

Focusing on sustainability in computed tomography



Revolution™ Vibe



GE HealthCare

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 medicine, 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. GE HealthCare has a goal to achieve net zero by 2050. An interim goal is to reduce our operational emissions (Scope 1 and 2) by 42%¹ and our Scope 3 emissions from purchased goods and services, upstream transportation and distribution, business travel, and use of sold products by 25%² by 2030 compared to a 2022 baseline. In 2024, we received validation on our updated goals from the Science Based Targets initiative (SBTi), a group of visionary corporate leaders taking ambitious climate action. 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 solutions.



We have a goal to achieve net zero emissions by 2050.

We've set interim goals to reduce Scope 1 and 2 emissions by 42% and Scope 3 emissions by 25% by 2030.²

¹ From a 2022 baseline year.

² Includes purchased goods and services, upstream transportation and distribution, business travel, and use of sold products from a 2022 baseline year.

Leading a new era in sustainability for a more resilient tomorrow

We're creating a world where healthcare has no limits, helping to improve access to care and enable better patient outcomes.



Environmental

Using fewer resources for a healthier planet.

Digital

Transforming healthcare through innovation.

Resilience

Building flexibility and dependability across healthcare systems.

The Revolution Vibe helps create a more sustainable tomorrow

Our Revolution Vibe and its services help ensure clinicians and the patients they serve have the technology necessary to create a more sustainable and resilient tomorrow.

Reducing environmental impact

- More than 85% of the materials used can be returned to the flow of recyclable materials.³
- Our CT systems are engineered for future upgrades to mitigate technology obsolescence and support evolving clinical needs.
- Our product-level take-back, trade-in, or upgrade programs are available to all customers. Subsystems or components from the site will be repaired as Field Replaceable Units (FRU) or disassembled for material recycling.⁴

Improving care

- Exceptional technology in every dimension of the CT imaging chain.
- Unprecedented clinical solution across a wide range of care areas.
- Future-ready platform helps ensure quick access to the next generation of CT innovation.



³ Data on file.

⁴ Products within MR, CT, nuclear medicine, and PET/CT 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.

Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.⁵ As a result, we have strengthened our commitment to environmentally conscious design, and we are implementing more 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 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.

⁵ "Health Care Climate Footprint Report." Health care climate footprint report | Health Care Without Harm (Global). Accessed June 2, 2025. <https://global.noharm.org/resources/health-care-climate-footprint-report>.

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.

Recyclability

We're committed to high recyclability of our products and reuse when possible.

When we build a replacement X-ray tube for the Revolution Vibe, 35.2% of the mass of the X-ray tube is reused, helping to reduce energy and natural resources.⁶

Reduce the use of hazardous substances

EU RoHS directive 2011/65/EU

REACH (EC) 1907–2006

The Revolution Vibe gantry design does not use lead material as counterweight or for shielding in the pre-patient collimator, but instead uses steel and tungsten, helping to improve production worker safety and reduce environmental impact.

⁶ Data on file.



Packaging and distribution

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

Product packaging⁷ The packaging materials consist of wooden pallets with cardboard overpack and plastic vibration absorbers.

- 74% wood
- 23% cardboard
- 3% plastic
- 751 kg total package weight

Product transportation⁸ 47% air transport
10% ocean transport
43% truck transport
53% product transportation utilizes low environmental impact modes. Revolution Vibe systems are now available for rail shipment. Compared with air shipment, there is a significant reduction in carbon emissions.

Manufacturing

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

Renewable energy At our Beijing manufacturing site, on-site solar panels generate 3.6 million kWh of clean electricity annually, helping reduce approximately 2,192 tonnes of CO₂e emissions each year. A smart power management system has also been implemented to monitor and optimize energy consumption across the facility.

⁷ The values provided are based on the typical packaging at GE HealthCare's CT manufacturing sites for the Revolution Vibe.

⁸ The values provided are based on product transportation and distribution during 2021.



Manufacturing *(cont.)*

Renewable energy *(cont.)* Similar solar technology has been deployed at our Waukesha manufacturing site, where 1.5 million kWh of renewable electricity is generated annually.

Product utilization

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 Our Vibe scanner is equipped with two low power modes: Sleep Mode and Energy Saving Mode. Sleep Mode is ideal for short periods of inactivity, while Energy Saving Mode is perfect for longer non-operational hours, such as overnight or during weekends.

