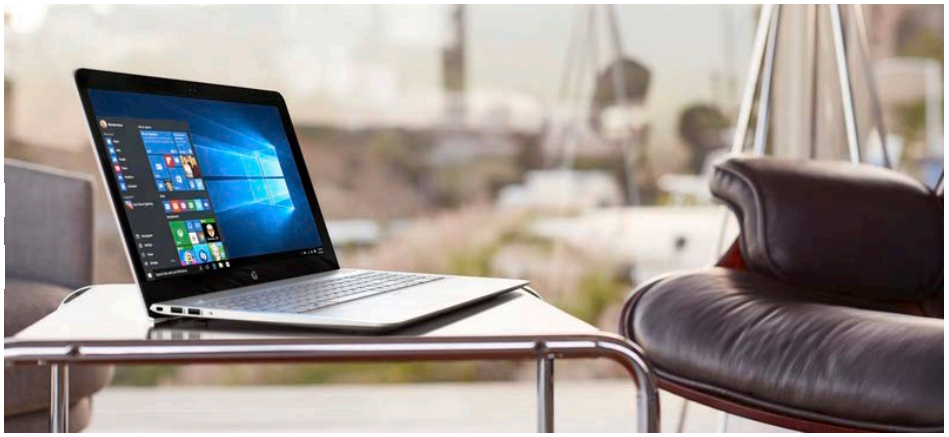
Product carbon footprint

HP ProBook 455R G6 Notebook PC

Estimated impact

195 - 340† kgCO_2e

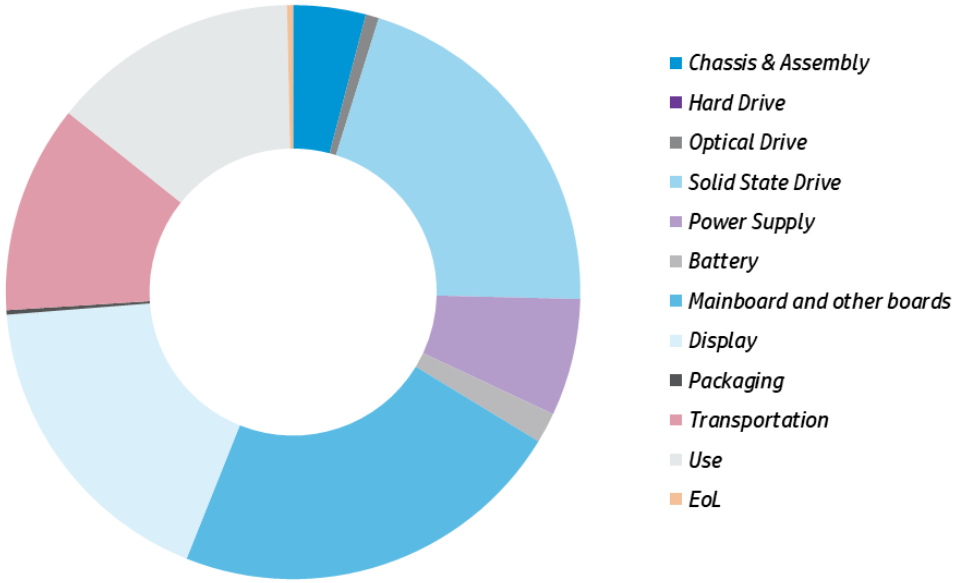
†All estimates of carbon footprint are uncertain. HP Inc reports the 5th and 95th percentile of the carbon footprint estimate to reflect that uncertainty. For this product, that estimate has a mean of 260 kg of CO2-e and standard deviation of 45 kg of CO2-e. Other organizations might report this value as 260 +/- 45 kg of CO2-e.



As part of HP's commitment to continually improve the environmental performance of our products, we are focusing on better understanding the impacts that occur at different stages of the product life cycle through the use of product carbon footprinting (PCF). A product carbon footprint is defined as the total amount of greenhouse gases emitted directly and indirectly by a product over its lifetime. It includes emissions from materials extraction, manufacturing, distribution, use, and end-of-life management.

