

Green Innovation Report

Tosoh Corporation - 2024

ISIN: JP3595200001, **Ticker:** 4042, **Country:** JP, **Sector:** Commodity 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)

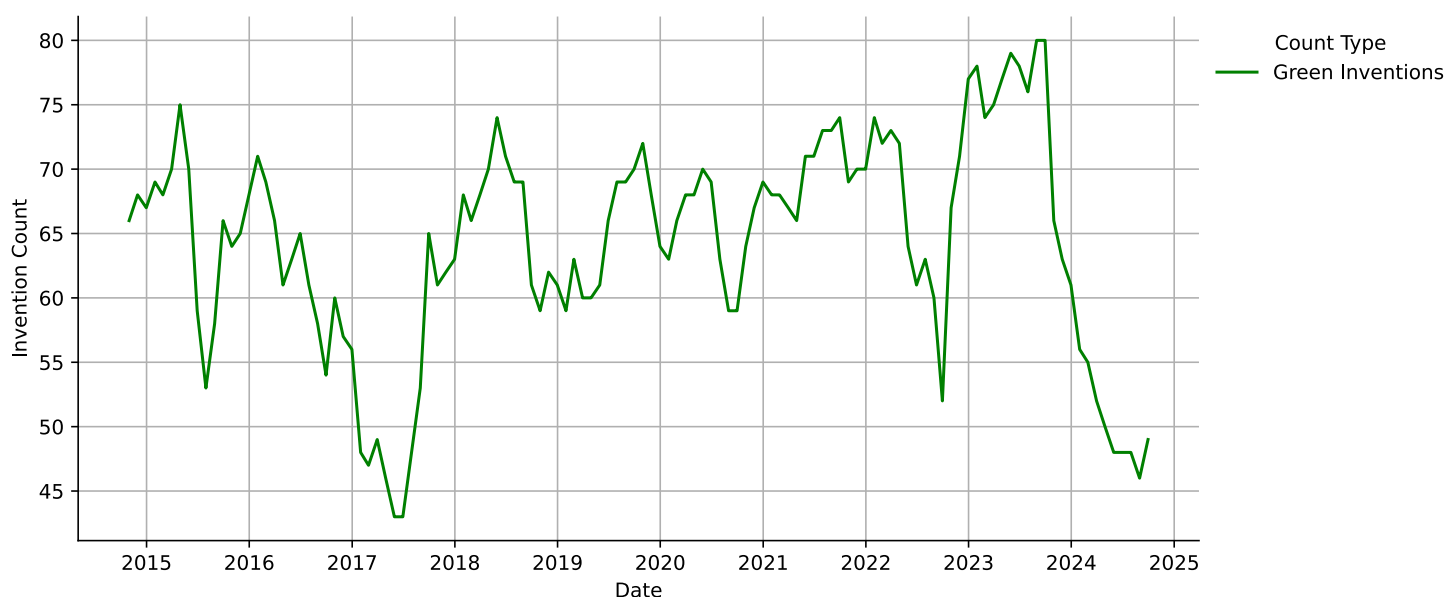
296 Inventions

Green Invention Count (last 12 months)

49 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

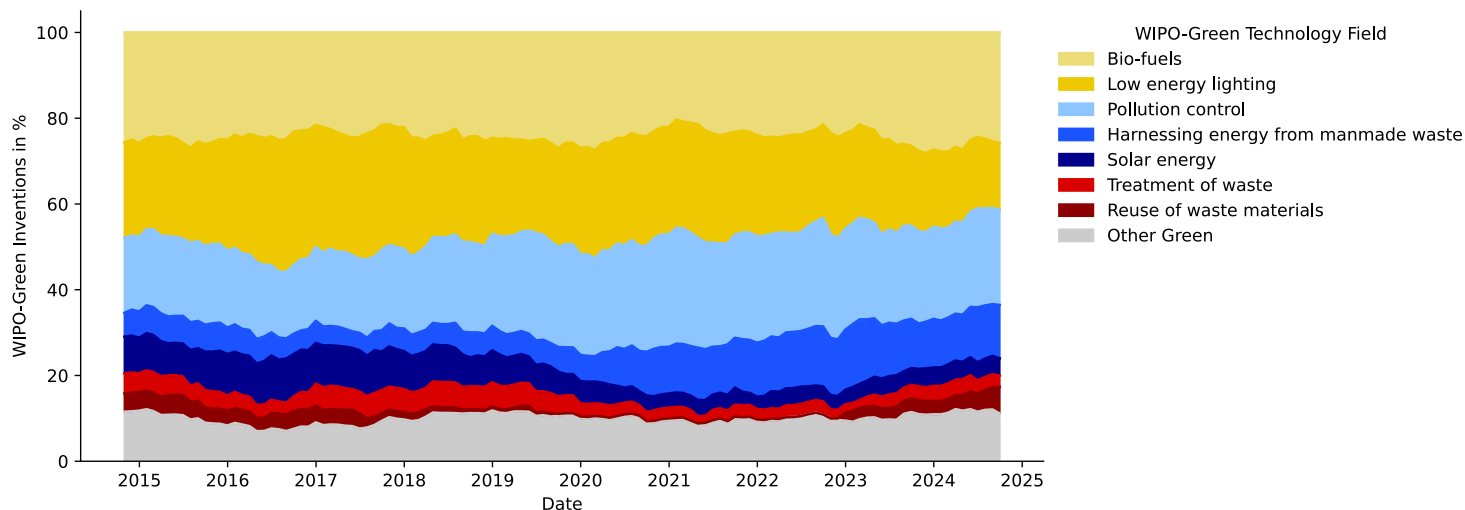


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

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)
Bio-fuels	58	25.8%	virus reverse transcriptase, myeloblastoma virus reverse, avian myeloblastoma virus, immunoglobulin binding protein, pluripotent stem cell
Pollution control	50	22.2%	carbon dioxide separation, amine composition, hydrocarbon adsorbent, hydrocarbon adsorption, valuable material
Low energy lighting	35	15.6%	organic electroluminescent element, organic electroluminescent, transport material, triazine compound, adamantane compound
Harnessing energy from manmade waste	28	12.4%	thermoplastic resin, hydrothermal treatment, hydrocarbon adsorbent, dioxide separation agent, carbon dioxide separation
Reuse of waste materials	14	6.2%	resin composition, waste plastic, resin mixture, thermal decomposition product, plastic waste
Solar energy	9	4.0%	metal si, photoelectric conversion element, thin film manufacturing, sputtering film, metallic material
Treatment of waste	6	2.7%	heavy metal, water reactive substance, reactive substance harmless, metal treatment agent, heavy metal treatment

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