Green Innovation Report

Deere & Company - 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
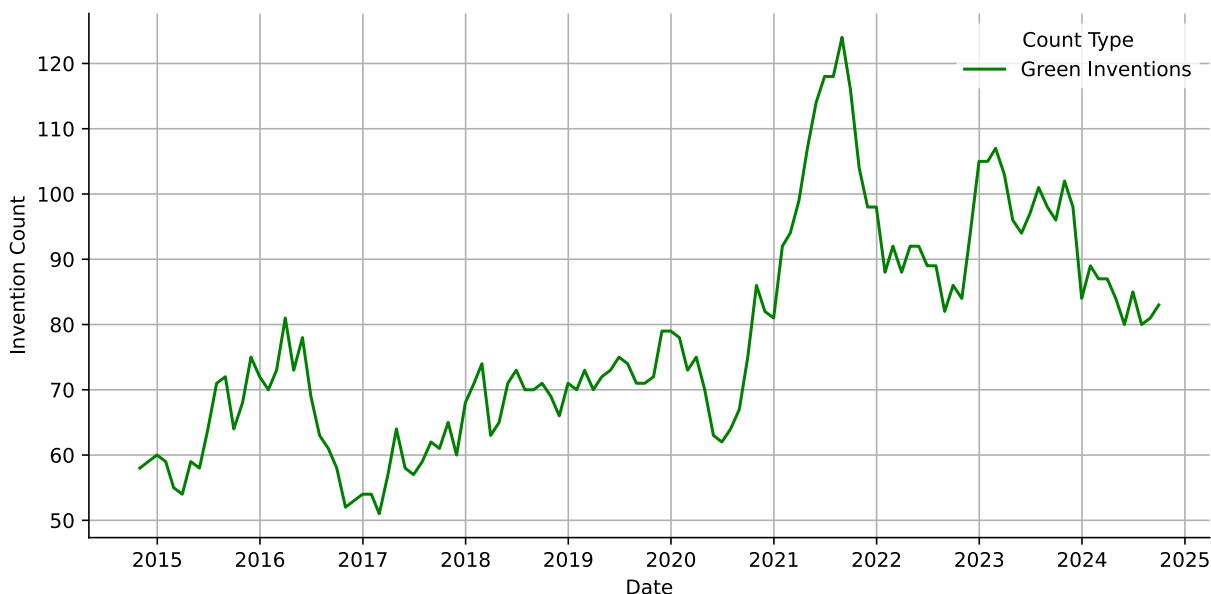
Invention Count (last 12 months)

520 Inventions

Green Invention Count (last 12 months)

83 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.
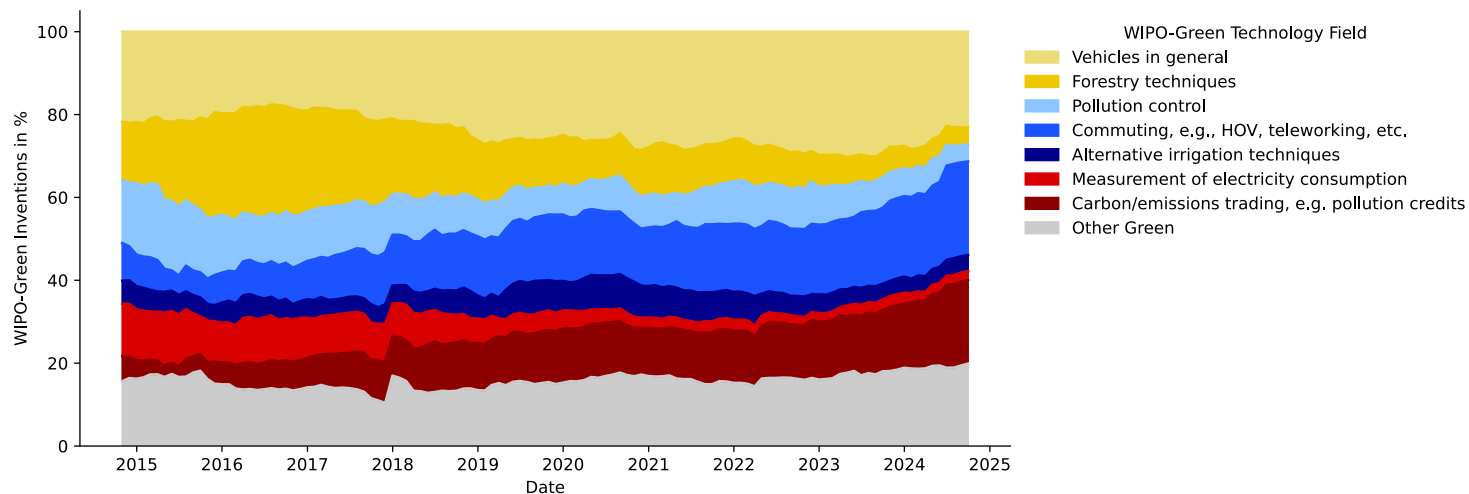

The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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	95	23.1%	work vehicle, industrial utility vehicle, electric machine, work vehicle multi, drive assembly
Commuting, e.g., HOV, teleworking, etc.	93	22.6%	work machine, work area, windrower operation, fill level, work vehicle
Carbon/emissions trading, e.g. pollution credits	83	20.1%	work machine, time surface scanning, time horizon model, real time surface, progressive time horizon
Forestry techniques	17	4.1%	harvester head module, work vehicle, work vehicle function, work state estimation, work machine
Pollution control	17	4.1%	diesel exhaust fluid, fluid injection shield, exhaust fluid injection, work vehicle power, work vehicle debris
Alternative irrigation techniques	16	3.9%	agricultural machine, untraversable soil, truss panel spray, tractor tool, sentinel plant characteristic
Measurement of electricity consumption	9	2.2%	work vehicle, temperature estimation, electric motor, deep learning model, conditional remote starting

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