticide alternatives	16	4.7%	organosilicon compound, release pheromone preparation, polymer rod, pheromone substance, insect pest
Fuel cells	12	3.5%	fuel cell separator, fuel battery, solid electrolyte, silicone rubber, multilayer separator
Pollution control	3	0.9%	exhaust gas treatment, pellicle frame, liquid crystal display, exposure original plate, crystal display plate

Disclaimer: This report was generated automatically. We do not assume any responsibility or liability for the use or interpretation of its content. Source: [Quant IP GmbH](#)