Sustainable ultrasound solutions for a resilient tomorrow

LOGIQ™ *e* Ultrasound

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.

Green
Using fewer resources for a healthier planet.

Digital
Transforming healthcare through innovation.

Resilience
Building flexibility and dependability across healthcare systems.

LOGIQ *e* helps create a resilient tomorrow.

Our ultrasound, LOGIQ *e*, and its services help ensure that clinical professionals and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

Reducing environmental impact

- The LOGIQ *e* systems are designed to be refurbished, reused, or recycled at the end of their product life to minimize unnecessary waste.

Improving outcomes

- High definition image quality for complex diagnosis and monitoring injuries and diseases

- Needle guidance for injections

- Portable and robust

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.	This product 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	We're committed to high recyclability of our products and reuse when possible.
	The LOGIQ *e* contains more than 56% recyclable aluminum and steel. Steel: 20% Aluminum: 36%
Reduce the use of hazardous substances	EU RoHS directive 2011/65/EU
	REACH (EC) 1907–2006
	Compliant to EU RoHS directive 2015/863/EU

Manufacturing

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

Reducing electricity

The LOGIQ e is manufactured in GE Healthcare's Wuxi, China, site, which has recently installed a rooftop solar system designed to generate 100M kW·h per year.

The Wuxi site features energy-efficient air conditioning and a smart energy management system which is designed to continuously reduce energy consumption by 90%.

Prior to the addition of the rooftop solar system, ultrasound manufacturing at the Wuxi manufacturing facility was 876,376 kW·h. The solar-generated energy should reduce that by about 18% or 100M kW·h per year.

Packaging

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

Improved packaging

Packaging material is recyclable and FSC certified.

More than 99% of LOGIQ e packaging material can be recycled, including:
Corrugated cardboard: 78%
PE plastics: 21%

Product transportation

Wuxi site
Air transport: 80%
Truck transport: 19%
Ocean transport :1%

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 to reduce staff burden

The LOGIQ e is portable:
- Basic system weight is less than 5.2 kg (5.16 kg), which is convenient and portable.
- There is a rear handle with rounded edges and smooth surfaces.
- System includes an optional cart.

The adjustable height with cart option is 0 to 290 mm.

Monitor position can be adjusted and inclined.

The 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.

An optional foot switch can be used for comfortable hands-free system control.

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 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	If Screen Saver is checked, the login window appears as a screen saver after a definable time of inactivity.
	With Auto Scan Stop, freeze mode is activated automatically after 2 minutes of inactivity. After 60 minutes of inactivity, the system automatically activates freeze mode, whether or not Auto Scan Stop is enabled.
Power consumption	Off mode: 1.4 W Ready-to-scan can mode: 80.5 W 24h energy consumption, measurements per COCIR guidance: Off mode: 0.0336 kW·h Ready-to-scan: 1.932 kW·h
Carbon emissions	There are zero direct carbon emissions at place of use.

Guidance for end of lifecycle

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 the LOGIQ *e*.

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]

Point-of-care 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 parts are harvestable for spare parts.

100% of LOGIQ *e* consoles are eligible for refurbishment.

Except the frame and base, all parts are reusable.

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 actually 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 tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

Gain actionable clinical insights

Remote update options via eDelivery are available in some markets.

Optimizing imaging operations

Our digital solutions are designed to increase efficiencies across the spectrum without increasing the administrative and training burden on healthcare clinicians.

Increase productivity and consistency	Simple consistency • Patient Follow-up Tool with Fusion helps ensure technical consistency from exam to exam to help prevent clinical conclusions from being clouded by inconsistent technique.
	Simple comparison • Sometimes comparing left-to-right or before-and-after is the key to clinical decision-making. Simultaneous Split Screen makes the comparison nearly automatic.
Reduce downtime	The LOGIQ e was built to help make you fast. The highly portable system easily moves from patient to patient.
	Portable and battery-operated, the LOGIQ e allows flexibility in moving from room to room.
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	The LOGIQ e is optimized for point-of-care applications.

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.