Report produced May 26, 2025

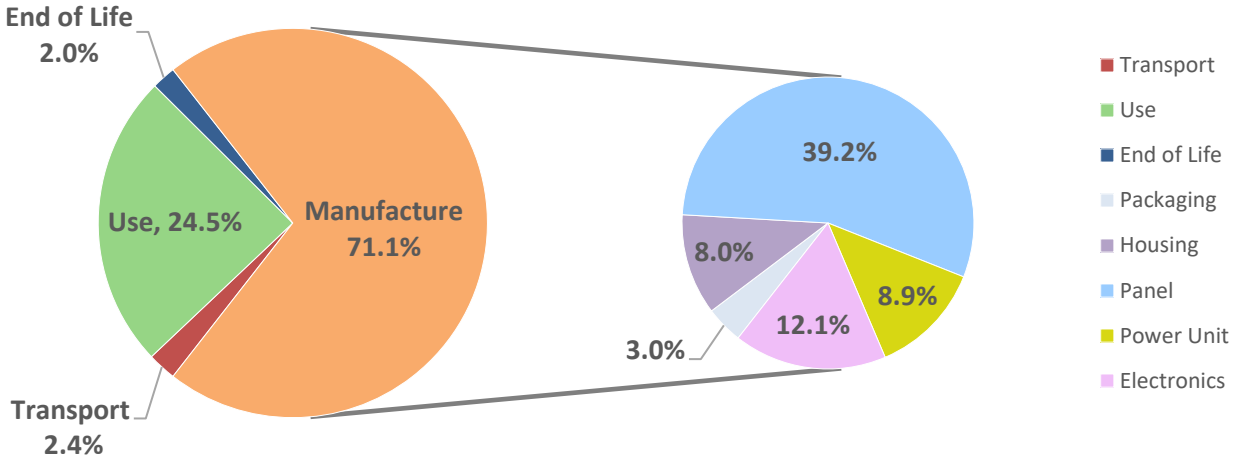
BenQ Product Carbon Footprint (PCF)

ST5504

Estimated Carbon Footprint

653 $kgCO_2e$ ± 189 $kgCO_2e$

BenQ Corporation is committed to applying green product design to reduce environmental impact and minimize harm to ecosystems. Through proactive sustainable design and innovation, the company aims to reduce its carbon footprint and create products that meet user expectations while being more environmentally friendly.



Note 1. BenQ uses PAIA (Product Attribute to Impact Algorithm method) to perform its product carbon footprint calculation PAIA, developed by the Massachusetts Institute of Technology's Materials Systems Laboratory and partners, meets IEC TR 62921 and is a robust streamlined LCA methodology.

Note 2. All estimates of environmental impact and/or carbon footprint are uncertain. For this product, the carbon footprint estimate spans from 345 kg of CO2e at the 5th percentile to 1679 kg of CO2e at the 95th percentile, capturing the inherent uncertainty. That estimate has a mean of 653 kg of CO2e and standard deviation of 189 kg of CO2e.

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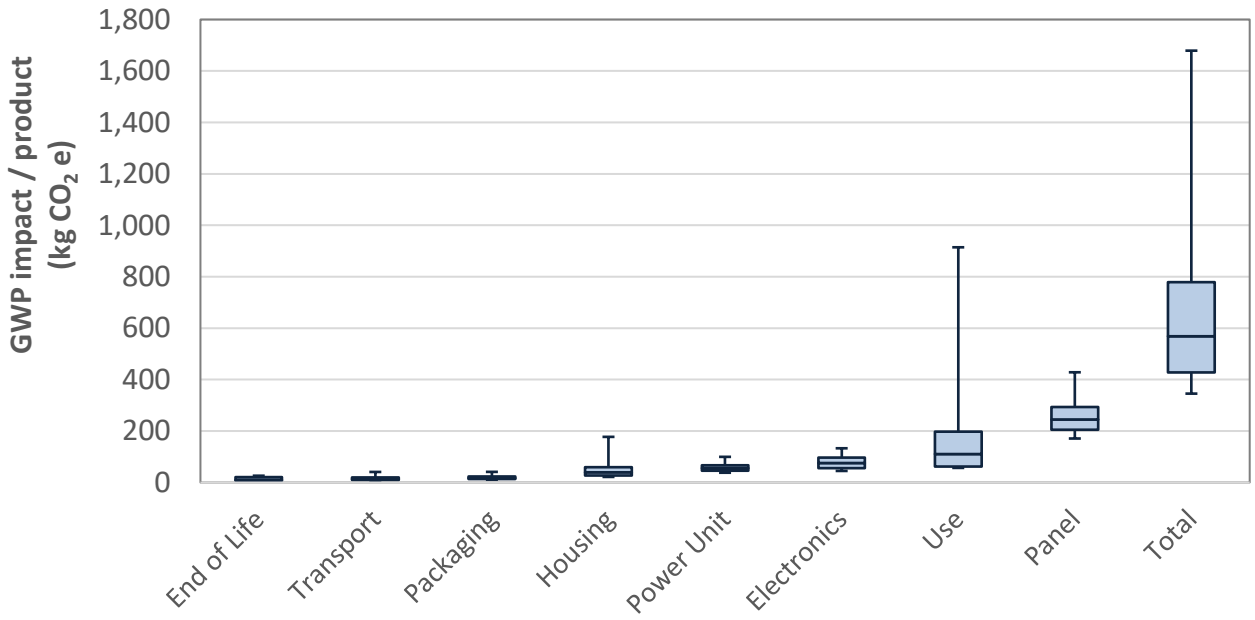
To ensure transparency, the following box chart is provided to illustrate the uncertainty using the streamlined calculator.



Assumptions for this carbon footprint calculation:

Category	Element	Input	Unit
Product Specifics	Screen size	55	inch
	Resolution	3840 x 2160	
	Product Weight	12	kg
	Product Lifetime	6.6	years
	Power Consumption (Yearly TEC)	106.62	kWh
Transportation from Assembly to Customer	To country of use : by ship	1	fraction
	In country of use : by truck	1	fraction
Location	Assembly Location	China	
	Use Location	Europe	

The carbon footprint presented here relies on BenQ's own assumptions and estimates regarding the current state of the product life cycle. Therefore, it is not suitable for comparing the carbon impact between different brands' data without understanding the differences in their assumptions and methodologies.

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