Sustainable interventional image-guided system solutions for a resilient tomorrow

Allia™ IGS 3

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 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.

Allia IGS 3[1] helps create a resilient tomorrow.

Our Allia IGS 3 interventional image-guided system and its services are aligned to meet our environmental goals of Green, Digital, and Resilience and help ensure that clinicians and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

Reducing environmental impact

- 100% of Allia IGS 3 systems equipped with a 31 cm detector are eligible for refurbishment through the Silver Preferred program.

- Smart Box and TSCC user interfaces are replaced by one ergonomic control panel.

Improving outcomes

- Clinical outcomes:
    - AutoRight™ AI-based image chain
    - Reduce dose by up to 25% with InnovaSense™.

- Operations outcomes:
    - Reduce unplanned downtime by up to 38% with OnWatch™.

- Workflow outcomes:
    - Simplify workflow through ASSIST solutions and Allia control panel and Detector User Interface (UI)

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

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.
	100% of systems are eligible for refurbishment through the Silver Preferred program.
	During the product lifecycle, 64% of our tube parts (in value) are reused components:
	4% of parts are harvested components from de-installed systems.
	13% of parts are repaired in our facilities.
	47% of parts are certified as new (tubes).
	75% of the weight of Performix 160A tubes is recycled back into the new tubes manufacturing.
Reduce the use of hazardous substances	(EC) No 1907/2006
	GE HealthCare collaborates with the suppliers to ensure that imported articles and those manufactured inside the European Union conform with the REACH regulation (EC) No 1907/2006, Article 33
	GE HealthCare has been recycling iodine-based contrast media for European healthcare facilities since 2006, and now offers this recycling program in 11 European countries, Canada, and the US.

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

Incoming:
Returnable packages between suppliers and manufacturing

Toward the customer:
Recyclable cardboard packaging for tubes replacing wooden crate

Product transportation

Shipment methods of Allia IGS 3 is broken down as follows:
Air transport: 86%
Truck transport: 14%

14%

14% product transportation utilizes low environmental impact modes

Manufacturing

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

Reduced electricity

Power consumption is managed at the manufacturing site level and includes tubes, generators, AW workstations, mammography, and IGS systems.

We are committed to efforts in reducing electricity consumption in our facilities.

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

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	Enjoy easy patient access and wide anatomy coverage at each and every working position.
	Utilize commands at your fingertips wherever you are: • Compact and flexible user interface at tableside • Direct access on detector for C-arm, table, and detector motions
	The new workplace respects ergonomics standards of human upper body postures and gestures in 95% of the population, according to standards ISO 11226:2000 and BS EN 1005-4:2005+A1:2008, for typical working positions.
Reduce noise	Perception of tube noise reduction is noted after redesign of the tube mounting interface.

Product utilization (Cont.)

Reduce staff burden   Create a personalized workplace to adapt to clinical needs & preferences.

Clinician profile is tailored to unique needs and preferences with up to 50 personalized user profiles.

Increase operating comfort with smartphone-like interactions on the touch panel.

AutoRight, the first AI-based interventional image chain in the industry,[3,4] allows automatic adjustment of up to seven parameters[5] in real time to optimize image quality and dose.

Reduce energy consumption   Instructions are provided for use of the equipment to minimize the environmental impact during installation, use, and operation.

Statistically, systems are unused 50% of the day, GE HealthCare recommends shutting down the system when unused.

Reduce energy consumption during use   Standby power mode results in a 20% reduction in energy when idle.

High Image Quality optimization and dose reduction features result in reduced power consumption:

- myIQ allows to noise reduction up to 53% or increased contrast up to 29% in Dynamic[6] across the image looks without increasing the dose.
- myIQ allows noise reduction up to 77% or increased contrast up to 70% in Fluoroscopy across the image looks without increasing the dose.

[3] AutoRight refers to intelligent image chain features of GE HealthCare's Interventional X-ray systems, from image acquisition to image processing and display, available on Allia IGS 3. May not be available on all markets.
[4] Based on competitive research, among major players in interventional imaging.
[5] One of the parameters is InnovaSense, an option.
[6] With IntelIQ auto-exposure preference.

Product utilization (Cont.)

