Radiography 7000 M

Environmental Product Brochure

PHILIPS

Contents

Doing business responsibly and sustainably

With Philips, you are choosing a partner committed to building a more sustainable and resilient healthcare for the future. Through our innovative products and solutions, we enable customers to care for patients in the best way possible, while reducing environmental impact. We act responsibly towards our planet and society, and we partner with our stakeholders to drive change beyond our own operations. We measure our impact and drive progress against our ambitious targets that are in line with the United Nations Sustainable Development Goals 3,12,13 and 17.

Advancing EcoDesign

With EcoDesign, we embed sustainability in our innovation process. By the end of 2025, we aim to design 100% of our new product introductions[1] to meet our EcoDesign requirements.

Driving circular economy

To transition to a more sustainable healthcare industry, embracing a circular economy is essential. By decoupling economic growth from the consumption of natural resources, our goal is to help customers do more with less. We do this through circular product design, smart digital solutions, innovative service models and optimizing use and responsible management (end-of-use) of materials and products.
At Philips manufacturing sites we embed circular practices, work under ISO 14001 certified Environmental Management System, and send zero waste to landfill.

Taking climate action

We have already taken significant steps to mitigate climate change and set further stretching goals to leave a healthier planet for future generations. With approved SBTi targets[2], we commit to reduce our CO_2e emissions from our sites by 75% by 2025, and 90% by 2040 (compared to 2015 levels), as well as reducing indirect (scope 3) greenhouse gas emissions across our entire value chain by 42% by 2030 (compared to 2020 levels) in line with the 1.5° C global warming scenario.

Supplier sustainability

At Philips, it is our purpose to improve people's lives.
This goal extends beyond our innovative products, systems and services to our supply chain. We invest in relationships with suppliers who provide a safe working environment, treat workers with respect, and work in an environmentally sound way. Partnering with CDP, Philips collaborates with suppliers, using the tools, expertise, and experience gained while greening our own operations, to help suppliers identify and mitigate emissions. In 2024, 48% of our purchases were made at suppliers with science-based emission reduction targets[3].
Access our Human Rights Report to learn how Philips upholds human rights within its organization and throughout the value chain.

Learn more about how Philips minimizes environmental impact.

carbon neutral operations since 2020[4]

We source 100% renewable electricity to power our operations[4]

First health-tech company

to have its entire value-chain (scope 1-3) CO_2 emissions reduction targets approved by the Science Based Targets initiative (SBTi)[2]

Philips Radiography 7000 M a responsible choice

Radiography 7000 M is a premium mobile X-ray system designed to offer enhanced care, improved operational efficiency and a lower environmental footprint. Its compact and advanced design provide exceptional system availability, easy navigation, and effortless positioning enabling you to see more patients in less time.

Automated Smart Workflow solutions help accelerate routine tasks and boost productivity. You can see beyond operational inefficiencies to innovative solutions that expand access to care. Radiography 7000 M assists in providing confident diagnosis through rapid availability of high-quality digital images and next generation image processing. This is particularly important for critical, acute areas where rapid decisions are essential.

Technologists appreciate the system's ultra-compact footprint and small turning radius along with outstanding system availability enabled through its fast-charging Li-ion battery. Radiologists enjoy high contrast images with enhanced details and reduced noise, ready moments after acquisition.

Radiography 7000 M provides tangible benefits for all involved in digital mobile radiography, while its EcoDesign improvements reduce the environmental impact[5]. By building a resilient, diagnostic infrastructure, you extend system lifetime, improve business outcomes, and drive sustainable healthcare across your organization.

Product EcoDesign features

Philips places a clear focus on life cycle assessment as key to reducing the environmental impact of technological development. The environmental improvements[5] for the Radiography 7000 M include lower energy use through optimized standby power, a reduction in product and packaging weight, and replacing the system lead acid battery with a Li-ion battery.