The information provided here was calculated using the PAIA tool†† and represents the lifecycle carbon footprint of an industry-average notebook computer with the specifications listed in Under Assumptions on Page 2.

GHG emissions [percentage of total]

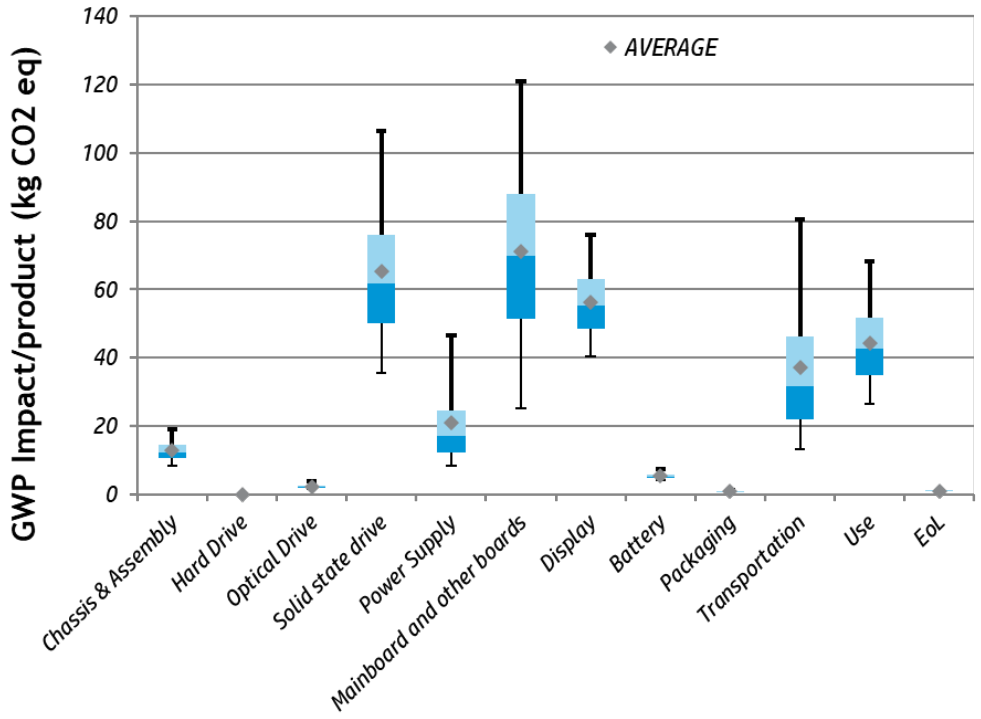


The plot below shows the uncertainty associated with the various elements of the product carbon footprint. Uncertainty in product carbon footprinting stems from differences in the data, assumptions, and methodology used. Since uncertainty can be quite large, results should not be compared with those of other products, but rather are intended to inform product design and life cycle management decisions.

Disclaimer

††This calculation was done using the Product Attribute to Impact Algorithm (PAIA) model, December 2016 Notebook Version, copyright by the ICT Benchmarking collaboration, which includes the Massachusetts Institute of Technology's Materials Systems Laboratory and partners. PAIA estimates the carbon footprint of different PC products, including uncertainty of the result. Uncertainty is included in order to provide our customers with greater transparency in estimation results. The PAIA tool is not released for use by the public. Results shown here are subject to change as the tool is updated.

GHG emissions [kg CO2 eq]



Assumptions

Lifetime of product	4 years
Use location	Worldwide
Use energy demand (Yearly TEC)	21.2 kWh
Product weight	2.2 kg
Screen size	15.6 inches
Final manufacturing location	China

Additional product environmental performance

Additional information about HP's carbon footprinting program can be found in HP's yearly Sustainability Report, which is available on the HP Sustainability website. The site also contains IT Eco Declarations, which provide product-specific environmental information, as well as information on HP's product recycling programs.

Learn more at
HP's Sustainability Website