## **Product Carbon Footprint**

## Lenovo

LOQ Tower 17IA10

Machine Types: 91AX,91AY

Device Type: Desktop Computer

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Lenovo values our commitment to the environment. As part of that commitment, Lenovo performs a streamlined product lifecycle analysis in accordance with the IEC TR 62921 standard. This analysis allows the customer to estimate the carbon footprint of their product. The carbon footprint is the total green-house gases emitted by the product over its lifespan reported as global warming potential for 100-year time horizon (GWP-100) in units of CO<sub>2</sub> equivalents

Estimated carbon footprint of the: LOQ Tower 17IA10

## 475kg CO<sub>2</sub>e

± 130 kg CO<sub>2</sub>e Standard Deviation

This estimate uses the assumptions from the table below (Based on EU use location. U.S. estimates below):

Product Weight (kg)	6.70	Product Form Factor	Tower	Assembly Location	China
Product Lifetime (years)	4	Yearly Typical Energy Use (kWh)	65.5	Use Location	EU

Product Carbon Footprinting (PCF) is calculated using PAIA, a globally-accepted methodology to streamline the PCF process. The PAIA tool conforms with IEC 62921 and produces a End of Life reasonable estimate of Greenhouse Gases resulting from the 1.2% product's lifecycle; Manufacturing (from raw material extraction to production and packaging), Transport (From **Power Supply** 38.6% manufacturing site to use location), Use (typical energy use over the life of the product), and End-of-life. Communicating SSD Manufacturing these GHG levels through quantitative estimates can result in a 2.6% 76.6% level of uncertainty. This uncertainty is largely due to data Mainboard (and sourcing, modeling assumptions, and also to different other boards) 26.6% characterization factors used to translate the environmental Packaging emissions into environmental impacts. Lenovo addresses that 0.8% uncertainty by reporting not only the mean GHG number, but the standard deviation and 5th/95th percentile values. Due to this uncertainty, it is not useful to compare the PCF result between products or across manufacturers. Lenovo also reports both the EU and US totals for transparency. For more This pie chart shows the percentage contribution of the mean value for each element (Production, detailed information, go to www.lenovo.com/pcf\_strategy. Transport, Use, and End-of-Life) of the analysis for the full life cycle CO2e impacts of the product.

Below is a breakout of the carbon emissions of this product by both lifecycle stage (raw material extraction through product end-of-life) and greenhouse gases resulting from the manufacture of major components:

Mean (EU):	475	5th Percentile (EU):	256	Mean (US):	544
Standard Deviation (EU):	130	95th Percentile (EU):	1154	Standard Deviation (US):	114