Product EcoDesign features

- **51% annual energy savings**[5]
- Enjoy easier and faster workflow with **26.8% reduced workflow time**[5,6]
- See **37% more patients per day** by saving 87 seconds per patient examination[6]
- Advanced battery technology for higher system availability by a **60% faster system charging time**[5] (from 0 to 100% in 4 hours with 80% capacity obtained in 2.5 hours) and **75% higher** system availability with an extended battery discharge time (14 hours)[5]
- **30 minutes**[7] **average replacement time** of system spare parts helps reduce system downtime during repair work
- Lower environmental burden through reduced product and packaging weight **(~22% and 13% respectively**[5]**)**
- **25% more compact**[5] making it easier for operators to navigate crowded areas and contributing to improved workflow

Meeting Green Public Procurement (GPP) criteria

The European Union (EU) set out voluntary Green Public Procurement criteria for several product groups including electrical and electronic equipment used in the healthcare sector. Philips EcoDesign is embedded in our innovation core business processes and through this we aim to address GPP voluntary criteria used by many of our customers including:

- Chemicals management system
- User instructions for green performance management including minimizing energy consumption during use
- Product longevity and warranty
- Energy performance data available

Our EcoDesign process

Embedding sustainability in our innovation processes

We designed and developed Radiography 7000 M following the Philips EcoDesign program, which aims to create products and solutions that have significantly less impact on the environment over the whole product life cycle. Through product Life Cycle Assessments (LCA) we determine how to reduce the environmental impact at each stage of a product's life — from raw material extraction through to end-of-life. We are continuously working to improve and address environmental impact through our key EcoDesign focal areas:

Philips EcoDesigned systems and solutions aim to improve productivity, enhance patient and staff experience and deliver high-quality output, while acting responsibly towards our planet and society.

Philips EcoDesign process follows guidelines from international standards[8].

IEC 60601-1-9
Environmental product design for medical electrical equipment

ISO 14044
Environmental management, life cycle assessment, framework and principles

ISO 14040
Environmental management, life cycle assessment, requirements and guidelines

Philips is an active member of COCIR, the European Trade Association representing the medical imaging, radiotherapy, health ICT and electromedical industries, and its self-regulatory initiative (SRI)[9] for EcoDesign for medical imaging equipment.

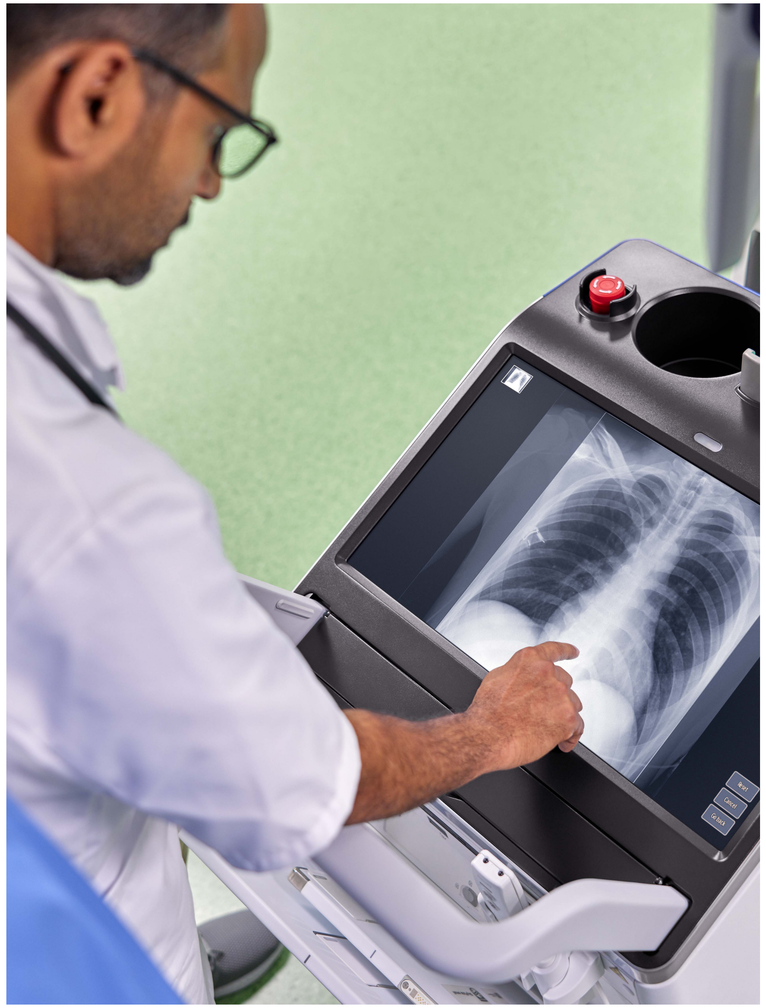
Through this group, Philips works proactively and collaboratively to reduce the environmental impact of medical imaging equipment and undertakes voluntary activities which follow the framework set by the European EcoDesign Directive (2009/125/EC).

