Sustainable women’s health ultrasound solutions for a resilient tomorrow

Voluson™ P8

Creating a more sustainable future requires us to care for the planet and its inhabitants.

It is essential that we continue to drive progress toward early, precise, and accessible diagnosis and treatment of more patients. For the planet, it is critical that we do so with a reduced impact on precious and rare resources that are imperative to life. We believe that the advancement of precision health, greater digitization of healthcare, and increased access to quality care are fundamental to accomplishing this goal.

We support carbon policies that reduce greenhouse gas emissions and promote sustainable development. We are committed to achieving net zero by 2050 and are part of the UN-backed “Race to Zero,” with a goal of reducing emissions based on the Paris Agreement. We’ve also set a public goal to achieve a 50% reduction in our own operational emissions by 2030. As a result of these efforts, we want to enable a more sustainable health system by addressing not only the environmental impacts of our products but also the challenges healthcare professionals and their patients face with resilient, digital options.

We are committed to achieving **net zero** emissions by 2050.

We’ve set a public goal of a **50% reduction** in our own operational emissions by 2030.

We deliver sustainable, intelligently efficient solutions for a resilient tomorrow.

Building a healthier world to help improve access to care and enable better patient outcomes.

Voluson P8 helps create a resilient tomorrow.

The Voluson P8 ultrasound system, along with its services, helps ensure that women's health professionals and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

Reducing environmental impact

- Voluson P8 ultrasound systems are designed to be refurbished, reused, or recycled at the end of their product life to minimize unnecessary waste.

Improving outcomes

- AI-based measurement tools reduce exam time and increase measurement accuracy.
- Ergonomic design improves the user experience and reduces strain on clinicians and system operators.
- Voluson Core Architecture enables precise clinical decisions through exceptional image quality across a wide range of women's health applications.

Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.[1] As a result, we have strengthened our commitment to environmentally conscious design and sustainable practices across our product manufacturing, sourcing, distribution, installation, and service operations. This includes improving energy efficiency, optimizing the use of limited or rare materials, providing digitally enabled and remote predictive and maintenance service throughout the product lifespan, and offering refurbishment and recycling options at the end of product life.

GE Healthcare environmental management system is ISO 14001 certified.	Our production and service operations align to ISO 14001 standards.
We're committed to environmental product design.	The Voluson P8 conforms with IEC60601-1-9.

[1] Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org)

Materials

GE Healthcare reviews the environmental aspects of the material supply used within our products to increase recyclability and decrease the use of hazardous substances, when possible.

Recyclable	Approximately 57% of the basic Voluson P8 consoles consist of raw materials and are therefore recyclable.
	Raw materials: Steel: 29.5 kg / 43.4% Aluminum: 9.85 kg / 14.5% Copper: 0.89 kg / 0.94 %
	Voluson P8 ultrasound console packaging: Cardboard consists of recycled content and can be recycled as well. PE foam can be recycled.
	We're committed to high recyclability of our products and reuse when possible.
Reduce the use of hazardous substances	EU RoHS directive 2011/65/EU
	REACH (EC) 1907–2006
	All Voluson consoles comply with the European RoHS Directive 2011/65/EU including Commission Delegated Directive (EU)2015/863.
	All Voluson consoles comply with the REACH Regulation (EC) No 1907/2006.

Packaging and distribution

GE Healthcare imaging equipment has a robust and multi-sourced supply chain for systems and spare parts across all product portfolios.

Improved packaging

Equipment instructions are provided to minimize the environmental impact for disposal or recycling.

Product transportation

Air Transport 65%
Truck Transport 35%

35% product transportation utilizes low environmental impact modes

Manufacturing

Through our environmental reviews, we also focus on implementing renewable energy and reducing waste.

Reducing electricity

The Voluson P8 is manufactured in Seoul, Korea. The facility uses 100% renewable district heating for part of the facility; the rest is a combination of renewable and nonrenewable energy.

In 2021, the total consumption was divided as follows:

- 95,450 kW·h fully renewable
- 1,368,532 kW·h partly renewable, partly non-renewable, depending on vendor capacity

Voluson P8

- Electricity: 70.35 kW
- Gas: 25.64 MJ (7.12 kW)
- Water: 0.239 m^3

Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact.

Ergonomically designed

Reduce staff burden

Operators and clinicians can adjust the Voluson P8 ultrasound system for comfort and ease of use. The Voluson P8 is adjustable in two dimensions:

Lift up-down: 810 mm or 910 mm
Optional extension: 100 mm

Cable hooks are available for integrated cable management of ultrasound probes.

Handheld-conforming shapes of ultrasound probes have been ergonomically designed to:

- Handle and manipulate with ease.
- Connect to the system with one hand.
- Be lightweight and balanced.
- Have rounded edges and smooth surfaces.

The foot switch, available as an option, is used for comfortable system control when no hand is free.

Product utilization (Cont.)