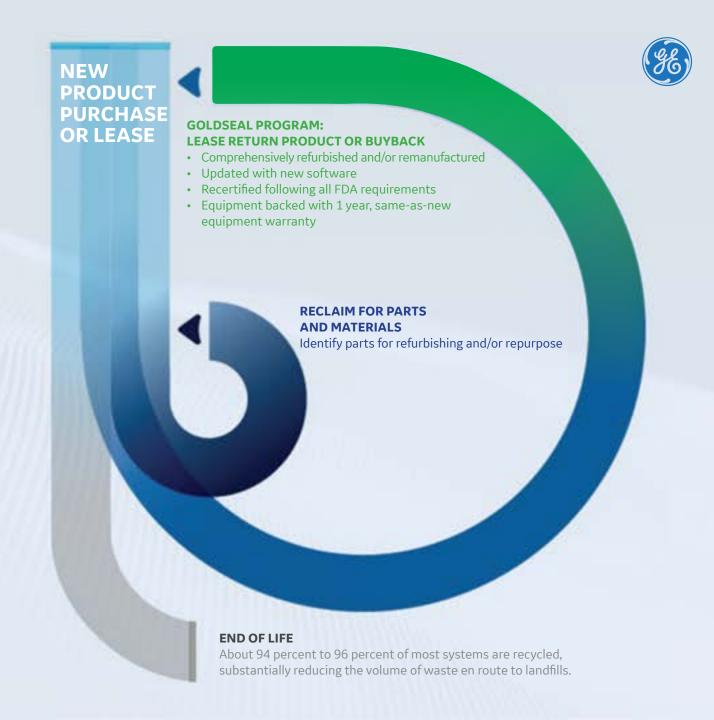|	
Power consumption	Off Mode: 0.4 kW Standby (no scan): 4.5–7.5 kW Scan Mode: 5.5–8.5 kW (5% of Standby time)
Guidance	Equipment instructions are provided to minimize the environmental impact for disposal or recycling.
Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.	100% of Allia IGS 3 system parts are eligible for the refurbishment program, in which they are considered for refurbishment, harvesting, or recycling at the appropriate time in the lifespan.
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, PET/CT, or IGS 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 1 year, same-as-new equipment warranty

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

END OF LIFE
About 94 percent to 96 percent 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 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 quicker for earlier diagnosis	Interactive control of the IQ/dose trade-off with AutoRight cockpit.
	ASSIST Advanced applications (attachment rate 90%+).
	ASSIST solutions provides advanced tools with simplified workflow to perform complex procedures.
Keep your imaging equipment up to date with advanced clinical applications	Smart subscription on ASSIST packages.
	ASSIST packages are fully backward compatible.
	For previous generation products, upgrade packages are available in order to keep imaging equipment up to date with advanced clinical application.
Help improve patient outcomes with improved image quality	Intuitive cockpit offers dose awareness and control: graphical color-coded display of real-time dose rate for immediate visual feedback.
	Dose Map offers visualization of estimated local cumulated dose all along the exam for additional dose awareness.
Drive advancements with precision health	AutoRight, the first AI-based interventional image chain in the industry,[3,4] allows automatic adjustment of up to seven parameters[5] in real time to optimize image quality and dose.

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	Clinical and operational capabilities are updated with Continuity™, extending the life of interventional system.
	Continuous and customizable clinical application training to optimize performance.
	ASSIST provides advanced tools with a simplified workflow to perform complex procedures.
Reduce downtime	Costs associated with downtime are reduced to a minimum thanks to OnWatch Remote Services.
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.
	DEPS (Design Engineering Privacy and Security) that includes NIST 800-53 and ISO 27001 security controls.
	Compliance with general data protection regulation (GDPR) and HIPAA. System and application hardening through DOD STIGs.

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

Create a personalized workplace to adapt to clinical needs & preferences.

Clinician profile is tailored to unique needs and preferences with up to 50 personalized user profiles.

Reduce exam time

Allia provides an offset C-arm to enable head-to-groin coverage without moving the gantry and easy access to patients for anesthesia and nursing needs.

Ease of use

Increased operating comfort with smartphone-like interactions on the Touch Panel.

Compact and flexible user interface at tableside.

Direct access on detector for C-arm, table and detector motions.

Cleanability

Allia is based on a rail-free design for improved hygiene.

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.

Building a healthy world to help enable better patient outcomes.

Product may not be available on all markets. Refer to your sales representatives for more information.

GE HealthCare is a member of COCIR, the European Trade Association representing the medical imaging, radiotherapy, health ICT, and electromedical industries.[9]

[9] https://www.cocir.org/about-cocir/members.html