

Green Innovation Report

NGK Insulators, Ltd. - 2024

ISIN: JP3695200000, **Ticker:** 5333, **Country:** JP, **Sector:** Industrial Machinery & Supplies & Components

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)

328 Inventions

Green Invention Count (last 12 months)

110 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

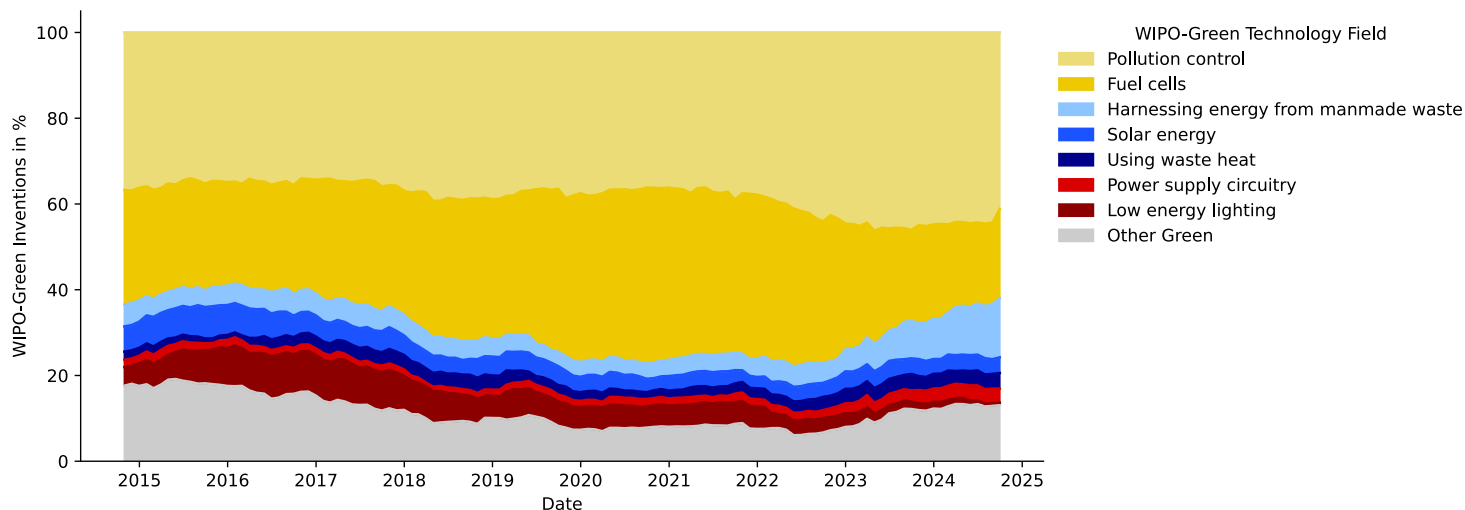


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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	214	41.2%	honeycomb structure, honeycomb filter, exhaust gas treatment, separation membrane composite, cylindrical member
Fuel cells	108	20.8%	electrochemical cell, zinc secondary battery, electrolyte membrane, compound separator, secondary battery
Harnessing energy from manmade waste	72	13.8%	gas recovery, gas adsorption/desorption, gas absorption/desorption, acid gas adsorption, zinc secondary battery
Solar energy	19	3.7%	heat treatment furnace, dielectric drying, ceramic structure, wind direction/wind speed, treatment furnace
Using waste heat	19	3.7%	heat exchanger, heat exchange member, heat recovery member, heat recovery control, heat conductive member
Power supply circuitry	17	3.3%	power supply, demand management, voltage regulation, energy management, voltage management
Low energy lighting	3	0.6%	semiconductor substrate, functional element, epitaxial crystal growth

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