

Green Innovation Report

JFE Holdings, Inc. - 2024

ISIN: JP3386030005, **Ticker:** 5411, **Country:** JP, **Sector:** Steel

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)

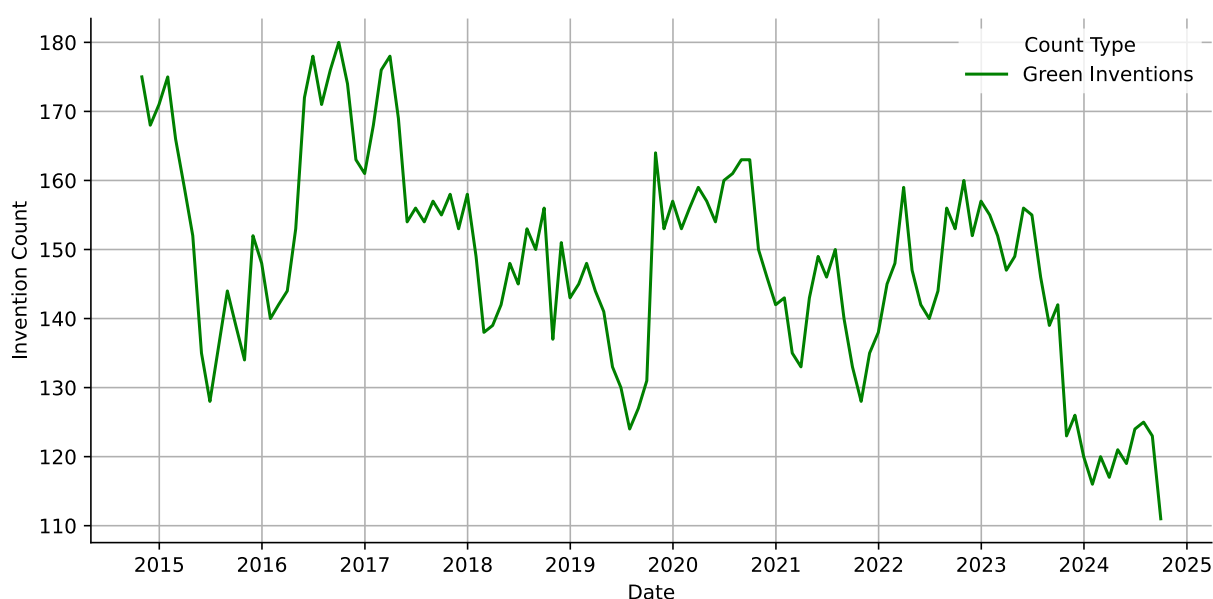
1116 Inventions

Green Invention Count (last 12 months)

111 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.

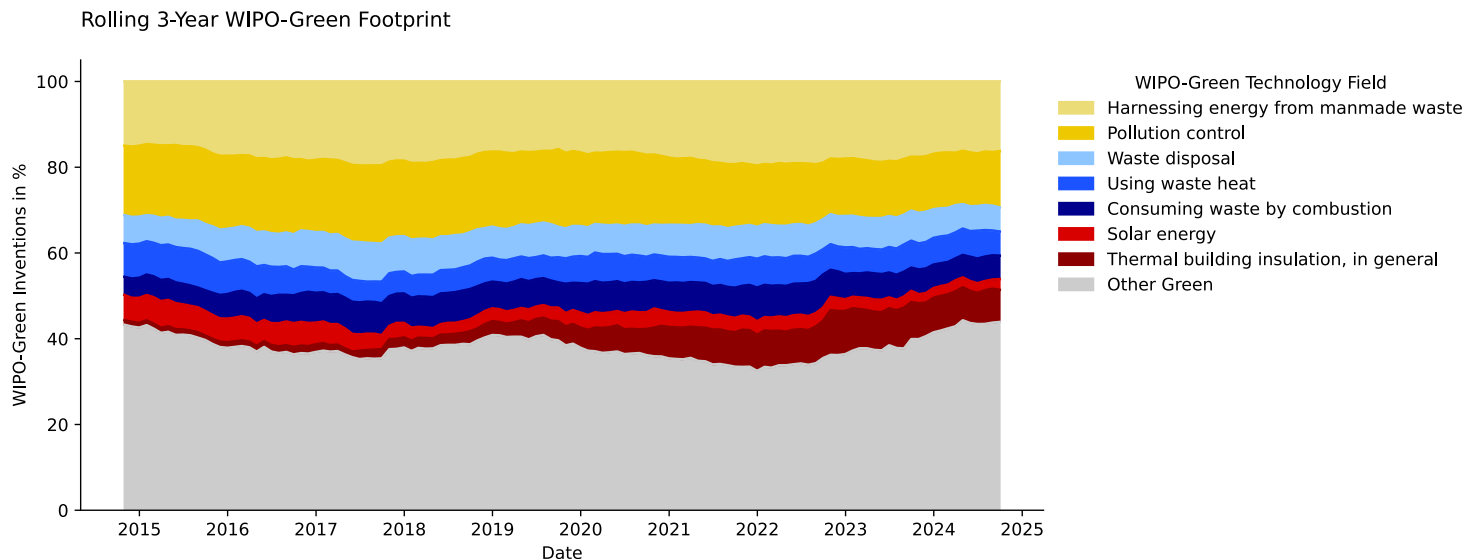
Rolling 1-Year Invention Count



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.



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)
Harnessing energy from manmade waste	104	16.2%	information processing, waste supply, combustion control, ash treatment, heat amount estimation
Pollution control	84	13.1%	water treatment, sewage treatment plant, oxygen reaction agent, osmosis water treatment, organic wastewater
Thermal building insulation, in general	48	7.5%	deck plate, composite slab, material panel, structural calculation, wall panel
Using waste heat	36	5.6%	electric furnace, blast furnace, methane gas, molten iron, methane gas generation
Waste disposal	36	5.6%	sediment cleaning
Solar energy	16	2.5%	thin film solar, supporting structure, organic thin film, gable casing, film solar cell

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