

Sustainable magnetic resonance imaging solutions for a resilient tomorrow

SIGNA[™] Artist Evo





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.



SIGNA[™] Artist Evo helps create a resilient tomorrow.

Our 1.5T MR system, SIGNA[™] Artist Evo, and its services help ensure that radiology professionals and the patients they serve have the technology necessary to create a sustainable and resilient tomorrow.

A SIGNA[™] Artist Evo transformation extends the legacy system's life expectancy and reduces its carbon footprint. Keeping the current magnet eliminates waste, reduces helium consumption, and lowers reconstruction costs. It's cheaper for the consumer and kinder for the planet.

Reducing environmental impact

- Transform your legacy MR system by upgrading from 60 cm to 70 cm, with no magnet waste.
- GE MR systems are eligible for refurbishment, reuse, or recycling at the end of their product life.
- The GE MR magnet is clinically strong for up to 30 years.
- System upgrade uses the existing magnet, resulting in up to 2,000 liters less helium required.
 This means that no additional helium needs to be purchased and transported to site.¹

Improving outcomes

- SIGNA[™] Artist Evo gives technologists and radiologists quick, patient-friendly exams with consistent and optimal image quality.
- The AIR[™] family of products delivers clinical versatility and comfort, intelligent productivity improvements, and consistently extraordinary image quality.
- Deliver faster scans with a boosted gradient performance of 44 mT/m, 170 T/m/s.



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

Recyclable



100% of the MR magnets returned are recycled into raw materials.³

Our MR system covers are completely recyclable plastics.

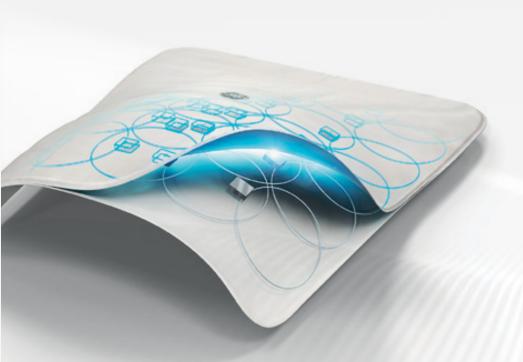
Reduce the use of hazardous substances REACH (EC) 1907-2006

Manufacturing

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

Reducing electricity The system uses Ultra High Efficiency (UHE) technology to generate exceptional imaging performance using about half the amount of electrical current than a contemporary system.





AIR[™] Anterior Array (AA) Coil

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 Transforming from a 60 cm to a 70 cm bore widens the cross-section by 36%, giving patients extra room during their scan.

Reduce claustrophobia rejection rates by 90% while boosting comfort and patient satisfaction.⁴

AIR[™] Recon DL enables shorter scan times, reducing the time spent on the table.

AIR[™] Coils are designed to be flexible and 50% lighter to provide better coverage than traditional coils. They allow greater patient positioning freedom and patient comfort, as well as reduced burden on the technologists lifting the coils.⁵

AIR Touch[™] offers 59% less patient setup time and 37% less table time for the patient.⁶

AIR x[™] automated MR slice prescription reduces setup time and provides reproducible planning to ensure exam consistency.

Reduce staff burden

Increase productivity and streamline workflows with shorter scan times.

Optional detachable eXpress Patient Table improves patient handling and comfort, allowing for faster patient setup.

⁴ Claustrophobia rate comparison head-first/feet-first.
 ⁵ AIR Coils data on file (2018).
 ⁶ Compared to conventional technology. Data on file.

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 We are and cor packagi

We are replacing our wood and corrugated cardboard packaging with paper, increasing the amount of recyclable packaging.

Product transportation

Air transport: 10% Ocean transport: 0% Truck transport: 90%



90% of product transportation utilizes low environmental impact modes.

Product utilization (Cont.)



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Reduce noise	Silenz is a 3D Zero-TE sequence comprised of high-bandwidth excitation and reduced gradient-switching radial acquisition that drastically reduce noise level from an ear splitting, motorcyle-level 91 dB to within 3 dB of scan room ambient sound. In addition, Silenz has added flexibility in sequence prescription to enable faster scan times.
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	Utilize standby power mode to reduce energy consumption by 53% when the system is idle. ⁷
	AIR Touch™ offers 59% less patient setup time and 37% less table time for the patient. ⁸
Power consumption ⁷	Off mode: 6.01 kW Standby (no scan): 8.84 kW Scan mode: 36.86 kW
Reduce consumable energy utilization	System upgrade uses the existing magnet, resulting in up to 2,000 liters less helium required. This means that no additional helium needs to be purchased and transported to site. ⁹
	Zero boil off virtually eliminates helium refills under normal operating conditions.

 $^{\rm 7}$ Compared to energy consumption when the system is in scan mode.

⁸ Compared to conventional technology. Data on file.

⁹ Per COCIR Self-regulatory initiative for medical imaging equipment, over a 24-hour period, with 12 hours of active day and 12 hours of inactive night scenario.



