2026

Desktop NTT Business W 900 A Product Carbon Footprint

Prepared by Plan Be Eco

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Methodology

How do we calculate the carbon footprint?

Product Carbon Footprint Methodology

The product carbon footprint (PCF) assessment was conducted in accordance with the GHG Protocol Product Life Cycle Accounting and Reporting Standard and aligned with the principles of ISO 14067. The objective was to quantify the total greenhouse gas (GHG) emissions associated with a plastic packaging product across selected life cycle stages.

The following stages were included in the assessment:

- Material acquisition (raw material extraction and processing),
- Production processes (on-site manufacturing activities),
- Transportation (logistics from suppliers to the production site and/or to customers),
- Utilization phase (typical use by end users, where relevant).

Emissions were calculated in terms of carbon dioxide equivalents (CO_2e), covering all relevant GHGs as defined by the GHG Protocol. The analysis was based on a combination of primary data (e.g., material inputs, energy consumption) and secondary data for background processes, including emission factors from reputable databases such as

- UK Government GHG Conversion Factors for Company Reporting 2024
- Aerospace Industry Tool for Calculating Scope 3 Greenhouse Gas Emissions of Purchased Goods & Services and Capital Goods
- BEIS
- Circular Ecology
- Exiobase

This PCF enables identification of emission hotspots along the value chain and supports informed decision-making for emission reduction and product optimization.

Carbon footprint results

This report was prepared in accordance with the life cycle assessment (LCA) methodology for the productDesktop NTT Business W 900 A as of April 29, 2026

Carbon footprint

The carbon footprint of one piece of Desktop NTT Business W 900 A is 582,15 kg co2e

582,15 kg CO_2e

Phase	kg CO_2e / 1 pcs
Material acquisition	285.5954
Transport upstream	3.7200
Production processes	31.3603
Transport downstream	1.2807
Use phase	260.1976
Utilization phase	0,045

Table 1. Distribution of Product Carbon Dioxide Equivalent Emissions Across LCA Phases

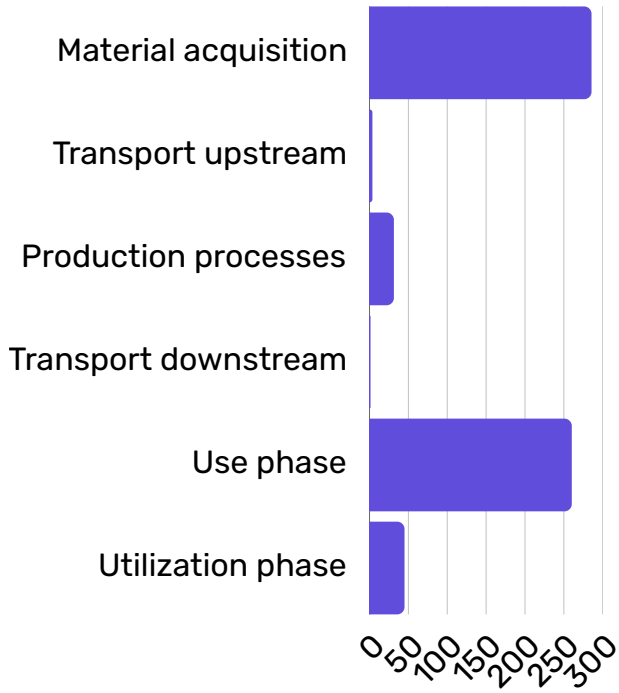

Chart 1. Distribution of Product Carbon Dioxide Equivalent Emissions Across LCA Phases

Analysis of Results:

Hotspot Analysis
Purchased goods (285.60 kg CO_2e, 49.1%) is the dominant contributor. Within this category, electronic components dominate at 97.23% (277.77 kg CO_2e), reflecting the emission intensity of global electronics supply chains. Metal assortment contributes 1.82% (5.19 kg CO_2e) and plastics 0.95% (2.71 kg CO_2e).

Use phase (260.20 kg CO_2e, 42.0%) captures electricity consumption over the operational lifetime. Results are sensitive to the carbon intensity of the end-user's electricity grid. Production processes contribute 5.1%. Transport and end-of-life phases together represent less than 1% and are not material hotspots.

Summary and Conclusions
The life cycle carbon footprint of Desktop NTT Business W 900 A is 619.09 kg CO_2e per unit (ISO 14040/14044, cradle-to-grave).
Two hotspots drive the result: material acquisition (52.1%), dominated by electronic sub-components, and the use phase (42.0%), driven by operational electricity consumption. Together they account for over 94% of total emissions.
Key reduction opportunities:

- Energy efficiency — reducing device power consumption directly lowers use-phase emissions, particularly in carbon-intensive grid markets
- Supply chain data — replacing spend-based estimates with primary supplier data would reduce uncertainty for the largest emission category
- Recycled copper — given copper's disproportionate contribution relative to its mass, sourcing recycled material offers a targeted reduction lever

Summary

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The carbon footprint of one piece of Desktop NTT Business W 900 A is 582,15 kg co2e

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