



Google Pixel Watch 2  
Product environmental report



## Environmental sustainability at Google

At Google, operating in an environmentally sustainable way has been a core value from the beginning. As our business has evolved to include the manufacturing of electronic products, we've continually expanded our efforts to improve each product's environmental performance and minimize Google's impact on the world around us.

This report details the environmental performance of the Pixel Watch 2 over its full life cycle, from design and manufacturing through usage and recycling.

## Product highlights

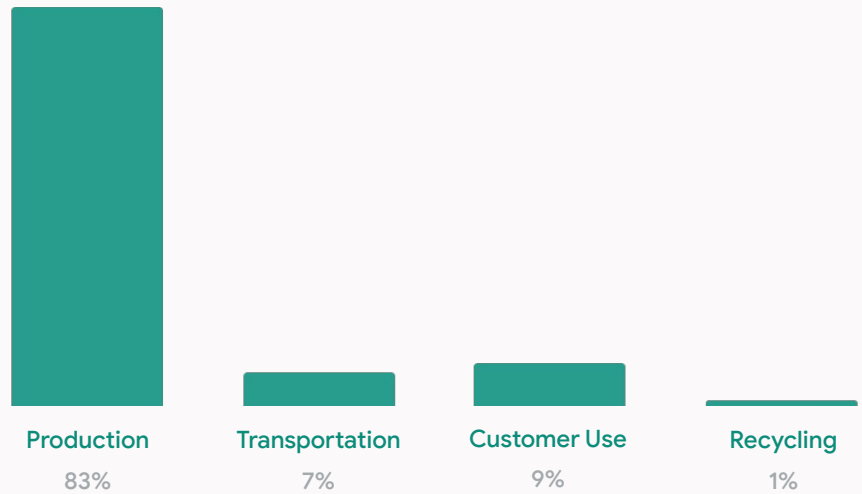
The Pixel Watch 2 is designed with the following key features to help reduce its environmental impact:

- ✓ PVC-free<sup>1</sup>
- ✓ Brominated Flame Retardant (BFR)-free<sup>1</sup>
- ♻️ Designed with recycled aluminum to reduce its carbon footprint<sup>2</sup>
- ♻️ 99% plastic-free packaging<sup>3</sup>

## Greenhouse Gas (GHG) emissions

The production, transportation, use, and recycling of electronic products generate GHG emissions that can contribute to rising global temperatures. Google conducted a life cycle assessment on this product to identify materials and processes that contribute to GHG emissions, with the goal of minimizing these emissions.

Estimated GHG emissions for Pixel Watch 2 assuming three years of use:<sup>4</sup> 21 kg CO<sub>2</sub>e



## Energy efficiency

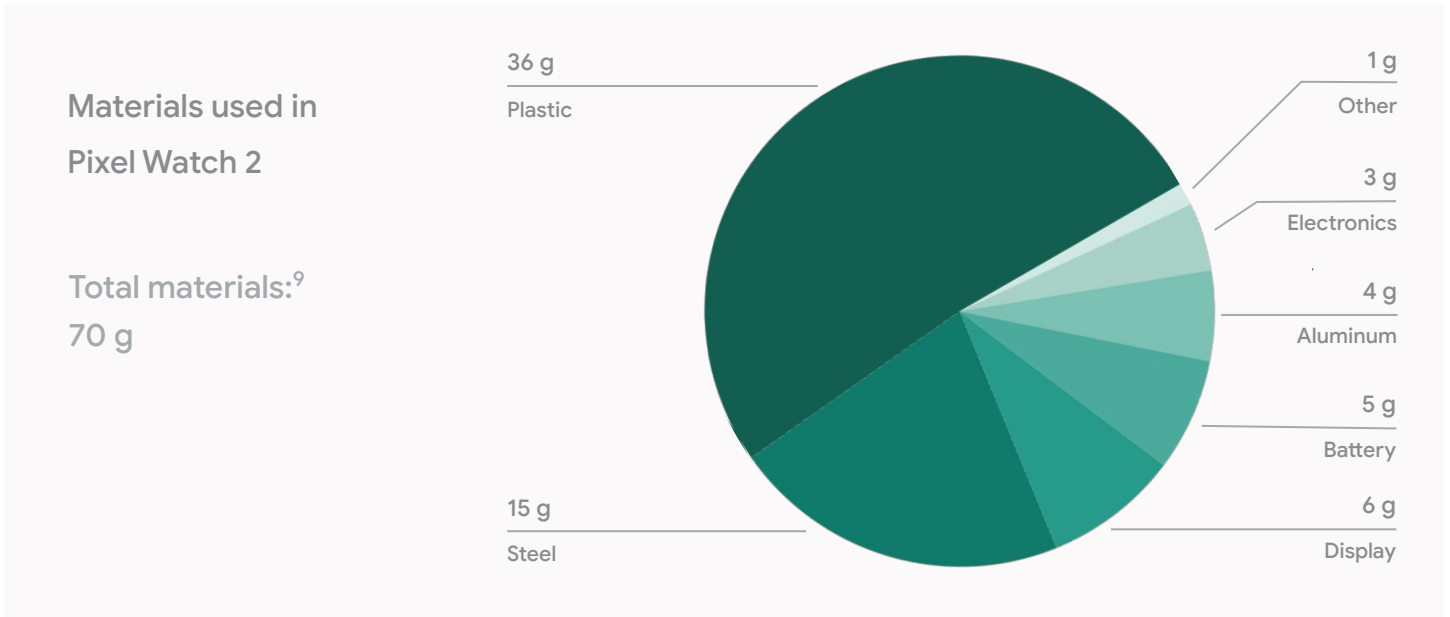
The Pixel Watch 2 incorporates power-management software to maximize battery-charging efficiency and extend battery life during use.