Guidance for product utilization	Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation.
Reduce energy consumption during use	A screen saver can be set to appear after a definable period of inactivity. When in Auto Scan Stop, freeze mode is activated after five minutes of inactivity. After an hour of inactivity, the system automatically activates freeze mode, even when Auto Scan Stop is not enabled. Standby mode uses 96.5% less energy than ready-to-scan mode and more than 97% less energy than scan mode. Off mode: 0 W Standby (no scan): 1.7 W Ready-to-scan: 93 W Scan mode: 118 W
Power consumption	There are zero direct carbon emissions at place of use.

End of product life

We are increasingly putting our retired products' materials back into the supply chain to maximize efficient use and minimize unnecessary waste. This circularity model enables our imaging products to extend their clinical impact through longer lifespans while reducing the environmental footprint. Additionally, we offer our customers partnered support for upgrades and services throughout a product's lifespan to maintain optimal performance and help drive better patient outcomes.

Our refurbishment programs involve an extensive inspection and testing process, designed to bring equipment back to its original certified manufacturing specifications. If the system is not suitable for refurbishment, eligible parts are harvested for reuse after quality and performance testing, while the rest are returned to dedicated recycling facilities.

Product utilization (Cont.)

Guidance	Equipment instructions are provided to minimize the environmental impact for disposal or recycling.
Upgradeable hardware and software options are provided as a solution to extend the product lifespan.	Upgrades are available for Voluson P8.
Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.	94–96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product.[2]
	Voluson P8 ultrasound system parts are eligible for assessment through the refurbishment program, in which they are assessed for refurbishment, harvesting, or recycling at the appropriate time in the lifespan.[2]
	100% of Voluson P8 ultrasound consoles are eligible for refurbishment.
Waste reduction	This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations.

[2] Products within ultrasound are eligible for refurbishment, although whether a system is refurbished versus harvested for parts or otherwise recycled or reused is dependent on the state of the system when GE Healthcare takes possession of it. Data on file.

Digitizing healthcare through transformative innovations for a resilient tomorrow

We are committed to investing in digital capabilities that help accelerate clinical decision making, optimize imaging operations, and drive efficiencies in exam workflows, all of which can improve patient outcomes. Enabling digital transformation will further enhance our predictive and maintenance service operations for the life of your products.

We are also dedicated to driving a more resilient and sustainable future in healthcare. Many factors, including the pandemic, climate-related weather disasters, and supply-chain issues amplified this need. Managing operations through these challenges requires resilience and perseverance.

Advancing clinical outcomes

Advanced applications and cutting-edge AI tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

Gain actionable clinical insights	Voluson P8 has several automation tools to help with the consistency and completeness of exams.
	Voluson P8 ultrasound system software updates and upgrades are available to customers via media.
	Voluson P8 utilizes automation applications to increase productivity, streamline workflows, minimize rework, and deliver the most personalized patient care possible.

Optimizing imaging operations

Our AI-based and advanced digital solutions are designed to increase efficiencies across the radiology spectrum without increasing the administrative and training burden on radiologists and technologists.

Increase productivity and consistency	iCenter™ analytics provides insights for hospital managers to improve operational performance, asset utilization, and asset performance.
Reduce downtime	GE Healthcare's predictive analytics tools reduce downtime, optimize workflow, and reduce service interventions. iCenter analytics tracks metrics and delivers data on equipment status, maintenance history, and performance to help reduce downtime. The remote service platform InSite™ connects you with a GE Online Service Engineer or Applications Support Engineer. It has remote diagnostics capability as well as the ability to request service. Request for Service via the InSite link. Available in some markets. Software updates may be available for download via media or eDelivery.
Cybersecurity	GE Healthcare's Design Engineering Privacy and Security (DEPS) process follows GDPR, HIPAA, NIST 800-53, NIST 800-30, ISO 27001, and NIST CSF requirements.

Enabling intelligent exam workflows

Intelligent automation features help drive consistency, enable fast, easy exams, and improve workflow with fewer resources, all while achieving similar or improved outcomes.

Reduce setup time	Users can easily access patient information from an external Worklist Server.
Reduce exam time	Applications, including SonoRenderlive and SonoBiometry, are designed to improve workflow and can substantially reduce keystrokes and analysis time leading to increased efficiency and shorter exams.
Cleanability	Our equipment is designed to be cleaned and disinfected easily. We continue to test and approve new cleaning and disinfecting agents. Visit *Cleaning.GEHealthcare.com* for updates. This includes validated cleaning and disinfection instructions for probes.

Building a healthy world to help enable better patient outcomes.

GE Healthcare is a member of COCIR, the European Trade Association representing the medical imaging, radiotherapy, health ICT, and electromedical industries.[3]

[3] *https://www.cocir.org/about-cocir/members.html*

Not all products or features are available in all geographies. Check with your local GE Healthcare representative for availability in your country.
Not all features are included in the standard system configuration. Check with your local GE Healthcare representative.

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