Sustainable general imaging ultrasound solutions for a resilient tomorrow

LOGIQ Fortis™ Ultrasound

Creating a more sustainable future requires we 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 Fortis helps create a resilient tomorrow.

Our General Imaging Ultrasound, LOGIQ Fortis 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 Fortis system is designed to be refurbished, reused, or recycled at the end of its 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.
- Our cSound™ platform delivers exceptional image quality.

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 Fortis contains more than 60% recyclable aluminum and steel. Steel: 27% Aluminum: 33%
Reduce the use of hazardous substances	EU RoHS directive 2011/65/EU
	REACH (EC) 1907-2006
	Compliant to EU RoHS directive 2015/863/EU
	The LOGIQ Fortis is manufactured in both Seoul, Korea and Wuxi, China. The Seoul facility uses 100% renewable district heating for part of the facility; the rest is a combination of renewable and non-renewable energy.

Packaging

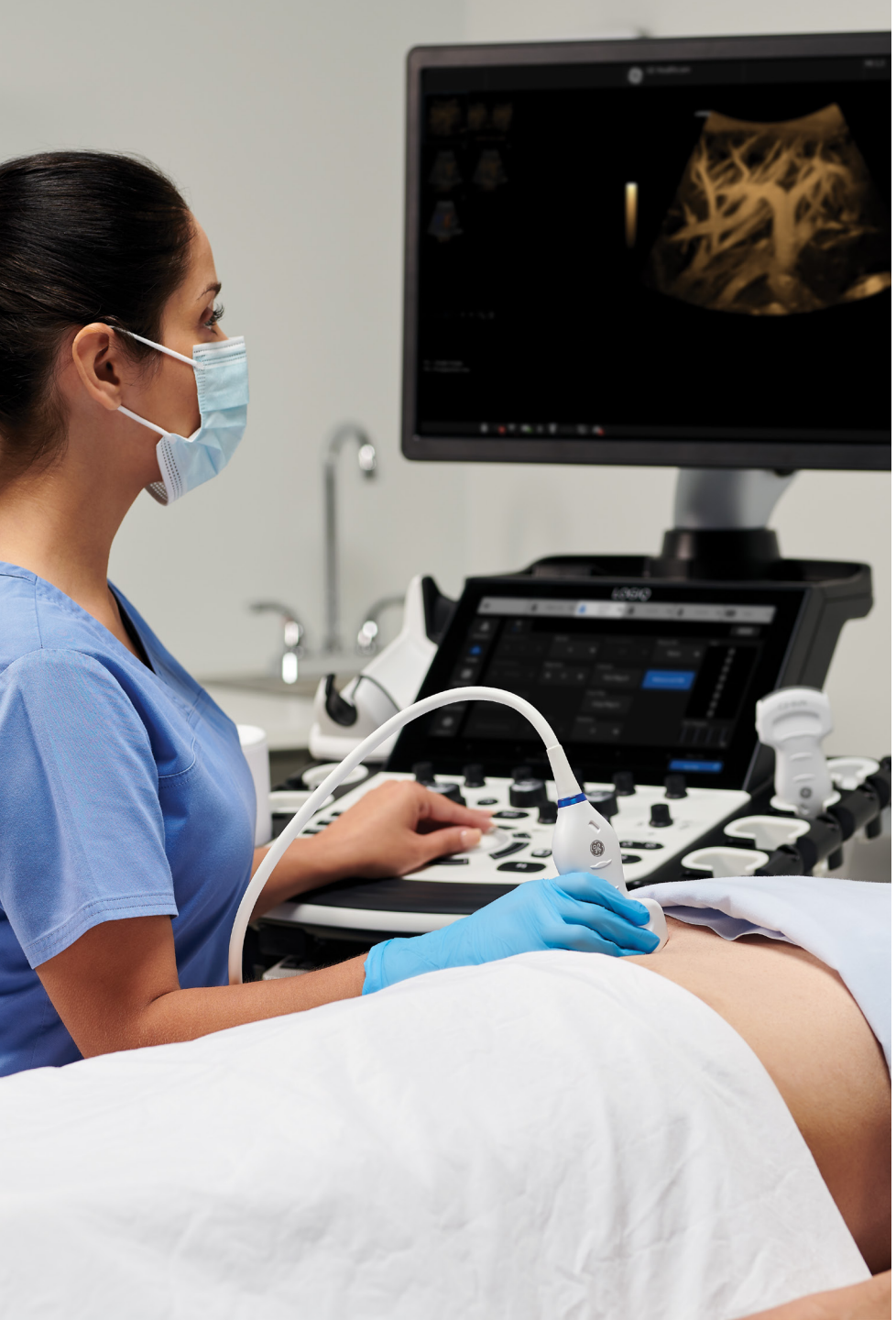
GE Healthcare imaging equipment has a robust and multi-sourced supply chain for systems and spare parts across all product portfolios.

