Focusing on sustainability in X-ray solutions

Definium™ Pace

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 is committed to achieving net zero by 2050 and we have signed up to the Science Based Targets initiative (SBTi) business ambition for 1.5C, a group of visionary corporate leaders taking ambitious climate action, and we have committed to implementing science based targets. This includes a public goal to reduce operational emissions (scope 1 and 2) by 50% by 2030 against a 2019 baseline. As a result of these efforts, we want to help 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.

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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.

Definium™ Pace Select helps create a more sustainable tomorrow

Our Definium™ Pace X-ray system 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

- 80% of materials used in the system are eligible to be recycled[1]

Improving care

- Increase productivity and consistency with AI-based solutions, such as AutoGrid, Real Time IP Looks, and Quality Care Suite.[1]
- Reduce setup time and improve workflow with automation features such as Auto Protocol Assist† and QuickEnhance.
- Helix™ 2.2 advanced image processing delivers more image details and consistent performance across patient populations and anatomies.

[1] Data on file (DOC2643275)
† Denotes optional feature

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 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.
We're committed to environmental product design	This product conforms with IEC60601-1-9:2007.

[2] Health care climate footprint report | Health Care Without Harm (noharm-uscanada.org), based on 2019 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.
	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
	The wall stand and tube stand designs use steel instead of lead, helping to improve production worker safety and reduce environmental impact.

[3] Data on file (DOC2643275)

Packaging

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

Improved packaging	A reusable metal buckle is used to fasten the wood-box packaging instead of nails, making it easier to open.

Manufacturing

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

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

Product utilization

Our imaging products are designed to help enable energy efficiency through dedicated features and advanced applications to reduce the environmental impact. Ergonomic design can help to enhance health and potentially reduce environmental impacts, such as reducing waste and saving energy.

Ergonomically designed

Patient setup and positioning	Auto Protocol Assist† automatically selects the correct anatomy specific protocol, and the tube stand with 5-axis movement enables easy positioning for all exams.
	Static table with an ergonomic and robust design makes it easy to put in or pull out the detector in the tray.
Reduce staff burden	Extended handswitch† enables operation of the system at a convenient location for technologists, reducing unnecessary movement throughout the exam.
	Tracking function of table detector tray to tube movement reduces workload of technologist.
Reduce noise[4]	Audible noise (1 m from system) ≤65 dBA during motion

[4] Data on file (DOC2643275)
† Denotes optional feature

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 standby mode	Reduce energy consumption by 40% using standby mode, when the system is idle, compared to the system in scan mode.
Power consumption	Standby (no scan): 0.85 kVA Scan mode: 112 kVA (momentary) 2.2 kVA (continuous)

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 providers take advantage of increased functionality.

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 most of 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 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 materials used in the system 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 depends on the state of the system when GE HealthCare takes possession of it. Data on file.

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.

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	AutoGrid with three modes and three strengths is designed to reduce scatter radiation under different scenarios. It provides equivalent image quality[6] under same level of dose compared to physical grid, and reduces the constraint of focus/SID impact specific to a physical grid.
	Repeat/Reject Analysis is an automated quality assurance tool that allows for repeat or reject images to be captured and categorized by technologist.
	Quality Care Suite (QCS)[†] provides real-time, on-device, automatic quality checks for frontal chest X-rays.
Reduce downtime	Connected monitoring[†] can provide remote service and proactive maintenance.
	InSite[†] Remote Service Platform (RSvP) provides remote diagnostics and troubleshooting for fast solutions, often without a field engineer visit, 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.

[6] Data on file (DOC2897592)
[†] Denotes optional feature

Enabling intelligent exam workflows

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

Reduce setup time

AutoRAD† features Auto Protocol Assist, which assists the technologist by automatically selecting the correct anatomy specific protocol without any button presses after patient selection.

The Quick Toolbar provides quick access to commonly used functions while reviewing images. Adapt the Quick Toolbar to include your most frequent operations from the complete set of twenty-two available tools.

The Quick Toolbar includes QuickEnhance, a one-touch function that can reprocess images with a different custom look with no additional dose to the patient and no additional clicks for the user. Customize QuickEnhance by anatomy for multiple uses including instrument check, implant visualization, and line placement.

Tracking function of table detector tray to tube movement reduces workload of technologist.

† Denotes optional feature

Enabling intelligent exam workflows

Reduce exam time[7]	Time between 2 consecutive X-ray exposures is 5 seconds or less.
Ease of use	Extended Handswitch[†] enables the operation of the system at a convenient location for technologists reducing unnecessary movement throughout the exam.
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.

[7] Data on file (DOC2897592)
[†] Denotes optional feature

Creating a healthy world to help enable better patient outcomes.

GEHealthCare.com/about/sustainability

GE HealthCare is a member of COCIR, the European Trade Association representing the medical imaging, radiotherapy, health ICT, and electromedical industries.[5]

[5] *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. 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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