

Green Innovation Report

Hitachi, Ltd. - 2024

ISIN: JP3788600009, **Ticker:** 6501, **Country:** JP, **Sector:** Industrial Conglomerates

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)

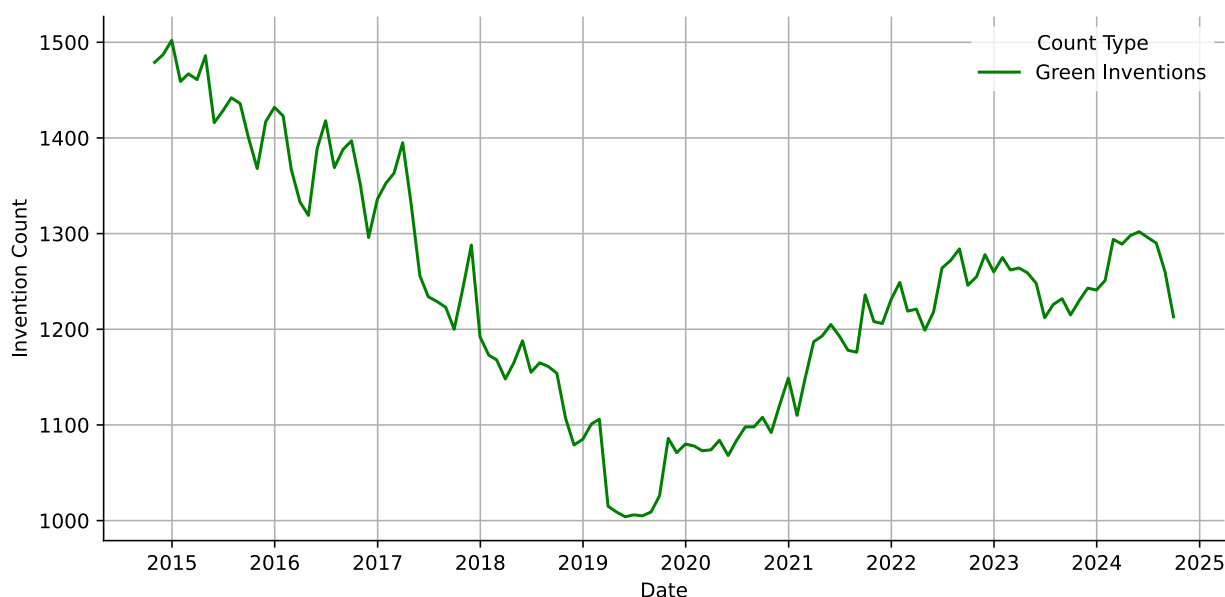
4144 Inventions

Green Invention Count (last 12 months)

1213 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.

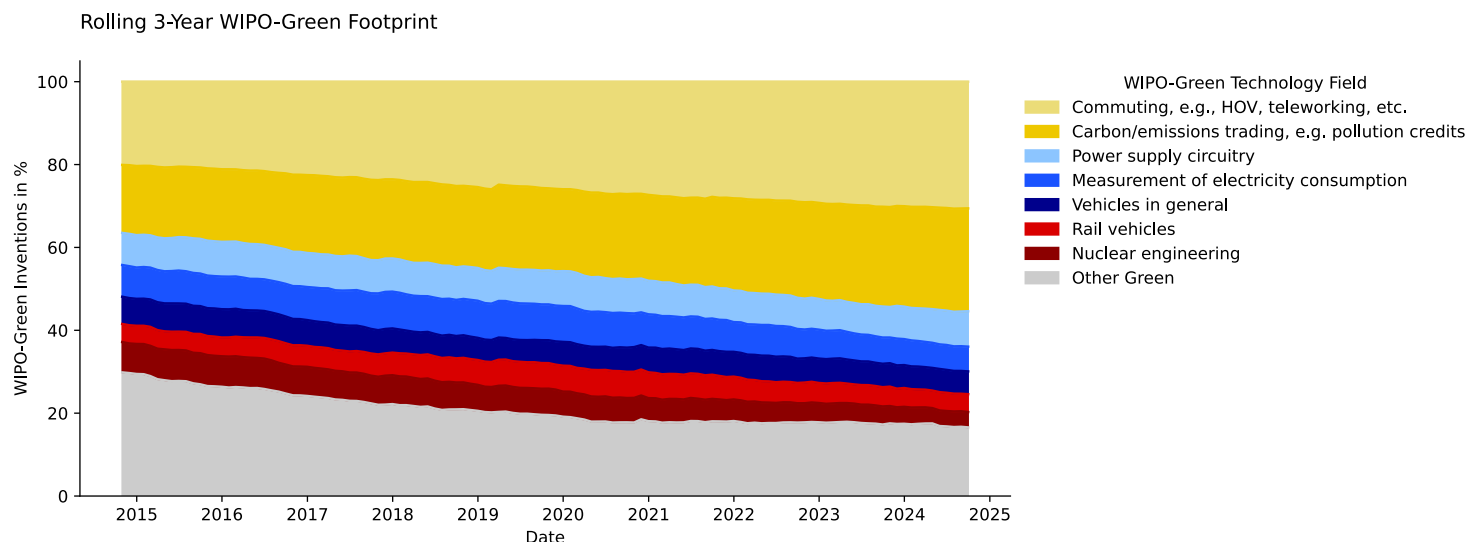
Rolling 1-Year Invention Count



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)
Commuting, e.g., HOV, teleworking, etc.	1,971	30.6%	information processing, vehicle control, work support, operation management, electronic control
Carbon/emissions trading, e.g. pollution credits	1,601	24.8%	work instruction, workflow recommendation, transaction mediation, object operation evaluation, mobile object operation
Power supply circuitry	551	8.5%	power supply, power grid, electric power, power management, wireless power transmission
Measurement of electricity consumption	385	6.0%	power conversion, battery management, battery diagnosis, state diagnosis, secondary battery
Vehicles in general	354	5.5%	vehicle control, motor control, electric vehicle, electric power, storage battery
Rail vehicles	278	4.3%	railway vehicle, train control, rail vehicle, train monitoring, train operation
Nuclear engineering	239	3.7%	nuclear power plant, fuel assembly, water reactor, reactor containment vessel, chemical decontamination

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