Improved packaging	Packaging material is recyclable and FSC certified.

Manufacturing

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

Reducing electricity	Electricity: 93.80 kW Gas: 34.19 mJ (9.50 kW) Water: 0.3182
	LOGIQ Fortis is also manufactured in our Wuxi, China site which has recently installed a rooftop solar system designed to generate 100M kWh/year.
	The Wuxi site features energy-efficient air conditioning and a smart energy management system which is designed to continuously reduce energy consumption 90%.
	Prior to the addition of the rooftop solar system, ultrasound manufacturing at the Wuxi manufacturing facility was 876,376 kWh. The solar-generated energy should reduce that by about 18% or 100M kWh per year.



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 LOGIQ Fortis console for comfort and ease-of-use.

The LOGIQ Fortis can adjust in three directions:
- Keyboard Height: 610mm–990mm
- Keyboard Swivel: 60°

The LOGIQ Fortis also has an adjustable monitor:
- Horizontal: 350mm
- Vertical: 120mm
- Swivel: 90°

The probes have been ergonomically designed to handle and manipulate with ease, and an optional foot switch can be used for 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	The system is designed to auto freeze after time of inactivity determined by the user.
Power consumption	Off Mode: 0 W Standby (no scan): 8 W Ready-to-scan: 244 W Scan Mode: 356 W
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 Fortis.
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] General Imaging Ultrasound system parts are eligible for assessment for 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 Fortis 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 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 AI tools provide personalized data to drive actionable insights, helping healthcare professionals make fast, accurate clinical decisions for care pathways.

Gain actionable clinical insights	Breast Assistant, powered by Koios DS™, offers significant improvement in physician accuracy. • Improved in sensitivity and specificity for 73% of readers. • Potential reduction in benign biopsies up to 31%. • Detected up to an additional 6 cancers per 100 presented. Available in some markets.
Keep your imaging equipment up to date with advanced clinical applications	LOGIQ Fortis is designed to download software updates when they are available using InSite™. Software download monitors, notifies, delivers and installs available system software updates. Remote update options via eDelivery are available in some markets.

Advancing clinical outcomes (Cont.)

Help improve patient outcomes with improved image quality

Our cSound platform uses advanced software image reconstruction and state-of-the-art graphics technology to deliver exceptional image quality on the LOGIQ Fortis. Powerful XDclear™ high fidelity and broad bandwidth transducers produce high resolution images whether scanning superficial or deep targets.

Drive advancements of precision health

Next generation AI-powered tools drive results and efficiency:

- Auto Lesion automatically traces lesion boundaries and generates two-dimensional measurements with just a few keystrokes.
- Auto Doppler Assistant analyzes the location and direction of vessels in an image and then automatically adjusts the color box and angle resulting in greater than 20% time savings and greater than 50% key stroke reduction.

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.
	LOGIQ Fortis provides the ability to perform remote viewing of images without compression.
	Scan Assistant provides up to 37% exam time savings.
Reduce downtime	GE Healthcare's predictive analytics tools will 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.

Optimizing imaging operations (Cont.)

Reduce downtime	Software updates are available for download via eDelivery.
	Digital Expert offers users of LOGIQ Fortis the ability to collaborate with remote experts by audio, video, chat, and screen-share. Using a mobile tablet connected directly to your ultrasound equipment, Digital Expert provides users the ability to interact with peers at various locations to get support before, after, or even during an exam.
	InSite allows GE to deliver remote diagnostics capability. InSite is your direct link with a GE Online Service Engineer or Applications Support Engineer, or a Request for Service via the InSite link. Available in some markets.
	Tricefy is a cloud based image viewer and a platform to archive, collaborate and share.
Cybersecurity	GE Healthcare's Design Engineering Privacy and Security (DEPS) process follows GDPR, HIPAA, NIST 800-53, NIST 800-30, and NIST CSF requirements.

Enabling intelligent exam workflows

Intelligent automation features help to 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.
	A customizable touch panel allows the user to organize the display in the most efficient way for them.
Reduce exam time	A suite of applications including Auto Doppler Assist reduces exam time (>20%) and key strokes (>50%) and Scan Assistant reduces exam time by 37%.
Ease of use	EZ Imaging requires 38% fewer keystrokes than a traditional user interface.
	Hepatic Assistant combines the measurements of 2D Shear Wave Elastography and Ultrasound-guided Attenuation Parameter in a one-click smooth workflow.
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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