

# Focusing on sustainability in Portrait™ Mobile monitoring solution



GE HealthCare

# Our commitment to the environment

GE HealthCare recognizes the relationship between a healthy environment and healthy people. Climate change affects the social determinants of health, including clean air, safe drinking water, sufficient food, and secure shelter. It is our responsibility to intensify our actions to further reduce our emissions. GE HealthCare has set two greenhouse gas (GHG) emissions reduction goals:

- To reduce our operational emissions (Scope 1 and 2) by 42%\* and our Scope 3 emissions from purchased goods and services, upstream transportation and distribution, business travel, and use of sold products by 25% by 2030\*\*.
- By 2050, to achieve net zero emissions.

## Designing for the sustainability

### Following industry standards

To achieve GE HealthCare's goals for emissions reductions, **environmental considerations are a key component to product design**, not an afterthought. In designing Portrait Mobile, a wireless, wearable, continuous monitoring solution, GE HealthCare engineers looked at technologies and approaches to reduce the environmental footprint of the solution without compromising the patient and clinician benefits. GE HealthCare production and service fulfill ISO 14001.

\* From a 2022 baseline year.

\*\* Includes purchased goods and services, upstream transportation and distribution, business travel, and use of sold products from a 2022 baseline year.

### Making it more power efficient

More than half of the healthcare sectors climate footprint, approximately 53 percent, is attributable to energy use through the product lifecycle.<sup>1</sup> This reality was one of the driving forces for GE HealthCare engineers seeking to reduce the power consumption of the Portrait Mobile solution. By using state-of-the-art **low-power semiconductors**, combined with intuitive UI designs such as auto-dimming of the patient monitor screen and a **power reducing black background** visual layout, battery life was increased for clinical users while simultaneously reducing the CO<sub>2</sub>e footprint over the system's life.

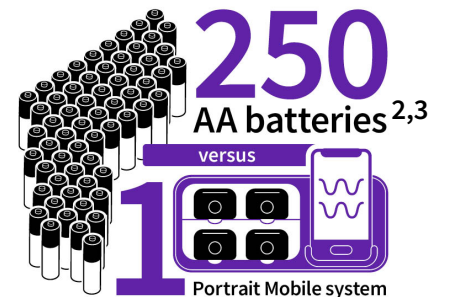
### Optimizing telemetry to reduce landfill waste

Traditional cardiac telemetry monitors rely on single-use disposable batteries, contributing to landfill waste. Yet according to the American Heart Association, 29% of patients on cardiac telemetry monitors do not meet the guidelines for ECG-based telemetry.

Fortunately, respiratory rate monitoring, like Portrait Mobile's TruSignal RRdv™ technology, has been shown to be a leading indicator for patient deterioration in non-cardiac patients. And as an added benefit, Portrait Mobile's design incorporates rechargeable batteries, significantly reducing landfill waste.

By shifting non-cardiac patients on to Portrait Mobile, GE HealthCare helps eliminate thousands of AA batteries from being sent to landfills annually.<sup>2</sup>

Reduces  
↓ **1,165 kgs**  
of batteries in  
the landfill every  
**three years<sup>2</sup>**



### Optimizing hospital networks

Portrait Mobile leverages a hospital's existing Wi-Fi infrastructure and access points versus requiring the manufacturing and installation of dedicated access points, such as those in the 600 MHz and 1.4 GHz spectrum for traditional mobile monitoring systems. The result of this is not only a **less expensive deployment** for hospital systems, but also a **reduction in CO<sub>2</sub>e and waste** through the avoidance of duplicative equipment.

### CO<sub>2</sub>e: Comparing the Portrait Mobile system to the Apple iPhone

While there are numerous elements of Portrait Mobile system's environmental impact, it may be easiest to compare the CO<sub>2</sub>e with that of a commonly recognizable consumer product such as the Apple iPhone® mobile digital device.

