

# Green Innovation Report

## Trane Technologies plc - 2024

**ISIN:** IE00BK9ZQ967, **Ticker:** TT, **Country:** IE, **Sector:** Building Products

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)

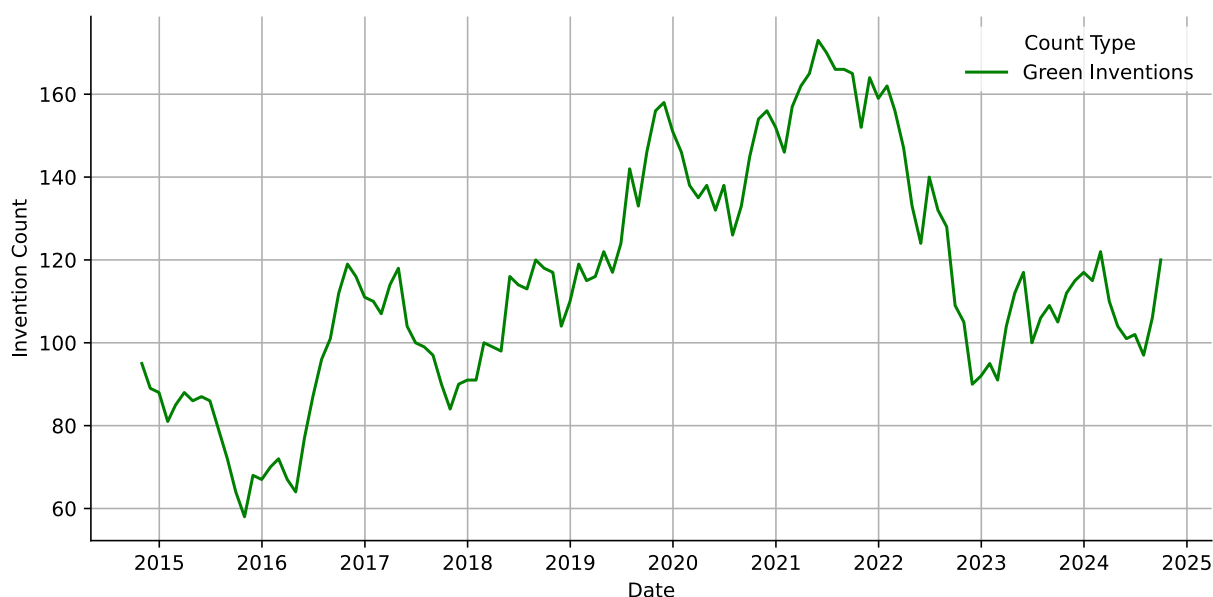
519 Inventions

### Green Invention Count (last 12 months)

120 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.

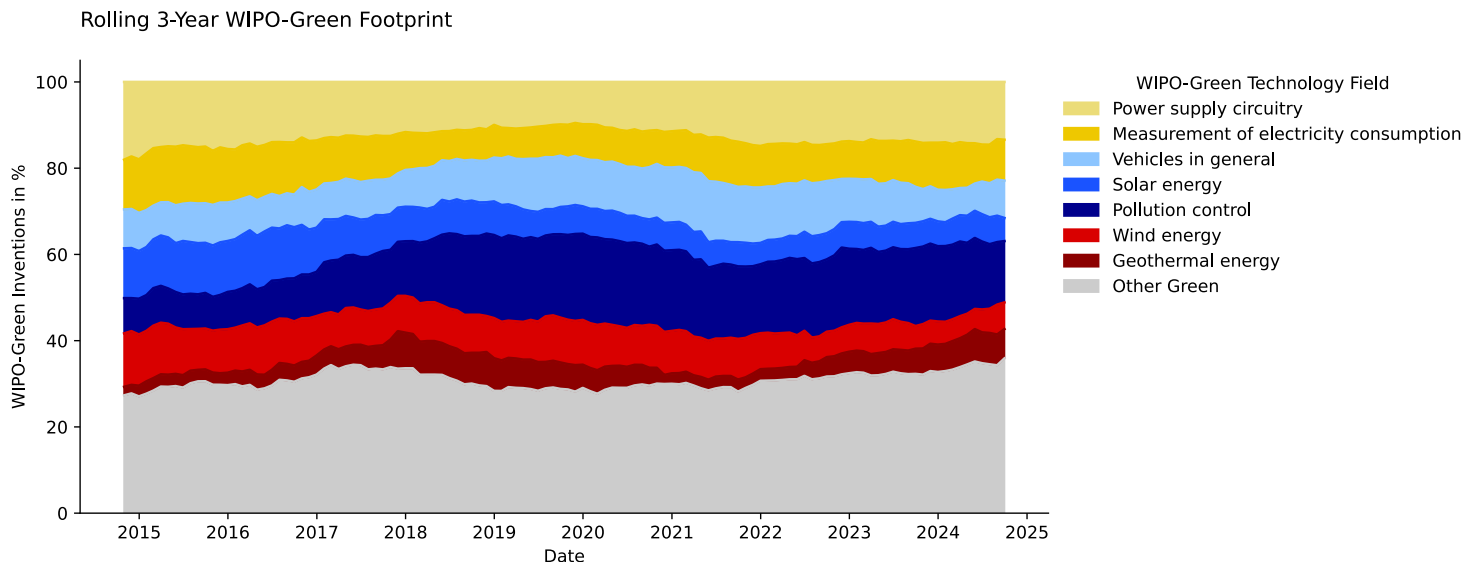
Rolling 1-Year Invention Count



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)  |
|--|----------------------|-------------------------------------|--|
| Pollution control                      | 69                   | 14.2%                               | mid pressure water, environmental control, variable frequency, pressure water collector, passive phase separator                   |
| Power supply circuitry                 | 65                   | 13.4%                               | motor drive, transformer rectifier unit, solid state power, secondary power distribution, paralleled source                        |
| Measurement of electricity consumption | 46                   | 9.5%                                | fault detection, insulation monitoring, fault protection, common mode voltage, aircraft power district                             |
| Vehicles in general                    | 42                   | 8.7%                                | air cycle machine, motor power control, wide gain converter, turbomachine dual spool, transport climate control                    |
| Geothermal energy                      | 33                   | 6.8%                                | supercritical carbon dioxide, air conditioner, water source heat, vapor compression, unit performance                              |
| Wind energy                            | 30                   | 6.2%                                | permanent magnet generator, micro turbine alternator, magnet generator brake, waste heat recovery, variable displacement hydraulic |
| Solar energy                           | 26                   | 5.4%                                | vapor compression cycle, thermoelectric power generation, thermal management architecture, thermal management, standby power       |

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