

# Green Innovation Report

## Alphabet Inc. - 2024

**ISIN:** US02079K3059, **Ticker:** GOOG.L, **Country:** US, **Sector:** Interactive Media & Services

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)

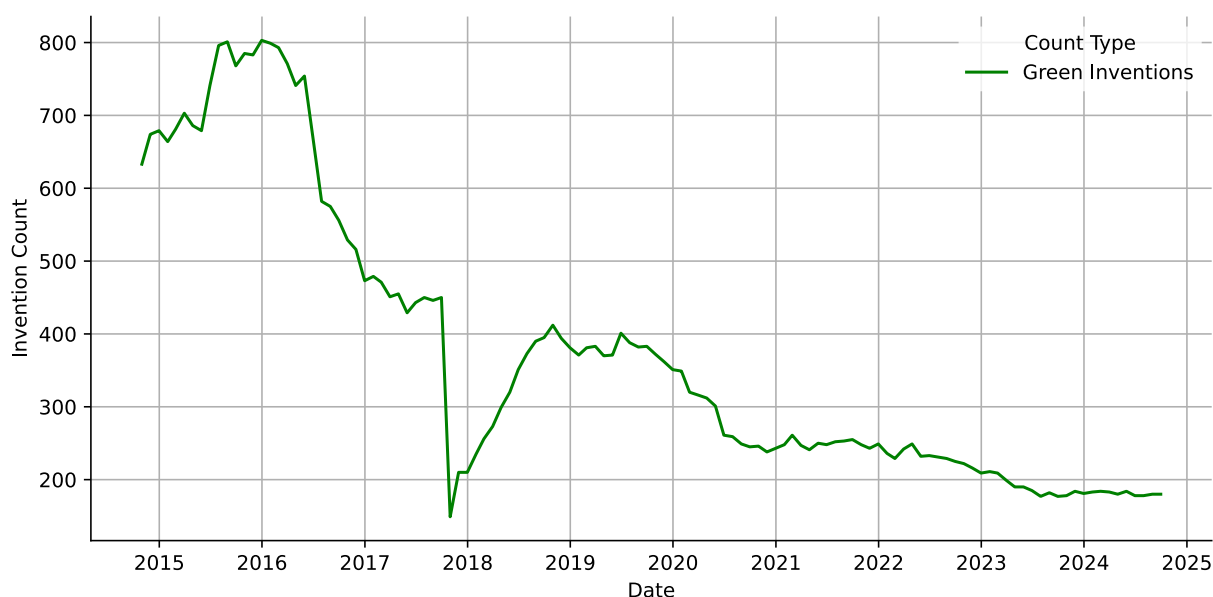
1973 Inventions

### Green Invention Count (last 12 months)

180 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.

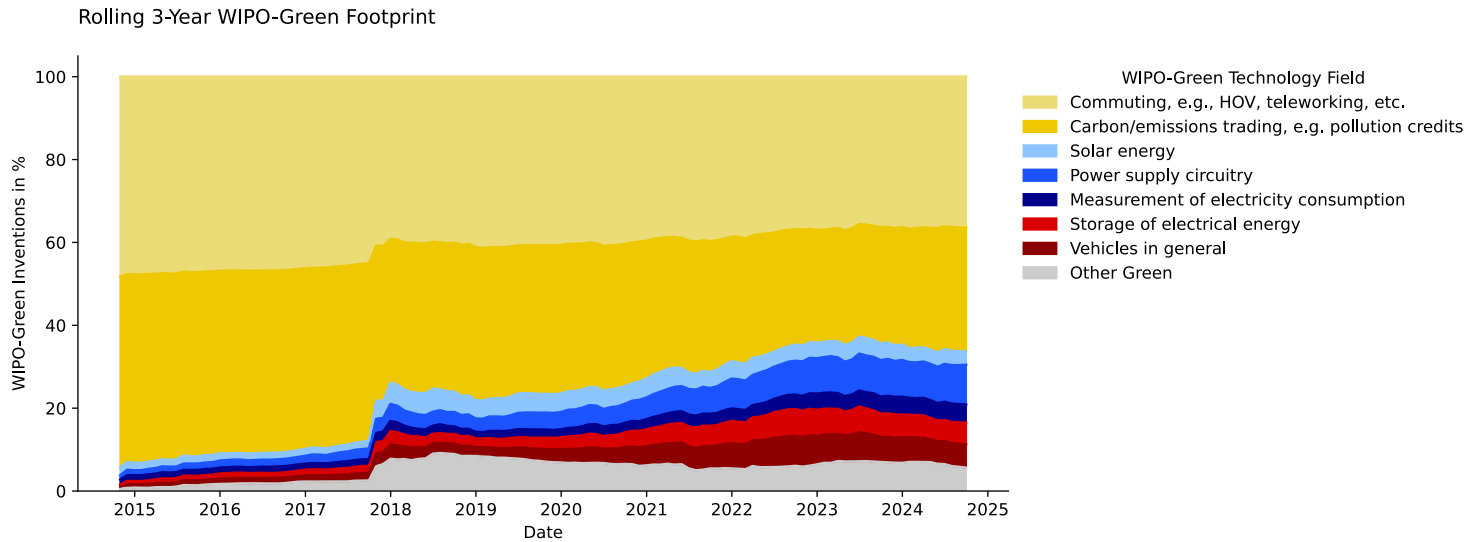
Rolling 1-Year Invention Count



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.



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)
Commuting, e.g., HOV, teleworking, etc.	375	36.4%	autonomous vehicle, unmanned aerial vehicle, machine learning, transportation service, large language model
Carbon/emissions trading, e.g. pollution credits	308	29.9%	unmanned aerial vehicle, secure attribution, search result, merchant facility, graphical content
Power supply circuitry	99	9.6%	wireless power transfer, grid connection mapping, electric grid connection, wireless power receiver, wireless charging
Vehicles in general	58	5.6%	rechargeable battery, voltage detection methodology, voice integration, unmanned aerial vehicle, uneven load mitigation
Storage of electrical energy	54	5.2%	rechargeable battery, parallel battery cell, multi cell architecture, long term, high temperature storage
Measurement of electricity consumption	45	4.4%	spin defect magnetometry, validation platform, transient detection, transducer excursion correction, throughput scan architecture
Solar energy	33	3.2%	multi layer chip, layer chip architecture, performance multi die, high performance multi, high bandwidth memory

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