

Green Innovation Report

International Business Machines Corporation - 2024

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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)

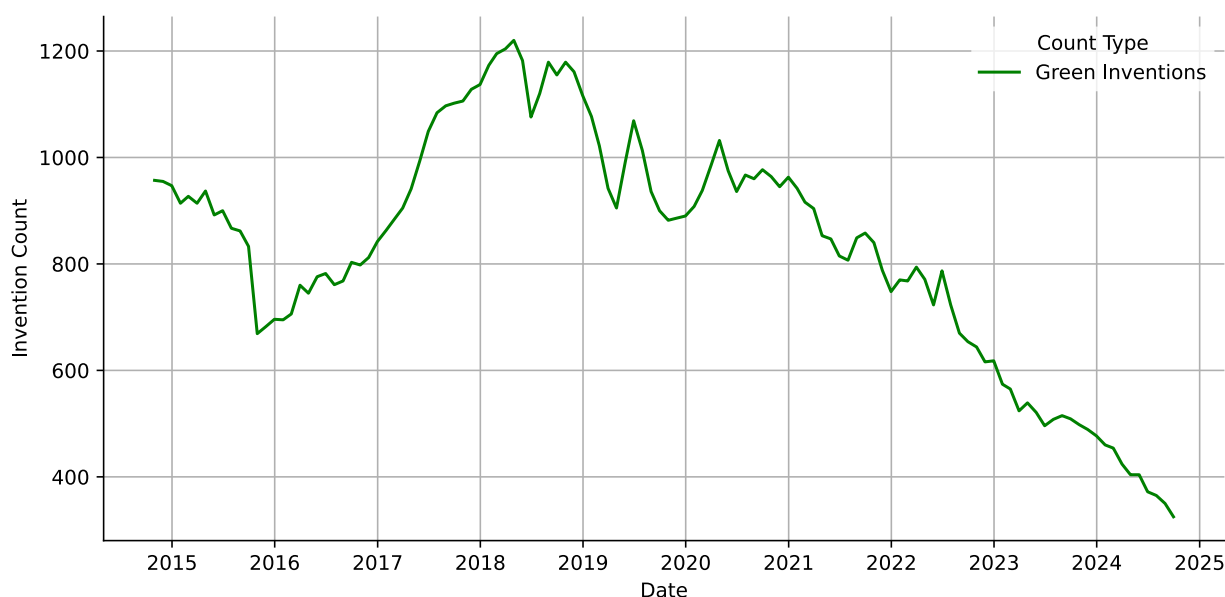
2835 Inventions

Green Invention Count (last 12 months)

325 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.

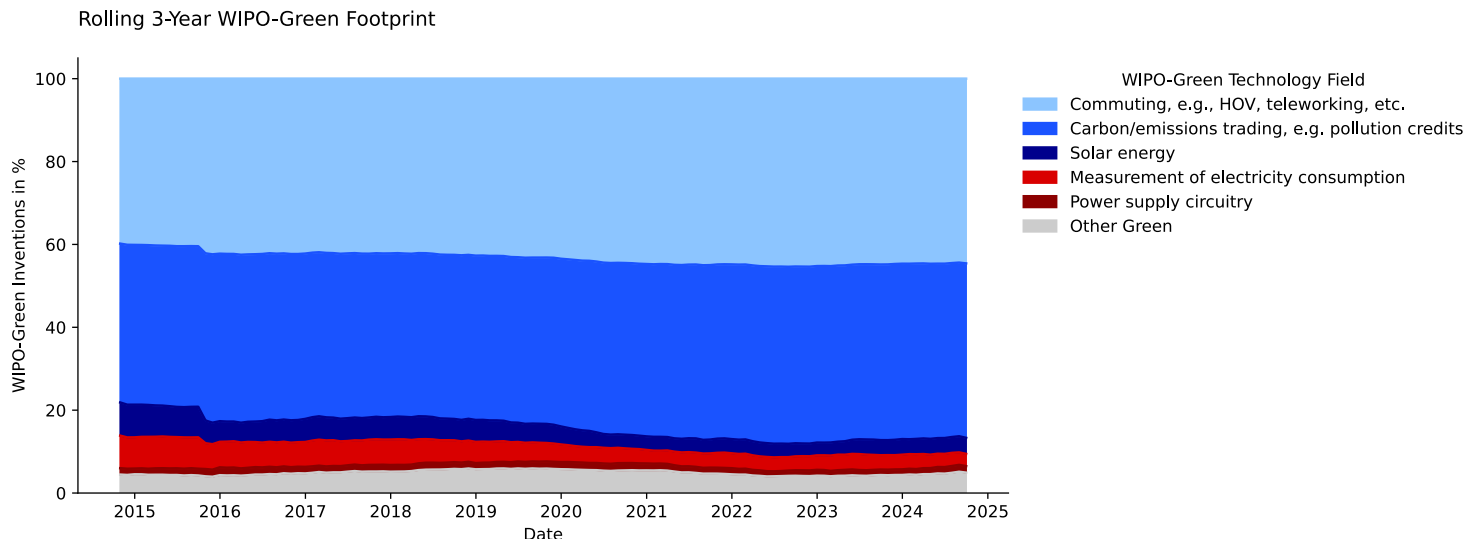
Rolling 1-Year Invention Count



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)
Communing, e.g., HOV, teleworking, etc.	1,222	44.6%	artificial intelligence, machine learning, digital twin, autonomous vehicle, blockchain network
Carbon/emissions trading, e.g. pollution credits	1,154	42.1%	wide plant optimization, virtual reality simulation, suspicious activity detection, significant event, risk network
Solar energy	106	3.9%	stacked field effect, random access memory, field effect transistor, magnetic random access, stacked transistor
Measurement of electricity consumption	81	3.0%	spread spectrum, radio frequency signal, bias temperature instability, wideband multitone generator, waveform validation
Power supply circuitry	43	1.6%	sensor array, power grid, electric power, electrical usage, electrical transmission

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