Energy

For Philips health systems, the product's energy consumption makes a significant contribution to the lifecycle environmental impact. By improving the energy efficiency of our products, we can reduce both its energy consumption and carbon footprint.

Here we share the annual energy consumption for Radiography 7000 M based on the Philips average use scenario which is 12 hours standby / ready to scan (includes 8 hours working time to cover 80 radiographic exposures on an average), and 12 hours off mode. The daily energy consumption is calculated according to the COCIR[9] method and shared here to enable market comparison.

Off-mode:	**0 kW**
Ready-to-scan mode:	**110 W**
Scanning mode:	**9000 W**
Daily energy consumption (COCIR method):	
Scenario off:	**1.32 kWh/day**
Scenario ready-to-scan:	**2.64 kWh/day**
Scenario Low:	**1.32 kWh/day**
Annual energy consumption (Philips average use scenario):	**412 kWh/year**
Annual energy saving[5]:	**51% (426.5 kWh/year)**
Time required for battery to be 100% (from empty to fully charged):	**4 hours**



Substances

Philips' chemicals management strategy demands that we adhere to the strictest global chemical regulatory requirements for substances used in products and their manufacturing, based on stringent laws and scientifically established threshold limit values. With our longstanding belief in the precautionary principle, eliminating or minimizing the use of hazardous substances in our products and production processes is an important part of our EcoDesign process.

As required by law, compliant with:

EU RoHS:	**Yes**
EU REACH:	**Yes**
EU-POP:	**Yes**
EU MDR:	**Yes**
California Proposition 65:	**Yes**

Additionally, this product is:

Latex free:	**Yes**
Mercury free:	**Yes**
Lead free system battery:	**Yes**

Our suppliers are required to follow all the requirements stated in the Philips Regulated Substances List (RSL). The RSL is updated regularly to ensure it captures the latest requirements and concerns. It includes substances banned or required to be monitored by law. The Philips RSL covers many jurisdictions worldwide, with the most important ones being EU REACH, EU RoHS, EU POP, EU MDR and California Proposition 65. The RSL also contains a number of substances that Philips voluntarily wants to phase out or monitor from a precautionary point of view. The substances that are being voluntarily phased out by Philips include, for example, polyvinyl chloride and brominated flame retardants.

Philips collects compliance data in accordance with the RSL at part level for every product and product-packaging using the online tool BOMcheck. The BOMcheck is a web-based declaration and regulatory compliance system designed specifically to enable suppliers to provide declarations for RoHS, REACH, and any other substance legislation through detailed substances reports. It provides an industry platform that standardizes the way in which companies collect chemical composition information from suppliers.

Read more and find a copy of the Philips Regulated Substances List on our Chemicals Management webpage.

Halogenated flame retardants

Our medical electronic equipment may contain halogenated flame retardants to meet fire safety standards. However, Philips is also committed to reducing the amount and/or replacing with less harmful solutions in our products. Through the Philips Sustainability Agreement, suppliers are required to provide components and products conforming to the Philips RSL, which restricts certain flame retardants (e.g. PBDE and PBB due to RoHS, HBCDD due to EU POP legislation, TCPP and TCEP due to US CPSIA act) and requires declaration of some flame retardants, (e.g. TBBPA). Declarable flame retardants will be phased out and replaced by a sustainable solution when technologically and economically feasible.

PVC and Phthalates

Professional medical equipment produced by Philips may contain polyvinyl chloride (PVC) particularly as cable housing, where no feasible alternative is available yet. The RoHS phthalates, DEHP, DBP, BBP, DiBP, are phased out per legal date July 2021. Under the Philips Sustainability Agreement, packaging materials provided by our suppliers are required to contain less than 1000 ppm (0.1%) polyvinyl chloride (PVC) and PVC blends and free of DEHP, DBP. BBP and DiBP in plasticized materials.

