

Green Innovation Report

Nippon Telegraph and Telephone Corporation - 2024

ISIN: JP3735400008, **Ticker:** 9432, **Country:** JP, **Sector:** Integrated Telecommunication Services

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)

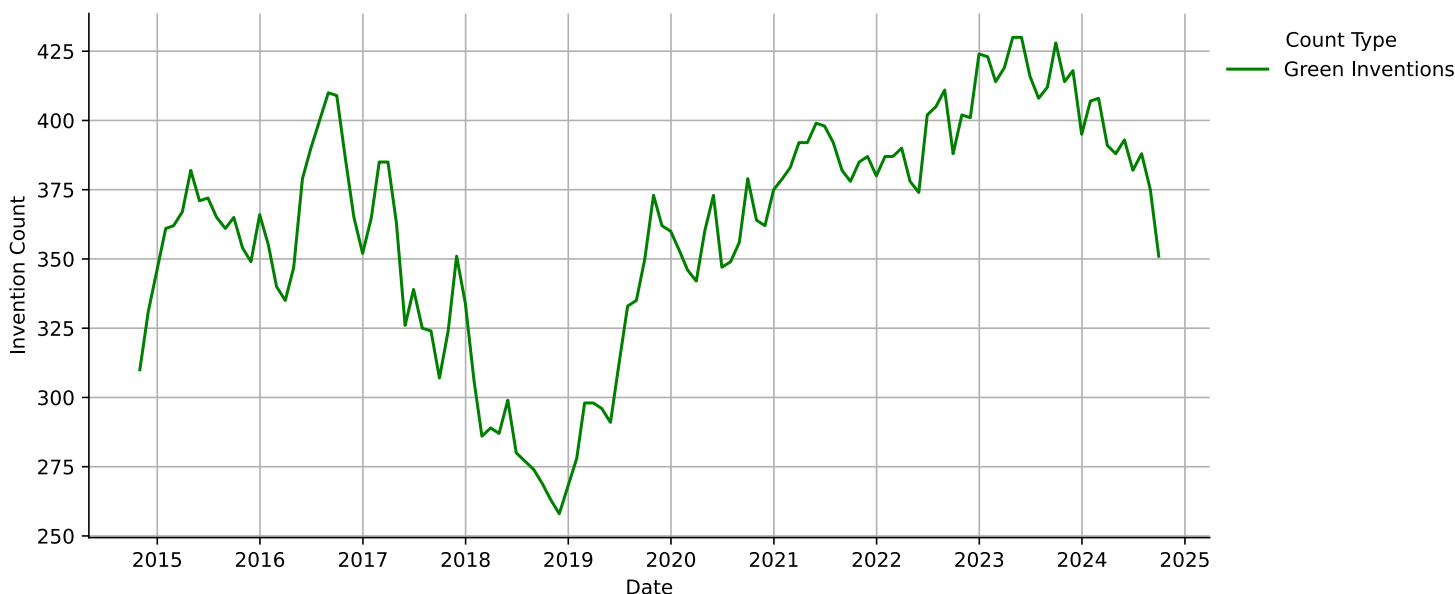
3321 Inventions

Green Invention Count (last 12 months)

351 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.

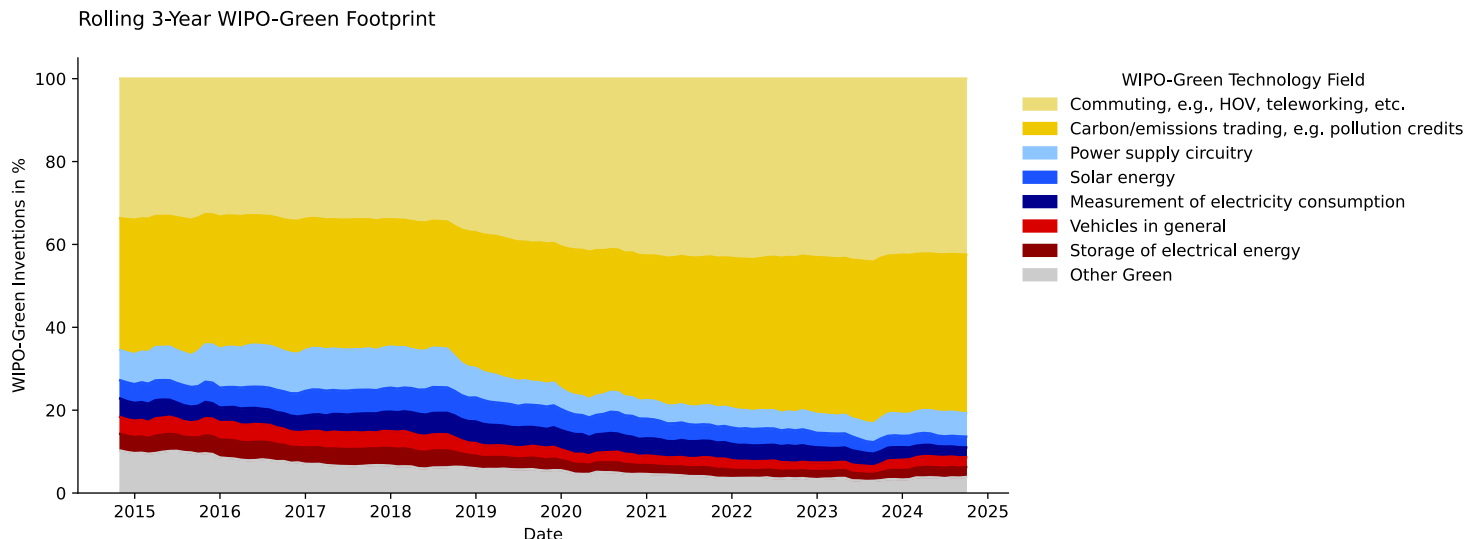
Rolling 1-Year Invention Count



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)
Commute, e.g., HOV, teleworking, etc.	915	42.5%	information processing, information processing program, computer program, information processor, interview support
Carbon/emissions trading, e.g. pollution credits	825	38.3%	demand prediction, social value evaluation, registrant terminal, holder terminal, demand prediction program
Power supply circuitry	121	5.6%	power supply, power amount control, dc power supply, power supply control, power control
Solar energy	56	2.6%	failure determination, surplus power, optical receiver, surplus power utilization, solar cell power
Storage of electrical energy	52	2.4%	power supply, energy storage, energy conversion, electric double layer, double layer capacitor
Measurement of electricity consumption	51	2.4%	wireless communication, storage battery capacity, seu cross section, propagation environment, frequency band estimation
Vehicles in general	51	2.4%	aircraft control, power supply control, communication management, abnormality determination, radio communication management

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