

# Green Innovation Report

## Caterpillar Inc. - 2024

**ISIN:** US1491231015, **Ticker:** CAT, **Country:** US, **Sector:** Construction Machinery & Heavy Transportation Equipment

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)

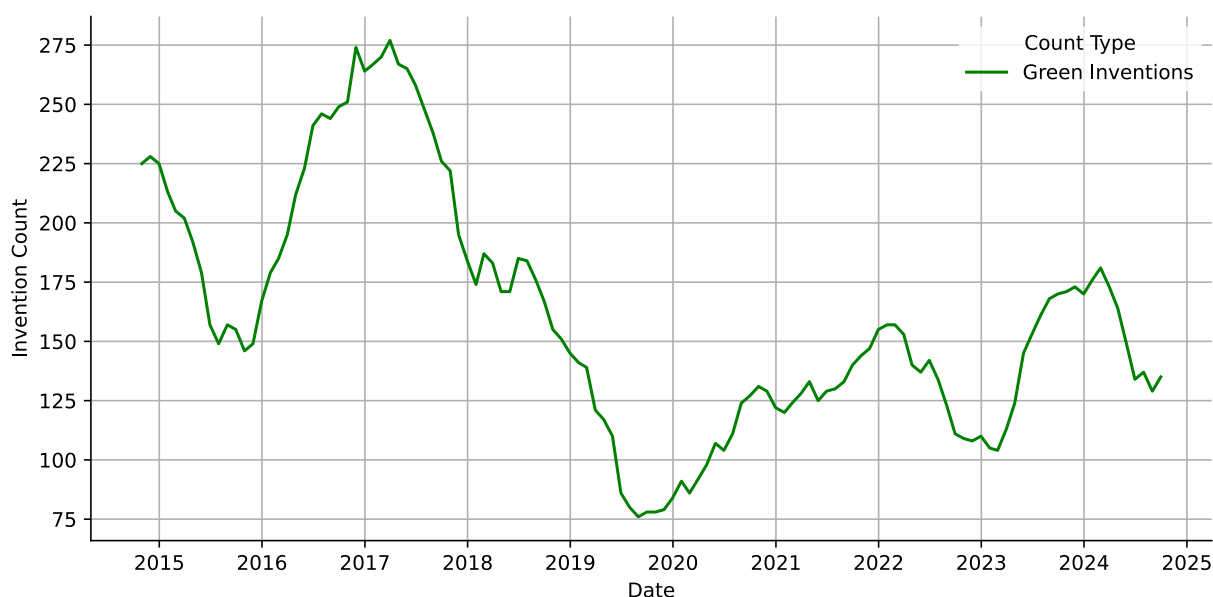
626 Inventions

### Green Invention Count (last 12 months)

135 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

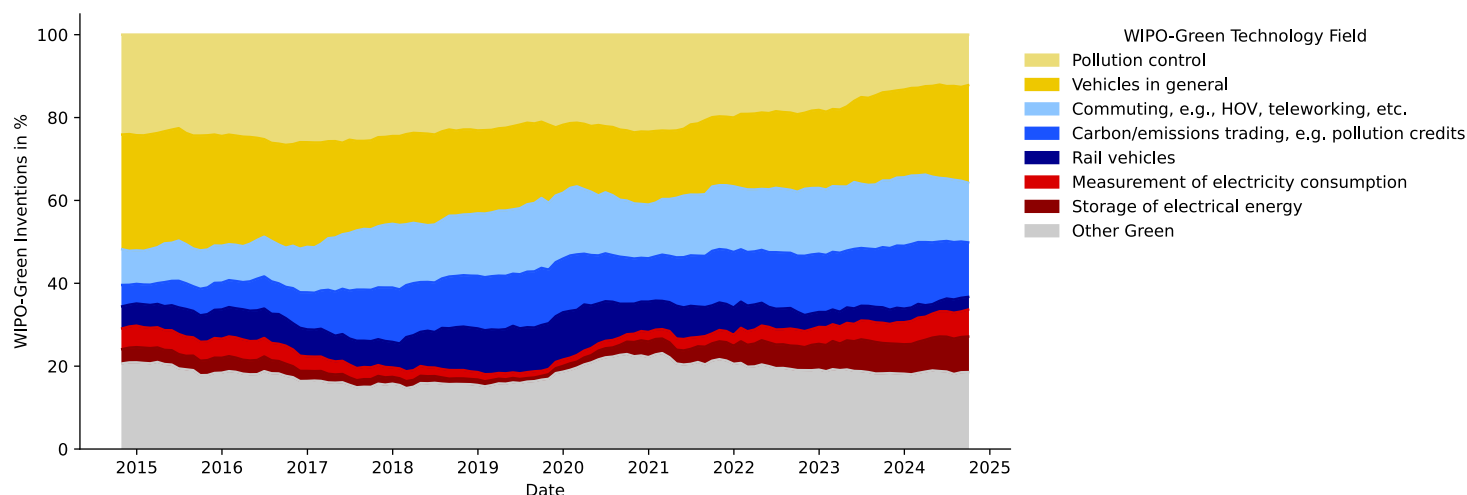


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

## 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)
Vehicles in general	170	23.5%	electric work vehicle, gaseous fuel engine, work machine, electric machine, internal combustion engine
Commuting, e.g., HOV, teleworking, etc.	104	14.4%	work machine, mine site, computer program product, undercarriage wear prediction, short term management
Carbon/emissions trading, e.g. pollution credits	95	13.2%	machine modification, improved productivity, effective utilization, autonomous machine
Pollution control	88	12.2%	internal combustion engine, diesel exhaust fluid, panel assembly, inter exchanger, frac sand separator
Storage of electrical energy	62	8.6%	storage assembly, electric machine, battery management, battery discharge function
Measurement of electricity consumption	47	6.5%	work machine, vehicle generator, square current measurement, single power source, sensor data
Rail vehicles	22	3.0%	electric locomotive, wireless node, vehicle energy, train run, train integrity

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