Estimated impact

145 - 280† kgCO₂e

†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 210 kg of CO₂-e and standard deviation of 45 kg of CO₂-e. Other organizations might report this value 210+/−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]

- Chassis & Assembly
- Hard Drive
- Optical Drive
- Solid State Drive
- Power Supply
- Battery
- Mainboard and other boards
- Display
- Packaging
- Transportation
- Use
- EoL
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.

**Assumptions**

- **Lifetime of product**: 4 years
- **Use location**: Worldwide
- **Use energy demand (Yearly TEC)**: 16.4 kWh
- **Product weight**: 1.4 kg
- **Screen size**: 13.3 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](https://www.hp.com/sustainability)