

# Product Carbon Footprint

## ThinkPad X1 Carbon Gen 12

Machine Types: 21KC,21KD

Device Type: Notebook



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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: **ThinkPad X1 Carbon Gen 12**

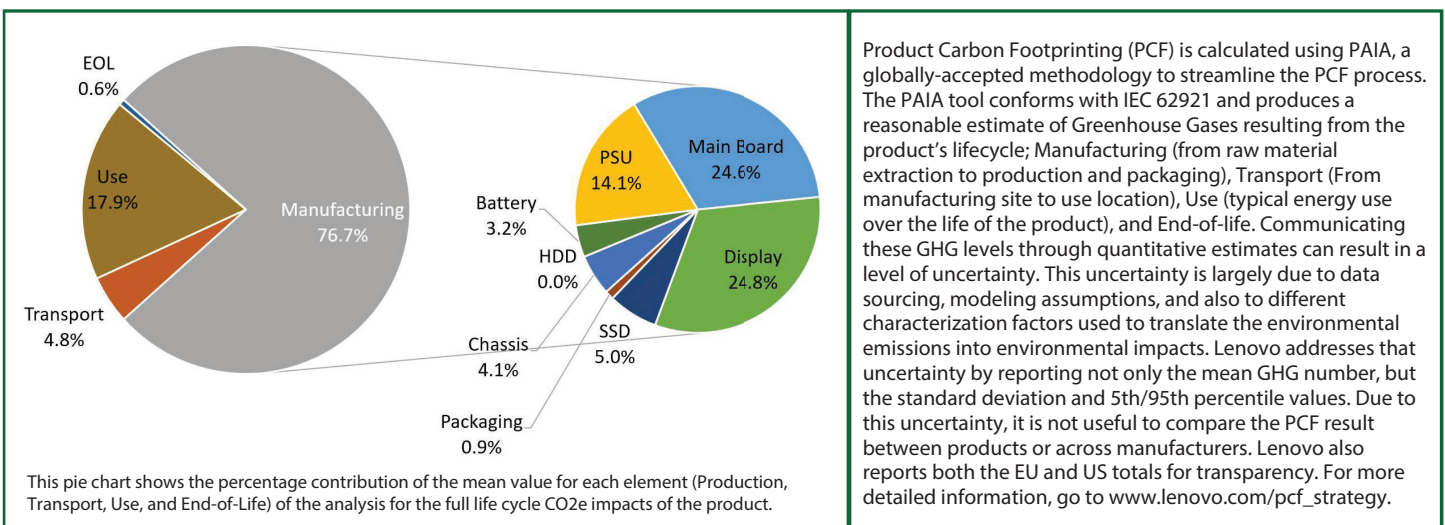
**191 kg CO<sub>2</sub>e**  
Mean Value

**± 31 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)	<b>1.09</b>	Product Screen Size (inches)	<b>14</b>	Assembly Location	<b>CN</b>
Product Lifetime (years)	<b>4</b>	Yearly Typical Energy Use (kWh)	<b>17.48</b>	Use Location	<b>EU</b>

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):	<b>191</b>	5th Percentile (EU):	<b>113</b>	Mean (US):	<b>186</b>
Standard Deviation (EU):	<b>31</b>	95th Percentile (EU):	<b>339</b>	Standard Deviation (US):	<b>23</b>