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Cisco Catalyst IW9167E Heavy Duty Access Point

Life Cycle Assessment Summary: IW9167E

Goal and Scope

This summary presents the GHG emissions associated with the production, transport, use phase and end-of-life (EOL) of Cisco's IW9167E heavy duty access point. It is based on the*Life Cycle Assessment Report: Cisco Catalyst IW9167E Heavy Duty Access Point*, which is in alignment with the International Organization for Standardization (ISO) Standards 14040 and 14044 on LCA (ISO, 2006) and can be found in the Environmental Sustainability section of cisco.com. The underlying report and this summary have not been critically reviewed and are therefore not ISO-conformant.

Table 1: IW9167E Technical Specifications

Technical Data	IW9167E
Product weight	4.2 kg
Typical Annual Energy Consumption[1]	131.4 kWh
Dimensions (H * W * D)	2.8 x 11.5 x 11 in

Note: [1]Typical annual energy consumption is estimated based on product function and assumed product use.

System Boundary

The model's system boundary was from cradle-to-grave for the life cycle inventory (LCI) and assessment and included raw material extraction and refinement, material transport, component manufacturing, assembly, testing, delivery, use phase and EOL. The product is disposed of at its EOL assuming a 5 year lifespan.

The study assumes most electronics production occurs in Asia and all material inputs were matched to datasets that are either global averages or Chinese datasets. Manufacturing was modeled specifically for Vietnam as the manufacturing country in terms of energy consumption. The use phase was assumed to take place in the United States and EOL was assumed as a global average.

Results

The GHG emissions (according to IPCC AR6 GWP 100, excluding biogenic carbon) per IW9167E heavy duty access point were 477 kg CO2e. The GHG emissions were categorized into different life cycle stages covering manufacturing, transport, use phase and EOL. Both the manufacturing phase (22%) and use phase (66%) influence the overall impact, contributing 88 percent of the total for the IW9167E. Within the manufacturing phase, key electrical components such as the PCBs and ICs were the most significant drivers, contributing to 54 percent of the manufacturing impacts. The mechanical components, such as the metals and plastics, were the next largest driver of the manufacturing phase, contributing to 34 percent of the impact.

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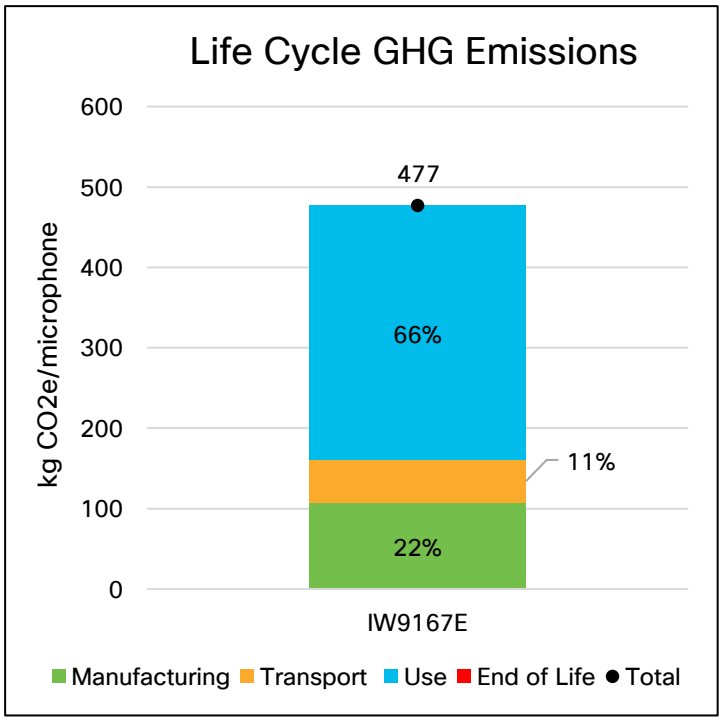

Life Cycle Phase	GHG Emissions (kg CO2e)
Manufacturing	107
Transport	54
Use	316
End of Life	<1
Total	477

Note: Figures may not total 100 percent due to rounding of underlying data.

Limitations

There are a few key data limitations associated with electrical components and the use of secondary data for assembly and testing. Within the BOM, electrical components were matched to the components available in the LCA for Experts (formerly GaBi) and ecoinvent databases, which were not always an exact match. Proxied components were scaled by length and width or mass to reflect the number and type of components in the product under study.

Manufacturing burdens of the assembly and testing of the product were proxied using secondary datasets from ecoinvent. A limitation of the proxies is that they do not track operation improvements or changes over time.

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Further information on Cisco's approach to Life Cycle Assessments (LCAs) is available at Cisco's Purpose Reporting Hub, at https://www.cisco.com/c/m/en_us/about/csr/esg-hub.html

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