Sustainable X-ray solutions for a resilient tomorrow

AMX™ Navigate

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.

AMX Navigate helps create a resilient tomorrow.

Our AMX Navigate mobile X-ray system 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

- 80% of our X-ray systems are eligible to be recycled.[1]

Improving outcomes

- System can be driven within 4 seconds of activation.
- QuickCharge detector allows battery charge while in bin.
- QuickShare enables detectors to be shared across systems.
- AutoGrid software can be used in lieu of a physical grid to improve image contrast.

Contributing to a healthier planet

More than half of the healthcare sector's climate footprint, approximately 53%, is attributable to energy use.[2] 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.

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.
	80% of materials used in the system are eligible to be recycled.[3]

Reduce the use of hazardous substances	EU RoHS directive 2011/65/EU
	REACH (EC) 1907–2006

Manufacturing

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

Renewable energy	Native digital X-rays outperform film in image quality, eliminating the need for water and chemicals used in producing print films.

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 has been reduced from 4 boxes to 1 reusable box to reduce waste. A reusable metal buckle is used to fasten the wood-box packaging instead of nails, making it easier to open.

Product utilization

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

Guidance for product utilization	Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation.
Power consumption	System battery charges from 0% to 100% in 4.5 hours.[4]
	Battery-operated system can perform up to 50 exams without being plugged into a power outlet (estimated 100 X-ray exposures over approximately 6 hours).[4]

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	The system supports software updates which can be done remotely (eDelivery).
Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.	80% of X-ray 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.[5] 94–96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product.[5]
Waste reduction	This system is in accordance with Waste Electrical and Electronic Equipment (WEEE) regulations.

[5] Products within MR, CT, nuclear medicine, PET and X-ray 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.

Help improve patient outcomes with improved image quality

Helix™ 2.2 advanced image processing leverages artificial intelligence (AI) in image quality to deliver sharp detail and consistent performance in X-ray—despite variations in exposure technique and challenging exam conditions.
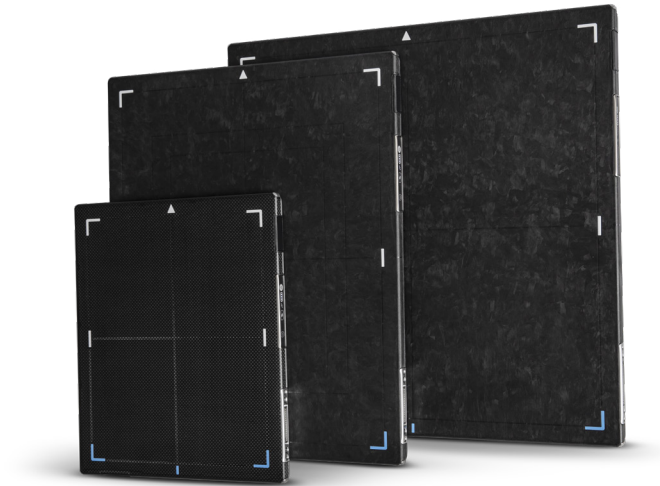
Optimizing imaging operations

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

Free Motion power-assisted telescoping column reduces the stress and strain of tube positioning.

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

RFID badge swipe provides a 90% time savings at login.[6]

AutoGrid is a software that can be used in lieu of a physical anti-scatter grid to improve image contrast in general radiographic images by reducing the effects of scatter radiation and can result in a 24% reduction in exam time.[6]

Battery-operated system can perform up to 50 exams without being plugged into a power outlet (estimated 100 X-ray exposures over approximately 6 hours).[7]

Auto Protocol Assist eliminates the user steps required to select patient exam types and initiate an exam.

Repeat and Reject Analysis is an automated quality assurance tool that allows for repeat or reject images to be captured and categorized by technologist.

Zero Click Exam leverages RFID badge login, barcode patient verification, automated protocol selection, and AI processing to eliminate the need for touchscreen interaction prior to annotation.

Optimizing imaging operations (Cont.)

Increase productivity and consistency (Cont.)	Critical Care Suite 2.0, the first on-device AI solution for triaging and enhancing productivity, automatically identifies critical conditions and helps physicians assess ET tube placement.
	Quality Care Suite 2.0 provides onscreen quality checks to the technologist to help improve image quality and workflow efficiency.
	X-ray Quality App is an analytics application that provides the collection, aggregation, and visualization of dashboards that allow radiology department managers and lead technologists to gain insights into their X-ray image reject rates, their reasons, and how they evolve over time.
Reduce downtime	Remote system connection, diagnosis, and repair with iCenter™ asset management, OnWatch™ proactive monitoring, and InSite™ remote connectivity enable our service team to monitor your system usage and status remotely, saving significant travel time and energy expenditure.
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 to drive consistency, enable fast, easy exams, and improve workflow with fewer resources, all while achieving similar or improved outcomes.

Reduce setup time

Intelligent Auto Rotate automatically detects if an image is not upright and rotates the image to be upright for the view, saving technologists approximately 187,000 clicks per year.[8]

Reduce exam time

5 seconds or less between 2 consecutive X-ray exposures[9]

24% reduction in exam time with AutoGrid[10]

Ease of use

RFID badge swipe provides a 90% time savings at login.[11]

Images can be produced with as little as half the dose of traditional computed radiography, cassettes, and other flat panel detectors with lower DQE.

QuickShare enables FlashPad™ Imaging Suite detector pairing in <30 seconds, allowing you to interchange detectors seamlessly with compatible GE systems.

QuickEnhance is a simple 1-touch image reprocessing that supports line and tube placement verification.

Auto Protocol Assist matches procedure codes from Worklist to select anatomy technique.

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.

[8] Data on file.
[9] Enabled by operation interface specs. Data on file.
[10] E bench testing, White Paper, GE Healthcare's AutoGrid Software (JB77154XX)
[11] AMX Navigate Data Sheet, Operator Manual, data on file.

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.[12]

[12] 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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