Power consumption⁹	Scenario – Off	: 46.2 kWh
	Scenario – Idle	: 84.7 kWh
	Scenario – Low Power	: 58.2 kWh with Energy Saving Mode / 74.1 kWh with Sleep Mode

⁹ Per COCIR Self-regulatory initiative for medical imaging equipment, over a 24-hour period, with 12 hours night scenario as noted (Off, Idle, Low Power).



Product utilization *(cont.)*

Our imaging products are designed for energy efficiency, with dedicated features and advanced applications to reduce environmental impact. The ergonomic design can help enhance health and potentially reduce environmental impacts, such as reducing waste and saving energy.

Ergonomically designed

Patient setup and positioning

Streamline patient setup with Auto Positioning. Starting with smart protocol selection and automated centering, simply click a button to automatically position your patient at the start location of the scan.

Reduce staff burden

The remote control panel allows the technologist to make table position adjustments or set a landmark from the console.

Reduce noise

Reduce audible noise by more than 50% during gantry rotation at 0.28 sec to improve patient comfort (audible gantry noise is measured at 69 dBA).¹⁰

¹⁰ Compared to a typical belt-driven system rotating at 0.28 s/rotation speed

Digitizing healthcare through transformative innovations for a more 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.

Helping clinicians advance patient 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 for quicker decision-making

Whenever there is residual motion in the coronary arteries, let SnapShot Freeze 2 go to work in further reducing the motion within the vessel. Minimize the motion within the structures of the heart, and further improve image quality of anatomy that is constantly in motion.

Keep your imaging equipment up to date with advanced clinical applications

Smart Subscription protects your equipment from obsolescence and keeps the system at its best. It improves patient outcomes and productivity due to improved functionality and easy access to innovation.

Enhancing image quality

By utilizing our deep learning image reconstruction engine, TrueFidelity™ sets a new benchmark in CT image quality. Gain outstanding image details, clarity, and texture all at the same time—without compromise.



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

90% protocol suggestion accuracy with Imaging Protocol Manager.¹¹

Remotely upload, edit, and monitor protocols for multiple service lines, including CT and MR, to deliver consistent image quality and optimal patient care with Imaging Protocol Manager.

Gain data intelligence and actionable insights across your radiology department to increase productivity with Imaging Insights.

Help reduce repeat scans and ensure accuracy through live support by leveraging centralized expertise and standardized care across the enterprise with Digital Expert.

Remote diagnostics and predictive analytics solutions to streamline your needs:

- Enable software updates, reducing the need for on-site support
- Secure serviceability, review, and system troubleshooting

¹¹ Results may vary depending on the circumstances, including but not limited to exam type and clinical practice. This analysis was performed on 3,175 exams representing 17 different exam descriptions, collected from four different medical evaluation sites. GE HealthCare cannot guarantee these or similar results.



Optimizing imaging operations *(cont.)*

Increase productivity and consistency *(cont.)*

Resilient solutions, such as remote control function combined with three in-scan-room cameras, allow the technologist to fully operate the CT scanner without the need for interacting with patients during high-risk or critical times, such as the pandemic.

Reduce downtime

OnWatch™ and Tube Watch enable predictive services to digitally track key system metrics and detect any anomalies. They send proactive alerts to a remote engineer, who either makes the repair online or schedules a service call.¹²

- 75% reduction in tube-related downtime
- 41% reduction of overall system unplanned downtime
- 36% of total on-site labor is planned

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.

¹² Results may not be typical of every customer's performance. Versus a break and fix model. Average planned labor hours are calculated by using all the proactive service requests initiated by the system with their associated planned downtime compared to the service requests initiated by the customer with associated unplanned downtime.



Enabling intelligent exam workflows

Intelligent automation features help drive consistency; enable fast, easy exams; and improve workflow with fewer resources.

Reduce setup time

Streamline patient setup with Auto Positioning. Starting with smart protocol selection and automated centering, simply click a button to automatically position your patient at the start location of the scan.

Reduce exam time

21% shorter entire exam time with Effortless Workflow.¹³

66% reduction in clicks per CT exam with Effortless Workflow.¹⁴

¹³ Compared to legacy GE HealthCare CT scanners. Data based on comparison between GE HealthCare's legacy products (16ch and 64ch scanner) and Revolution Vibe in the three institutions using a pilot product, with routine head and body selected. The dataset of this comparison was 838 exams for legacy products and 1,387 exams for the Revolution Vibe. The time-saving value may not be effective for all institutions depending on the clinical practice. Definition of entire exam time is from "Open new patient" to "Last primary recon completed" for Revolution Vibe and "Close exam" for legacy products.