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.
Upgradeable hardware and software options are provided as a	SIGNA™ Artist Evo is GE's first 1.5T upgrade that widens the bore on legacy MR systems to 70 cm, eliminating the need to replace the system.
solution to extend the product lifespan.	The life expectancy of a GE 1.5T magnet is up to 30 years.
Parts harvesting and refurbishment options are provided to reduce waste and environmental impacts while extending imaging access to less advantaged regions.	MR 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. ¹⁰
	94–96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product. ¹⁰
Waste reduction	This system is in accordance with Waste Electrical and Electronic

Equipment (WEEE) regulations.

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.

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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	Scan up to 50% faster and reduce backlogs with AIR™ Recon DL. ¹¹
	Increase SNR and reduce scan time in a single exam.
	Diagnose with confidence with end-to-end clinical solutions like One-Stop Prostate imaging with AIR™ Coils and AIR™ Recon DL.

Keep your imaging equipment up to date with advanced clinical applications Smart Subscription protects 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.

Using a deep-learning-based reconstruction algorithm, AIR[™] Recon DL improves SNR by making use of the raw data to remove image noise and ringing.

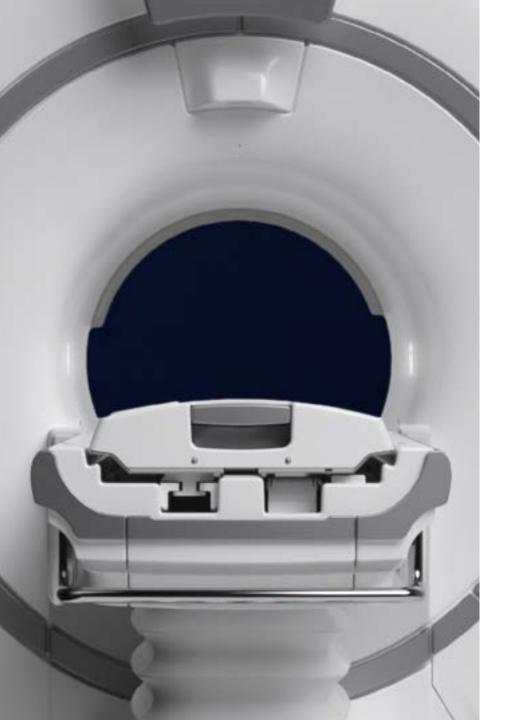


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Advancing clinical outcomes (Cont.)

Help improve patient outcomes with improved image quality 80% of cases see improved SNR without added scan time with AIRTM Recon DL.¹²

Drive advancements with precision health Wing-to-wing clinical solutions from setup to report help reduce scan times and increase precision health, including anatomy-dedicated post-processing tools and quantitative tools for measuring and assisting diagnosis.





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

Reduce scan time up to 50% with AIR[™] Recon DL.¹³

AIR x[™] automated MR slice prescription reduces setup time and provides reproducible planning to ensure exam consistency.

GE Healthcare's Imaging Protocol Manager remotely updates and manages protocols between facilities on MR systems to help deliver consistent image quality and optimal patient care.

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

MR Performance Excellence can help increase capacity by optimizing equipment usage.

Leverage on-demand or scheduled virtual clinical applications training with GE specialists to support staff, enabled by Digital Expert Access.



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Optimizing imaging operations (Cont.)

Reduce downtime	The OnWatch™ remote monitoring system reduces unplanned down time by 35% with an 11% reduction in on-site repair time. ¹⁴
	Additionally, it boasts a 43% remote fix rate with 83% of issues resolved during the first call. ¹⁴
	This, in turn, helps reduce travel and carbon footprint, as well as overall energy and waste, by keeping our systems optimally running.
	Improved thermal performance allows the magnet to stay cold longer during extended outages, and the system can immediately return to scanning when the power goes back on.
Cybersecurity	SIGNA [™] Artist Evo incorporates a broad assortment of capabilitie to enable privacy and security. The layered approach of defense in depth limits the risk that the failure of a single security safeguard will allow compromise of the system. 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	AIR Touch™ reduces set-up time by 59%.15	
	AIR x [™] allows five times faster setup with four times fewer mouse clicks. ¹⁶	
Reduce exam time	AIR Touch™ reduces patient table time by 37%. ¹⁵	
	Reduce scan time up to 50% per patient with AIR™ Recon DL, enabling improved workflow and efficiency. ¹⁷	
	Reduce overall scan times without compromising image quality with HyperSense, which can be used in 88% of all clinical procedures.	
Ease of use	AIR™ Coils optimize SNR, enabling positioning for any patient shape, while anatomy-dedicated post-processing tools unique to the specific organ system bring precision medicine into the MR suite.	
	Accelerate emergency egress with the eXpress Patient Table, which can be undocked and removed by one user in under 30 seconds, typically.	
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.	

 $^{\rm 15}$ Compared to previous generation software. Data on file.

 $^{\rm 16}$ Comparison of automated workflow with AIR x versus traditional setup process. Data on file.

¹⁷ Compared to conventional technology. 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.¹⁸

¹⁸https://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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