

Sustainable computed tomography solutions for a resilient tomorrow







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.



Revolution™ Maxima helps create a resilient tomorrow

Our CT, Revolution[™] Maxima, and its services help ensure that radiology professionals and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

Reducing environmental impact

- Reduce energy consumption up to 15% when using Energy Savings Mode.¹
- Reduced indirect carbon emissions by 68% when using Energy Savings Mode (ESM) and by 62% when not using ESM.²
- 88% of materials used in the system are recyclable.³

Improving outcomes

- A cornerstone platform is setting a new standard in CT operations with AI-based Auto Positioning to elevate what you can expect from every exam.
- Building upon the powerful platform with core imaging technologies is at the heart of Revolution Maxima with full 40 mm detector coverage and 0.28 mm high spatial resolution enabled by the leading iterative reconstruction algorithm ASiR-V[™].
- A powerful, high-performing, reliable CT designed to maximize every step of the CT workflow, from referral to report.



Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.⁴ 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.

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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	88% of materials used in the system are recyclable. ⁵ When we build a replacement X-ray tube for the Revolution Maxima, 60.1% of the mass of the X-ray tube is reused, enabling savings on energy and natural resources.
Reduce the use of hazardous substances	EU RoHS directive 2011/65/EU REACH (EC) 1907-2006 The Revolution Maxima gantry design does not use lead material as counterweight but instead uses steel, helping to improve production worker safety and reduce environmental impact.

Manufacturing

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

Renewable energy	More than 1,600 kWh of energy is generated with GE on-site solar renewable energy at the Waukesha, Wisconsin CT production
	facility. This large solar array is located on both the roof and surrounding grounds. ⁵



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 ⁶	The packaging materials consist of wooden pallets with cardboard overpack and plastic vibration absorbers.	
	Wood: 73% Cardboard: 24% Plastic: 3% Total package weight: 445kg	
Product	Air transport: 47%	

Product transportation⁷

Air transport: 47% Ocean transport: 10% Truck transport: 43%

53% product transportation utilizes low environmental impact modes⁷

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

Patient setup and positioning	Revolution Maxima simplifies the entire patient setup process. Innovative auto centering technology is at the core of our improved scan experience, but it starts with related protocol recommendations. With the click of a button, automatically position your patient at the start location of the scan with Al- based Auto Positioning.
Reduce staff burden	Ensure consistency and ease of use for the technologists by enabling them to select protocols in the CT scan room while the landmark detection accurately maps, landmarks, and defines the scan range.
	Auto Positioning and Auto Center can help free up your technologists so they can focus on making your patients feel more comfortable.
	For flexible options, the remote control panel allows the technologist to make table position adjustments or set a landmark from the console.



Product utilization (Cont.)

Reduce energy consumption

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	Up to 15% energy savings when using Energy Savings Mode ⁸ Revolution Maxima is designed for less heat generation—up to 90% in one DAS / Detector. ⁹
Power consumption ¹⁰	Scenario – Off: 31 kWh Scenario – Idle: 41 kWh Scenario – Low Power: 38 kWh

⁸ Compared to the same system not using Energy Savings Mode.
⁹ Compared with previous generation system.
¹⁰ 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).

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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.

Guidance for end of lifecycle	Equipment instructions are provided to minimize the environmental impact for disposal or recycling.
Upgrades: hardware and software options are provided as a solution to extend the product lifespan.	Revolution Maxima offers multiple upgrade options to extend the lifespan of the system, including upgrading from 64 to 128 slices. Software upgrades are also available, including the Advanced Cardiac Package and Neuro Stroke Imaging package. Utilize Smart Subscription to keep your software up to date.
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 for the refurbishment program, in which they are assessed for refurbishment, harvesting, or recycling at the appropriate time in the lifespan. ¹¹
	94–96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product. ¹¹
Waste reduction	This system is in accordance with Waste Electrical and Electronic

Equipment (WEEE) regulations.

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



- Comprehensively refurbished and/or remanufactured
- Updated with new software
- Recertified following all FDA requirements
- Equipment backed with 1 year, same-as-new equipment warranty

RECLAIM FOR PARTS AND MATERIALS Identify parts for refurbishing and/or repurpose

END OF LIFE

About 94–96% of most systems are recycled, substantially reducing the volume of waste en route to landfills.



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 resiliency and perseverance.



Advancing clinical outcomes

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

Gain actionable clinical insights quicker for earlier diagnosis 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.

A reproducible method for segmenting the liver guided workflow, DL Hepatic VCAR can help in assessing the complete liver anatomy to assist in surgical planning and lesion evaluation.

Musculoskeletal studies are made simpler with automated spine labeling by DL Bone VCAR.

Automate detection of lung nodules with digital contrast agent Lung VCAR.

Review all CT series acquired for acute stroke workup with exceptional flexibility and simplicity with comprehensive workflow solution FastStroke.



Advancing clinical outcomes (Cont.)

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

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.

Help improve patientUse upoutcomes withimageimproved image quality

Use up to 82% lower patient dose with ASiR-V with the same image quality. $^{\rm 12}$

Drive advancements A powerful, high-performing, reliable CT designed to maximize every step of the CT workflow, from referral to report. Setting a new standard in CT operations with breakthrough one click AI-based Auto Positioning.

¹² Compared to standard filtered back projection (FBP) reconstruction. In clinical practice, the use of ASiR-V may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.



Optimizing imaging operations

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 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	90% protocol suggestion accuracy with Imaging
and consistency	Protocol Manager ¹³

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.

Imaging Insights — data intelligence and actionable insights across your radiology department to increase productivity

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.
- Elevate training and support.



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Optimizing imaging operations (Cont.)

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.¹⁴

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

Utilizing a partial system UPS can help maintain user productivity and improve system reliability.

Cybersecurity

Reduce downtime

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.

¹⁴ Results may not be typical of every customer's performance and cannot be guaranteed. 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

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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	Streamline the 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.
Ease of use	Auto Positioning provides consistency and ease of use for the technologists with one-click, hands-free automation.
Cleanability	Our equipment is designed to be cleaned and disinfected easily. We continue to test and approve new cleaning and disinfecting agents. Visit <i>Cleaning.GEHealthcare.com</i> for updates.
	The validated cleaning and disinfection instruction manual can be downloaded on the <i>customer documentation portal</i> with document number 5881700-1.



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.**

**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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