

# Green Innovation Report

## TOPPAN Holdings Inc. - 2024

**ISIN:** JP3629000005, **Ticker:** 7911, **Country:** JP, **Sector:** Commercial Printing

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)

1300 Inventions

### Green Invention Count (last 12 months)

196 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

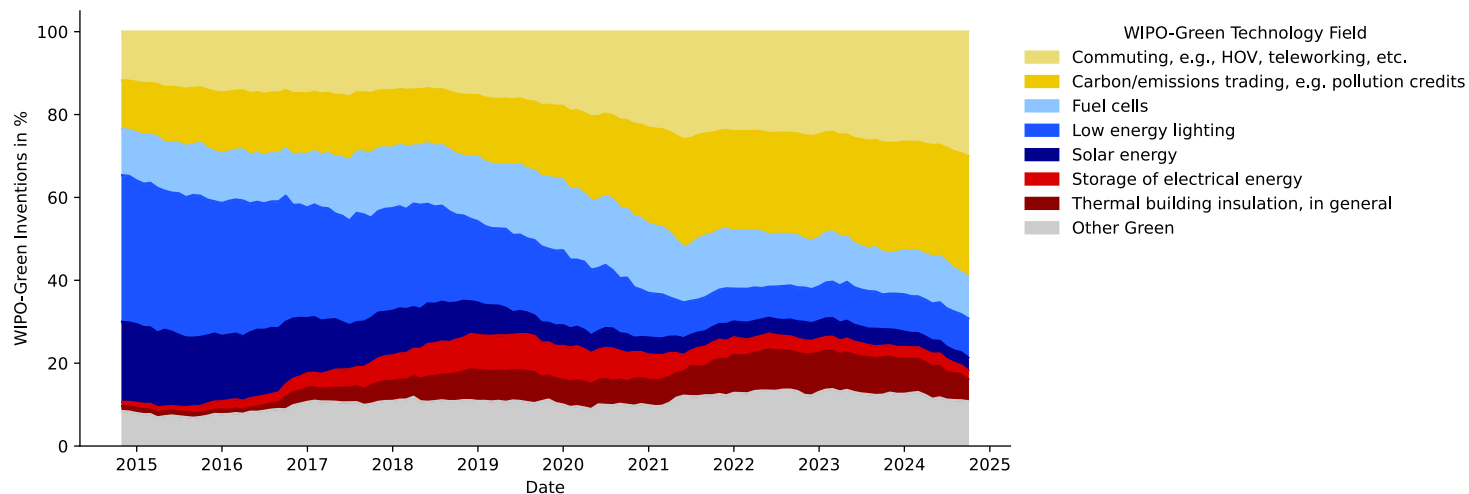


The graph above illustrates the number of green inventions published by the company over the past decade. Data is presented monthly, with each point representing the total green invention count for the preceding 12 months.

## 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)
Communing, e.g., HOV, teleworking, etc.	242	30.0%	information management, information processing, information management server, virtual space generation, authenticity determination
Fuel cells	82	10.2%	membrane electrode assembly, power storage, electrode catalyst layer, polymer electrolyte fuel, electrolyte fuel cell
Low energy lighting	76	9.4%	vapor deposition mask, optical film, metal mask, wavelength conversion substrate, organic el display
Thermal building insulation, in general	43	5.3%	decorative sheet, decorative material, decorative member, decorative board, moisture proof decorative
Solar energy	25	3.1%	solar cell, state imaging element, solid state imaging, reflective mask, semiconductor package
Storage of electrical energy	17	2.1%	power supply, terminal film, power supply control, power storage

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