### Energy efficiency of Pixel Watch 2

	115 V, 60 Hz	230 V, 50 Hz
Standby mode (battery maintenance mode) <sup>5</sup>	0.17 W	0.19 W
Annual energy use estimate <sup>6</sup>	2 kWh	2 kWh
Annual cost of energy estimate	US\$0.32 <sup>7</sup>	€0.57 <sup>8</sup>

## Material use

Pixel Watch 2 is designed to be light and compact. Minimizing the size and weight of the Pixel Watch 2 allows materials to be used more efficiently, thereby reducing the energy consumed during production and shipping as well as minimizing the amount of packaging.



## Recycled materials

- 🔄 Housing is made with 100% recycled aluminum<sup>10</sup>
- 🔄 Pixel Watch 2 docking magnets are made with 100% recycled rare earth elements<sup>11</sup>

## Battery

- ✅ Lithium-ion

## Restricted substances

Historically, many electronic devices contained materials such as lead, mercury, cadmium, and brominated flame retardants that pose environmental and health risks. We designed Pixel Watch 2 to meet global regulations that restrict harmful substances, including the following:

- ✓ European RoHS Directive restrictions on lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), and four different phthalates (DEHP, BBP, DBP, DIBP)
- ✓ European Battery Directive restrictions on lead, mercury, and cadmium in batteries
- ✓ European Packaging Directive restrictions on lead, mercury, cadmium, and hexavalent chromium in packaging

## Voluntary substance restrictions

Pixel Watch 2 also meets the following voluntary substance restrictions:<sup>12</sup>

- ✓ PVC-free<sup>1</sup>
- ✓ Brominated Flame Retardant (BFR)-free<sup>1</sup>

## Packaging

Packaging for the Pixel Watch 2 uses 99% plastic-free materials.<sup>3</sup> We have designed the Pixel Watch 2 packaging to minimize its weight and volume, which helps conserve natural resources and allows more devices to be transported in a single shipping container.

## Ethical sourcing

Google and its subsidiaries are committed to ensuring that working conditions in our operations and in our supply chains are safe, that all workers are treated with respect and dignity, and that business operations are environmentally responsible and ethically conducted. Learn more about our expectations for manufacturing partners in the [Google Supplier Code of Conduct](#), our [2022 Responsible Supply Chain Report](#), and our [Conflict Minerals Policy](#).

## Learn more

For more information about our environmental sustainability initiatives— including case studies, white papers, and blogs—please see our [Sustainability website](#) and our [2023 Environmental Report](#).

Learn how to recycle your used device in the [Google Store Help](#) section of our website.

## Endnotes

1. Google defines its restrictions on harmful substances in the [Google Restricted Substances Specification](#).
2. Carbon footprint reduction claim based on third-party verified life cycle assessment performed in 2023. Recycled aluminum is at least 3% of product based on weight.
3. Based on retail packaging (excluding adhesive materials) as shipped by Google. To meet the request of some clients, plastic stickers are applied to some packaging variations.
4. GHG emissions estimates are calculated in accordance with ISO 14040 and ISO 14044 requirements and guidelines for conducting life cycle assessments, and include the production, transportation, use, and recycling of the product, in-box accessories, and packaging.
5. Power measured with device connected to LTE and WiFi network in standby mode with fully charged battery and attached to the power adapter using the in-box cable. Tested in accordance with the [U.S. DOE Uniform Test Method for Measuring the Energy Consumption of Battery Chargers](#).
6. Based on average charging of previous generation devices. Actual energy consumption will vary by user.
7. The average residential cost of energy for U.S. households is \$0.16 per kWh (source: [U.S. Energy Information Agency Jun 2023 report](#)).
8. The average household cost of energy for consumers in the EU-27 was €0.28 per kWh in the second half of 2022 (source: [Eurostat Statistics Explained](#)).
9. Product material masses are for the Pixel Watch 2 and in-box bands only, excluding packaging and accessories. For the U.S. configuration, an additional 22 g of electronic accessories can be included in-box.
10. Recycled aluminum is at least 3% of product based on weight.
11. Magnets contain 100% recycled rare earth elements, but the majority of the magnet weight consists of other materials.
12. Google continues to restrict arsenic content in glass, mercury in displays, and heavy metals (lead, cadmium, and mercury) in batteries as listed in [Google's Restricted Substances Specification](#).