

Green Innovation Report

Resonac Holdings Corporation - 2024

ISIN: JP3368000000, **Ticker:** 4004, **Country:** JP, **Sector:** Diversified Chemicals

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)

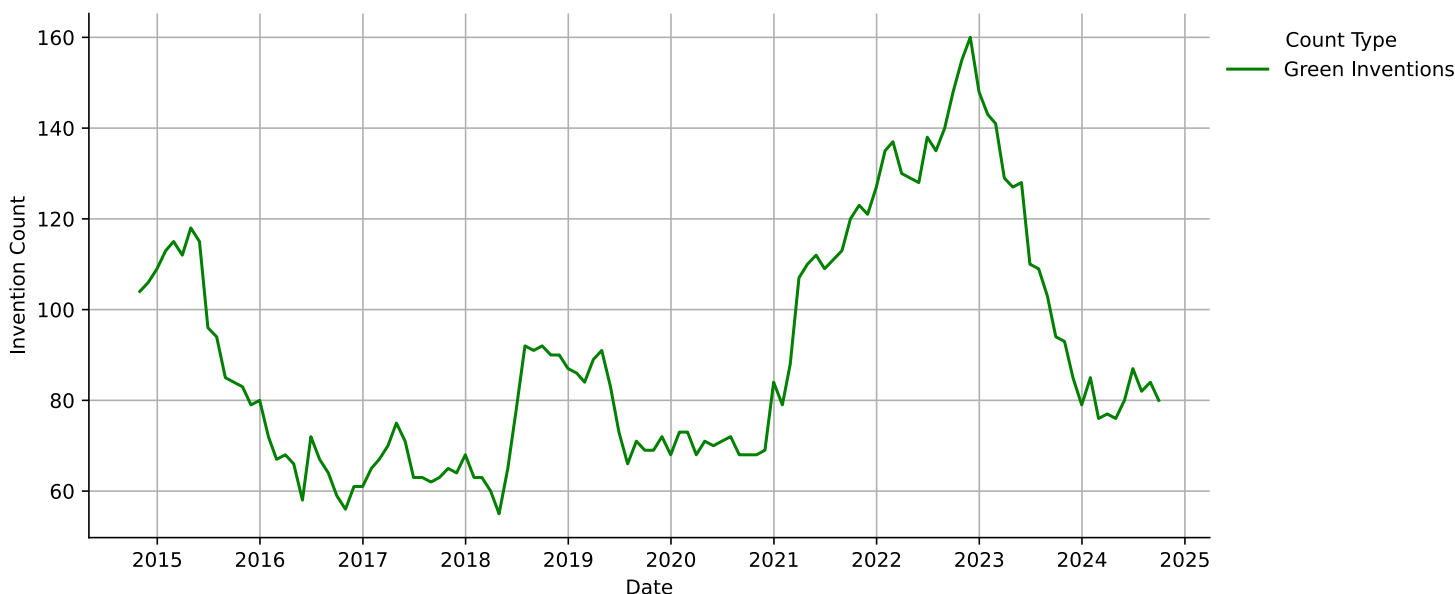
645 Inventions

Green Invention Count (last 12 months)

80 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

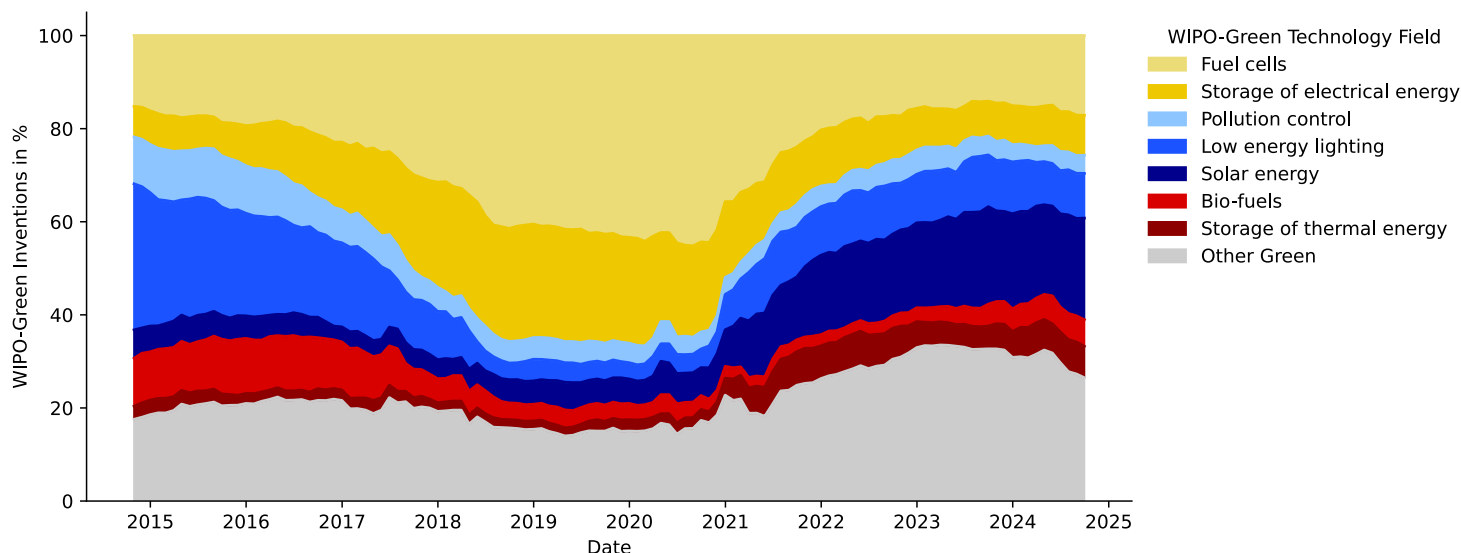


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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)
Solar energy	84	21.8%	solar cell element, composite particle, solar cell, electronic component, dicing/die bonding film
Fuel cells	66	17.1%	power storage, battery packaging material, zinc battery, solid state battery, exterior material
Low energy lighting	37	9.6%	photosensitive resin composition, organic el element, el element partition, optical semiconductor, type photosensitive resin
Storage of electrical energy	33	8.6%	energy storage, power supply, electrolyte solution, zinc battery control, zinc battery
Storage of thermal energy	26	6.8%	conductive composition, conductive sheet, polyoxyalkylene chain, wick formation, heat storage material
Bio-fuels	22	5.7%	vinyl acetate, ester compound, dicarboxylic acid derivative, acid derivative structure, proliferative cell
Pollution control	15	3.9%	chlorine gas, hydrogen fluoride gas, exhaust gas treatment, fluoride gas removal, discharge gas treatment

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