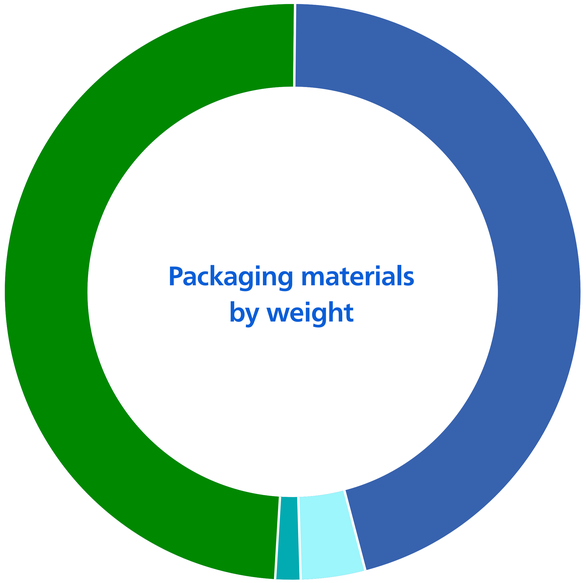
Biocides

Philips has adopted a strict biocide policy avoiding the use of biocides and only permitting them if no other technically feasible solution has been identified. Biocides are restricted as per the RSL in line with EU Biocidal Product Regulation (although medical devices are exempted from this regulation) and safety aspects of using biocides are part of EU MDR.

Bisphenol-A (BPA)

BPA is not intentionally added to our products although polycarbonates and epoxy materials present in our products can contain traces of the BPA precursor that is used to make these materials.

Packaging



- **49.9%** Ferro metal
- **45.4%** Wood
- **4.1%** Plastics PE
- **0.7%** Plastics PP

During the sustainable packaging design process, we consider weight and volume reduction and, also smart material choices, without compromising the performance of the packaging.

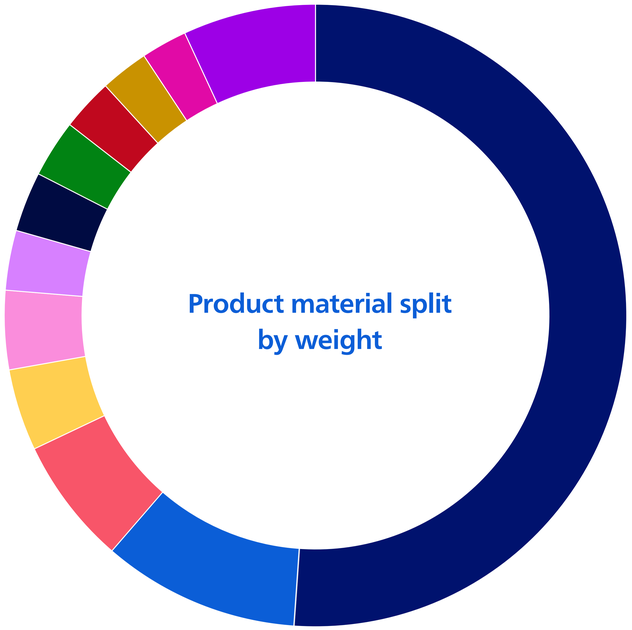
The data shows average values for packaging for Radiography 7000 M. Actual packaging is conditional and adjusted to shipment needs.

Total weight:	**70.5 kg**
Ferro metal:	**35.2 kg**
Wood:	**32 kg**
Plastic:	**3.4 kg**
Plastics – PE:	**2.9 kg**
Plastics – PP:	**0.5 kg**

- **No use of polyvinylchloride (PVC)** and expanded polystyrene (EPS)
- **Wood is 100% FSC Certified**
- **Reduction in packaging weight/volume** is 10.5 kg (13%)/0.8 m^3 (34.1%)[5]

Circularity

Including weight & materials



- **51.1%** Stainless Steel
- **10.2%** Aluminum
- **6.6%** Battery (Li-ion)
- **4.3%** Ferrite
- **4.1%** Polycarbonate
- **3.1%** Capacitor
- **3.1%** Steel Sheet
- **3.0%** Cable
- **2.7%** Polyurethane
- **2.5%** Motor
- **2.4%** Copper
- **6.9%** Other

By applying circularity principles across the value chain; *use less, use longer, use again,* we are helping healthcare teams do more with less. We aim to maximize the lifetime value of our products and solutions for our customers, while minimizing the consumption of virgin and non-renewable materials and eliminating waste.