¹⁴ Compared to legacy GE HealthCare CT scanners. Required clicks are defined as the number of clicks required to execute a scan, from selecting a new patient to start scan. The number of all associated required clicks for and in clinical practice may vary depending on the circumstances, including but not limited to the clinical task, exam type, clinical practice, and image reconstruction technique.



Enabling intelligent exam workflows *(cont.)*

Ease of use

- Intelligent protocoling utilizes machine learning to intelligently suggest the relevant protocol.
- Auto Positioning provides automated patient positioning and scout range display.
- Auto Prescription automatically adapts scan parameters to patient size and clinical indication for optimal dose optimization and desired image quality.
- Smart DMPR generates consistent and anatomically relevant reformats. AutoSend them to a designated destination, such as PACS or workstation.

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](https://www.gehealthcare.com/cleaning) for updates.

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 support for upgrades and services throughout a product's lifespan, when available, 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 remaining parts are returned to dedicated recycling facilities.

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

The Revolution Vibe offers upgrade options to extend the lifespan of the system, including:

- Smart Subscription protects your equipment from obsolescence and keeps the system at its best. It improves patient outcomes and productivity due to improved functionality and easy access to innovation.

Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions

CT 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.¹⁵

Our product-level take-back, trade-in, or upgrade programs are available to all customers. System can be refurbished to GoldSeal™. Subsystems or components from the site will be repaired as Field Replaceable Units (FRU) or disassembled for material recycling.¹⁵

Waste reduction

This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations.

¹⁵ Products within MR, CT, nuclear medicine, and PET/CT 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.

GE HealthCare product stewardship commitment

For more than 20 years, GE HealthCare’s GoldSeal program has played a vital role in reducing medical imaging equipment waste by promoting and enabling the reuse of equipment and parts from de-installed imaging systems. After undergoing an extensive inspection and testing process, GoldSeal equipment is refurbished to meet the original system specifications. Buyers of GoldSeal MRI, CT, or PET/CT products can save on the acquisition costs associated with buying new equipment. Machines deemed unsuitable for GoldSeal refurbishment are dismantled at end of life and, after successfully passing acceptance testing criteria, specific parts are harvested for reuse. Where harvesting is not appropriate, GE HealthCare recycles about 94–96% of most systems. In a typical year, GoldSeal refurbishes approximately 8,000 pieces of imaging machines and ultrasounds.

New product purchase or lease

GoldSeal program: lease return product or buyback

- Comprehensively refurbished and/or remanufactured
- Updated with new software
- Recertified following all FDA requirements
- Equipment backed with one-year, same-as-new equipment warranty

Reclaim for parts and materials

Identify parts for refurbishing and/or repurpose.

End of life

Our product-level take-back, trade-in, or upgrade programs are available to all customers. Subsystems or components from the site will be repaired as Field Replaceable Units (FRU) or disassembled for material recycling.



Revolution Vibe stands as a testament to affordable excellence, optimized to provide unparalleled innovation and performance in advanced cardiac imaging through unlimited 1-beat cardiac, whole heart coverage, with or without beta blockers or an ECG trace.

Key Spec and Technology

Tube type	Liquid Metal Bearing Tube
Tube Maximum mA	1300 mA Maximum X-ray output
Detector Z-Coverage	Up to 160 mm
Bore Size	80 cm
Gantry Rotation Speed	0.23 sec per rotation
AI Based Recon	Yes, DLIR (Deep Learning Image Reconstruction)
Optimized workflow	Yes, include but not limited to ECG-less Cardiac Auto Positioning Effortless Workflow
Spectral CT	Yes, GSI Xstream
Low Power Mode	Yes: Sleep Mode and Energy Saving Mode



Operating Data

Heat Dissipation in idle	< 4 kW
Heat Dissipation in Scan Room (Full Utilization)	12.3 kW
Heat Dissipation in Operation Room (Full Utilization)	1.5 KW
Peak Power Consumption	200 KVA
Allowed Ambient Temperature	18°C-25°C
Allowed Relative Humidity	30% ~70% (Non-condensing)
Noise Level	≤ 69 dB @ 0.28 s
System Cooling	Air cooling
Key subsystem cooling	Closed loop Liquid Cooling and Air cooling



Creating a healthy world to help enable better patient outcomes

GEHealthCare.com/about/sustainability

Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country. Commercial availability of GE HealthCare medical systems is subject to meeting local requirements in a given country or region. Not all features are included in the standard system configuration. Contact a GE HealthCare representative for more information. Intended for healthcare professionals only.

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