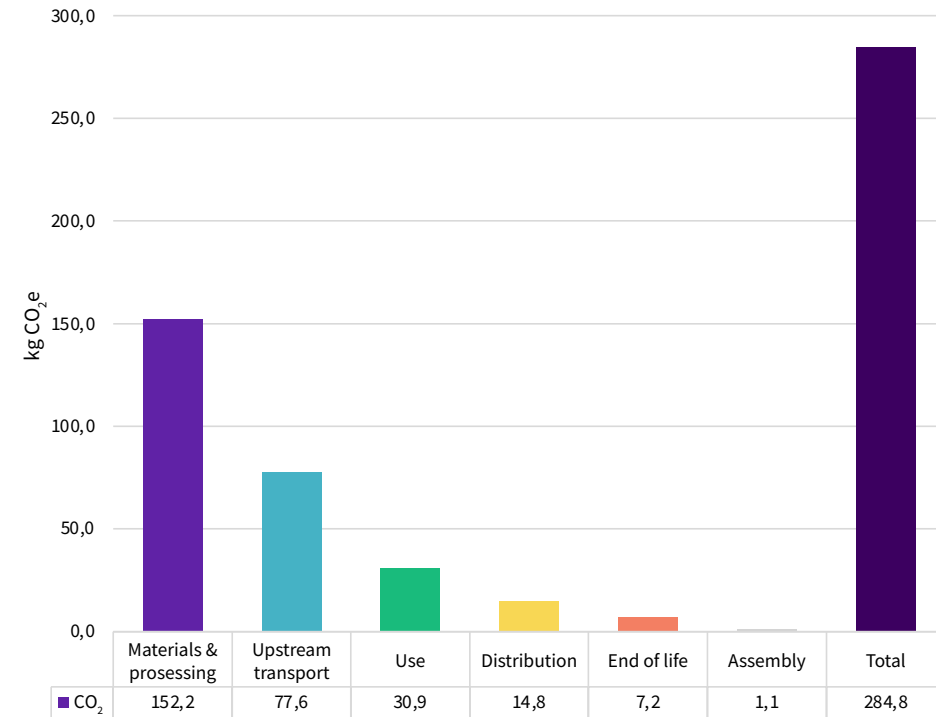
ScientiaMobile, a software company that tracks global smartphone usage, reports that the iPhone 11 is the most used phone globally.<sup>4</sup> When comparing the CO<sub>2</sub>e for Portrait Mobile and the iPhone 11, Portrait Mobile has a CO<sub>2</sub>e of 284.8 vs. the iPhone 11 of 77<sup>5</sup>. Thus the use of Portrait Mobile as a dedicated medical device for in-hospital use has the environmental footprint a little over 3.5 times that of a consumer's use of the iPhone.

Alternatively, continuous use of Portrait Mobile throughout its lifecycle is the equivalent of driving an average gasoline powered passenger vehicle 730 miles (1175 km).<sup>6</sup>



### Environmental impacts of materials & processing

Lifetime CO<sub>2</sub>e: Portrait Mobile Solution



1. Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org).
2. Battery waste reduction based on 365 days of monitoring \* 90% utilization \* 24hrs / 95hrs of battery life avg = 82.98 battery changes \* 2 AA batt \* 48 beds in unit = 7,966 batteries per year.
3. Single AA battery weight of 24.7 g (0.9 oz). [https://www.procell.com/wp-content/uploads/2023/02/Datasheet\\_Constant\\_AA\\_PC1500.pdf](https://www.procell.com/wp-content/uploads/2023/02/Datasheet_Constant_AA_PC1500.pdf)
4. <https://www.scientiamobile.com/movr-mobile-overview-report/>
5. iPhone 11 with 128GB storage. [https://www.apple.com/environment/pdf/products/iphone/iPhone\\_11\\_PER\\_sept2019.pdf](https://www.apple.com/environment/pdf/products/iphone/iPhone_11_PER_sept2019.pdf)
6. <https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#miles>



# Creating a healthy world to help enable better patient outcomes.

[GEHealthCare.com/about/sustainability](https://GEHealthCare.com/about/sustainability)

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