Weight:	**450 kg**
Type / Number of batteries:	**Li-Ion Battery/1 Unit**
Weight reduction[5]:	**22% (130kg)**
Recycling passport available:	**Yes**

Software can help maximize the utilization of hardware, allowing you to do more with less

SkyFlow Plus enables the more efficient use of Radiography 7000 M by eliminating the need for retakes due to grid misalignment, thereby potentially reducing X-ray dose. It combines the ease of gridless acquisition workflow with the contrast quality of grid images.

With SkyFlow Plus, you can save 34 seconds on average per chest examination versus grid workflow[10] allowing you to fully focus on patient care with its automatic, adaptive technology.

- **Service and spare parts available**[11,12]
- 100% committed to **responsible take-back** of systems[11, 13]

Our approach to LCAs

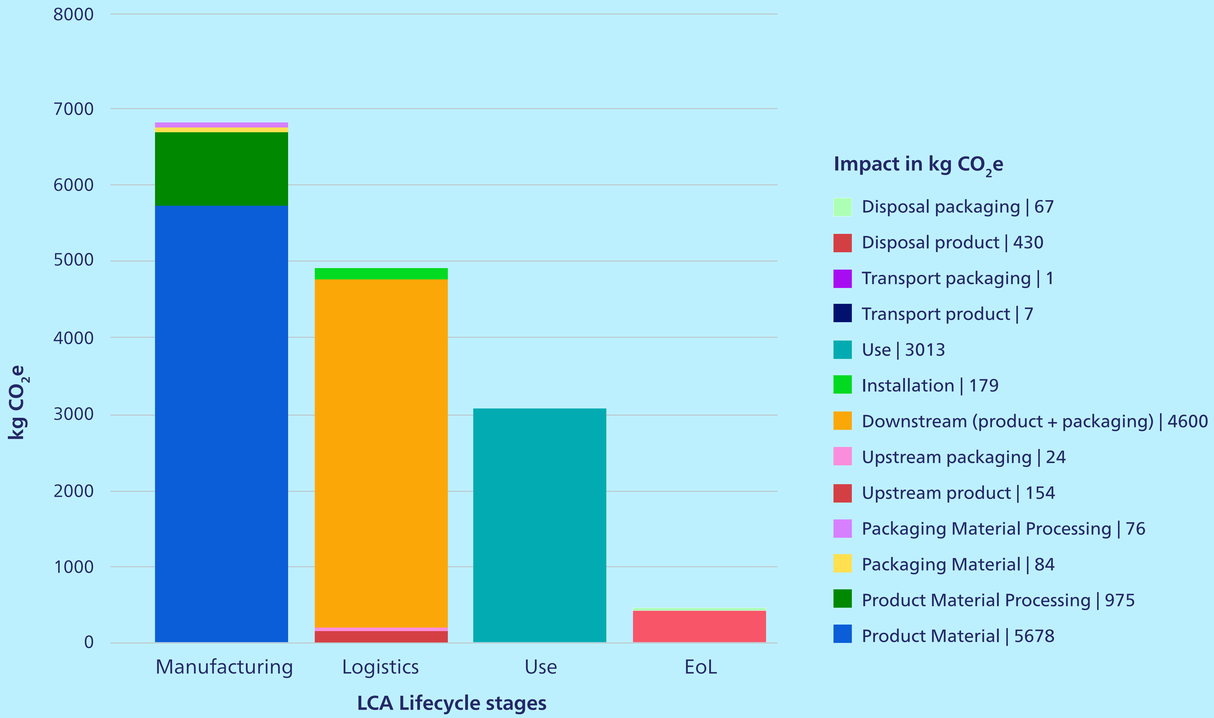
We conduct Life Cycle Assessments (LCAs) to quantify the environmental impact of products over the entire life cycle[14]. Philips follows guidelines from ISO 14040 and ISO 14044 to ensure our studies are consistent. Conducting an LCA which focused on climate change impact for Radiography 7000 M enables us to assess the Product Carbon Footprint (PCF). The graph shows the PCF which helps our customers to understand which lifecycle stage has the biggest impact on climate change. The PCF has been externally verified to ISO 14067[15]. This third-party check provides verification that the analysis has been conducted accurately.

The results of this LCA study are not comparable with the results of other studies.

