

Green Innovation Report

UPM-Kymmene Oyj - 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)

53 Inventions

Green Invention Count (last 12 months)

13 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

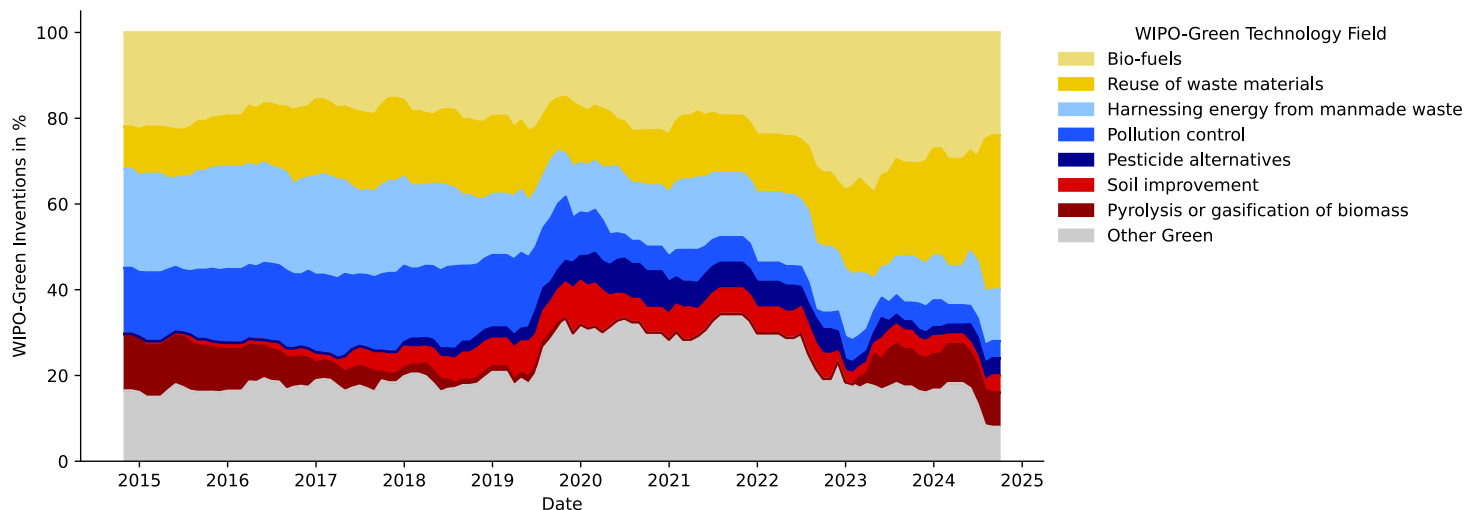


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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)
Reuse of waste materials	18	36.0%	glassine paper, sortable thermoplastic composition, short fiber furnish, release liner glassine, recyclable plastic label
Bio-fuels	12	24.0%	solvolysis process, hydrothermal liquefaction, thermal conversion, tall oil residue, stage process
Harnessing energy from manmade waste	6	12.0%	white liquor oxidation, lignin pellet, chemical residue
Pyrolysis or gasification of biomass	4	8.0%	recyclable thermoplastic composition, resistant thermoplastic composition, burning resistant thermoplastic
Pesticide alternatives	2	4.0%	moss control, plant growth promoter, granular biostimulant, aqueous solution
Pollution control	2	4.0%	rainwater pond

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