Life Cycle Assessment Report

B360 PRO FULLY RUGGED LAPTOP

Background

Getac Technology Corporation has recently conducted a life cycle assessment (LCA) of its laptop product, the B360 Pro. This report summarizes the environmental impact categories considered, along with the results of the impact assessment across stages of the product life cycle: manufacturing, transport, use, and end-of-life phases ("cradle-to-grave"). Critical review of this study result was done by third-party on August 8, 2024.

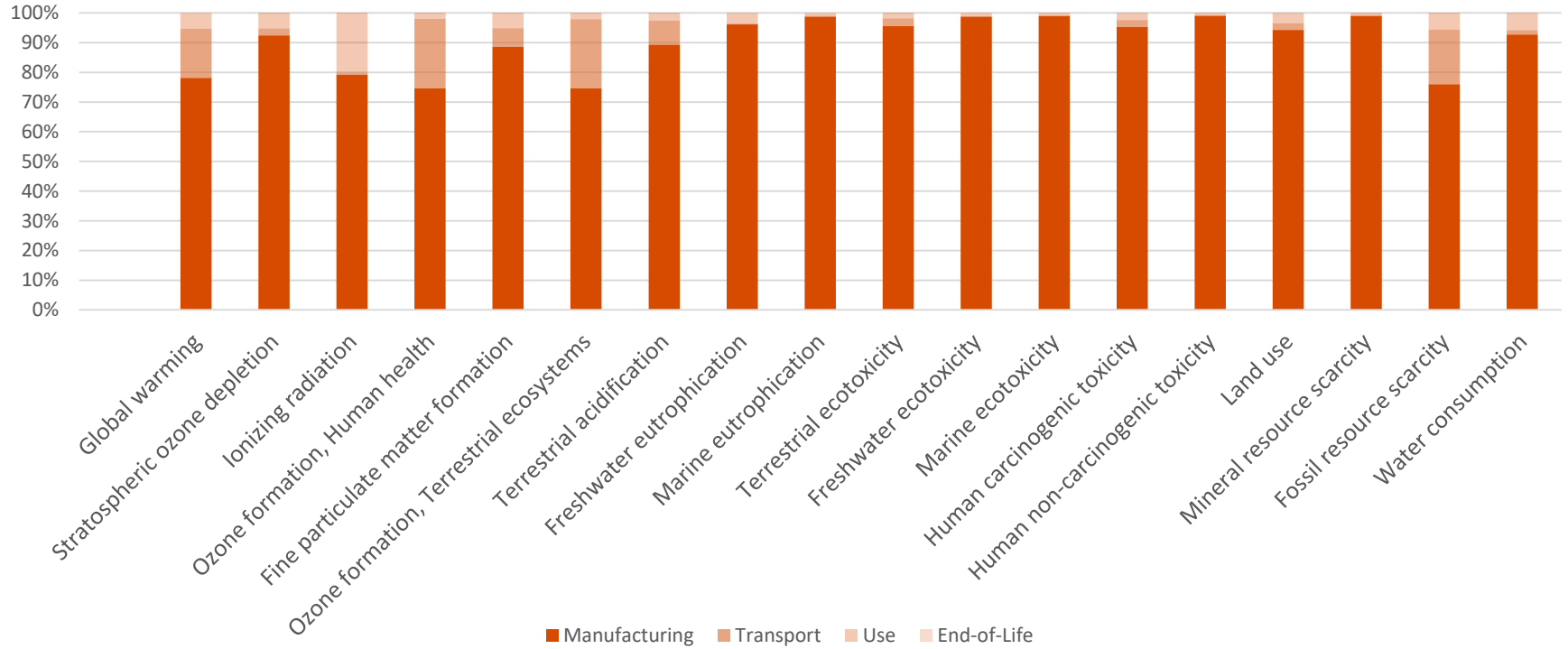
Evaluation Factors

Methodology	Life cycle assessment is calculated regarding compliance with requirements of ISO 14040 and ISO 14044
Boundary	Manufacturing, transport, use, and end-of-life
Product Lifetime	3 Years
Database	Ecoinvent v3.10
Method for Impact Assessment	Lifecycle impact assessment according to ReCiPe 2016 Midpoint (E) V1.09 / World (2010) E provided in the SimaPro v9.6.0.1
LCA software	SimaPro v9.6.0.1

The LCA results are detailed in the characterized environmental impacts on the next page:

Getac

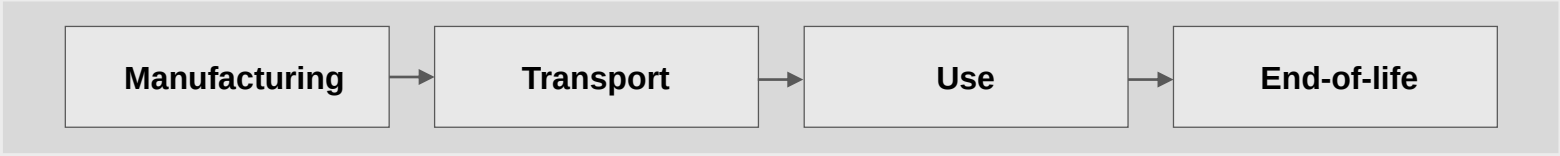
Characterized Environment Impact



	Global warming	Stratospheric ozone depletion	Ionizing radiation	Ozone formation, Human health	Fine particulate matter formation	Ozone formation, Terrestrial ecosystems	Terrestrial acidification	Freshwater eutrophication	Marine eutrophication	Terrestrial ecotoxicity	Freshwater ecotoxicity	Marine ecotoxicity	Human carcinogenic toxicity	Human non-carcinogenic toxicity	Land use	Mineral resource scarcity	Fossil resource scarcity	Water consumption
End-of-Life	0.07%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	0.04%	0.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.02%	0.00%
Use	5.24%	5.23%	20.09%	2.05%	5.15%	2.11%	2.56%	3.52%	0.75%	1.80%	1.15%	0.85%	2.45%	0.85%	3.48%	0.66%	5.56%	5.83%
Transport	16.57%	2.27%	0.65%	23.28%	6.18%	23.26%	8.13%	0.30%	0.26%	2.66%	0.13%	0.17%	2.33%	0.15%	2.27%	0.32%	18.41%	1.47%
Manufacturing	78.13%	92.48%	79.25%	74.66%	88.67%	74.62%	89.30%	96.15%	98.76%	95.55%	98.73%	98.98%	95.22%	99.00%	94.24%	98.98%	76.00%	92.77%

The System Boundary of Life Cycle Inventory

The product’s life cycle stages including Manufacturing, Transport, Use, and End-of-Life. Below is a brief description of each phase.



Manufacturing: Includes the raw material extraction, manufacture, transportation of raw materials, as well as the manufacture, transport, assembly, and packing of all parts.

Transport: Includes air, ocean, or road transportation of the finished product from the point of final product assembly to the customer or product ownership.

Use: Assumes a three-year period. In-use energy consumption is calculated using the U.S. Environmental Protection Agency's Energy Star® Typical Energy Consumption (TEC) methodology.

End-of-life: The recycling rate is calculated based on the WEEE guideline's recycling rate. It is assumed that the remaining product waste materials are disposed of in landfills. Processes such as mechanical destruction, separation, and transportation of end-of-life materials are also included in the scope of the assessment.