Functional unit:	**Provide one medical imaging device for hospital use, to take X-ray for diagnoses of bones or organs over a lifetime of 10 years.**
LCA methodology:	**IPCC 2021 GWP 100 years**
Use phase geography:	**Global**
Third party verification (in line with ISO 14067):	**Yes**

The carbon footprint calculations for operations are based on average emission factors, therefore the graph does not show the impact of Philips carbon neutral operations[4].

Carbon Footprint across the life cycle stages



Product Carbon Footprint results and interpretation

The most significant factor of the carbon footprint of Radiography 7000 M is manufacturing, in particular the raw materials used in the product. Deeper analysis shows the biggest impact is due to 5 materials: stainless steel, the logic board, aluminium, the capacitor and the battery. The second most impacting life cycle stage is logistics. Depending on customer location, our analysis showed a change in the range of -7% to 39% - compared to the baseline.

In our LCA study we use a “cut-off approach” in our end-of-life modeling for both, product, and packaging. This means credits/liabilities for recycling product and packaging materials are excluded.

ESG recognition

Philips is a recognized leader in environmental sustainability which builds on its strong reputation across Environmental Social Governance dimensions.

Climate Water
CDP
A List
2024

CDP A list Climate & Water

In 2024 Philips was recognized as a climate action leader by CDP for the 12th consecutive year and a double A lister (Climate and Water) for the third consecutive year

Supplier Engagement Leader
CDP
2024

CDP Supplier Engagement

In 2024 CDP recognized Philips again as a supplier engagement leader for the 9th year in a row

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Science Based Targets

In 2022 Philips became the first health technology company to have its entire value-chain CO_2 emissions reduction targets (scope 1-3) approved by the Science Based Targets initiative (SBTi)

76/100

Ecovadis

In 2025 Philips achieved a 76/100 score in the EcoVadis assessment, putting the company in the top 2% of those rated for the "Manufacture of medical and dental instruments and supplies" industry.

Care means the world

Philips is leading the transition to sustainable healthcare. It's no longer sustainability or healthcare. We focus on improving both our operations but also on collaborating with our customers and supply chain to address our environmental responsibility, building sustainable and low carbon healthcare. The only way forward is sustainable care — where the best care for patients does no harm to the planet.

Read more about our Environmental Social and Corporate Governance commitments.

Footnotes

1 This excludes software, products sourced from third parties, and products that are created from an existing platform

2 Science-based targets provide a clearly-defined path to reduce greenhouse gas emissions in line with the Paris Agreement goals – limiting global warming to 1.5°C above pre-industrial levels

3 48% based on spend

4 Our operations include all Philips manufacturing sites, offices, warehouses, business travel and logistics. We source 100% renewable electricity and offset remaining greenhouse gas emissions.

5 Compared to Philips Radiography 5700 M — MobileDiagnost wDR

6 Validated by 15 out of 15 technologists in a test environment

7 Replaced one at a time, applicable for 80% of the total spare parts

8 The listed standards are used as guidelines and do not imply certification by third-party unless explicitly stated

9 More information about COCIR Self-Regulatory Initiative (SRI) can be found here COCIR: Ecodesign Initiative. COCIR method for calculating energy consumption for X-Ray equipment is on page 7 of this document COCIR_SRI_-_Xray_Methodology_for_measurement_of_energy_c.pdf

10 Whitepaper 'Grid-less imaging with SkyFlow: Time savings and workflow improvements'. More information can be found here SkyFlow Plus:scatter correction for non-grid X-ray exams - Philips

11 Subject to availability in your country

12 10 years product lifetime

13 Provided upon customer's acceptance of our trade-in offer or as a service at customer request. Excluding systems/equipment sold via distributors, non-Philips equipment and accessories and consumables. Equipment returned to Philips is, where feasible, made available for parts recovery, or locally recycled in a certified way

14 The results of this LCA study may not comparable with the results of other studies, for example LCA studies that have not been completed by Philips. To be able to compare LCA studies, both products have to be defined in same scope of assessment.

15 ISO 14067 standard specifies principles, requirements and guidelines for the quantification and reporting of the carbon footprint of a product in a manner consistent with the International Standards on life cycle assessment (LCA) (ISO 14040 and ISO 14044)

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www.philips.com/sustainability