williams

greenlogic

Our commitment to sustainable refrigeration

2,298 solar panels generate over

35%

of our energy

100%

of our **food storage cabinets** use **natural refrigerant**

our products are

99%

recyclable

“Greenlogic forms an important part of Williams Corporate Social Responsibility. All three of our manufacturing plants (UK, Australia and China) are committed to, and certified with, the prestigious ISO 14001 Environmental Management Standard.

“We work extremely hard as company to maintain and continually develop our green processes to provide sustainable refrigeration in today’s market.

“Our ‘Innovation at the Core’ initiative outlines our continued efforts and investments to make the company, and environment, a greener place. Through Greenlogic, we strive towards a greener future.”

Tim Smith
MD of Williams Refrigeration and CEO of it’s parent, the AFE Group

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Introduction

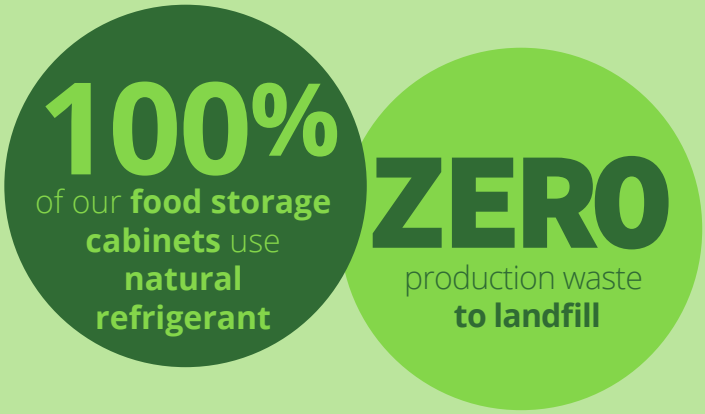
Greenlogic, part of our Corporate Social Responsibly (CSR) initiative, is Williams' commitment to supplying the most energy efficient and sustainable commercial refrigeration in today's market.

Greenlogic doesn't just cover product design and manufacture, it also involves our plant and processes too. A key part of our initiative is to inform and advise where possible on potential and frequently asked questions regarding our environmental commitment through our valuable support pages.

Williams has achieved ISO 14001 certification across all of our manufacturing plants (UK, Australia and China), for the design, manufacture and installation of refrigeration products.

We recycle 99% of production waste with nothing being sent to landfill and maintain that 99% of materials used in manufacture are recyclable. Sustainable practices are key to the ongoing success at Williams, with further eco-initiatives continually being developed.

Our Greenlogic guide includes a focus on our three core areas; Product, Plant and Processes.



Engineering Design / Green Refrigeration

99% recyclable product / Low GWP & zero ODP insulation / Natural refrigerant as standard

Williams' commitment to green refrigeration stretches back decades. In the 1980s we were the first manufacturer to develop CFC-free insulation. In the 1990s we developed the first catering refrigeration to use environment-friendly refrigerant with an Ozone Depletion Potential (ODP) of zero. We've continually pioneered a raft of greener technologies, ranging from energy-saving 'Smart Controllers' to systems using eco-friendly refrigerants including natural hydrocarbon.

Our products are 99% recyclable, reducing the impact on future landfill. The remaining 1% consists of condensate from compressors, which is treated by a third-party partner. Even our used oils go through a purification process that sees them refined and filtered, with the oil residues burnt in furnaces to make energy.

Foam is shredded and bailed, which is also used to produce energy.

We believe it is paramount to ensure our products are as sustainable as possible and apply active and continual consideration for each and every component. We are not just looking at the contribution they make to the product's overall energy efficiency, but also the impact they have on the environment, ensuring they have been manufactured using a sustainable and ethical process.

GREENLOGIC REFRIGERANTS

Williams continue to pioneer and promote the use of alternative, environment friendly natural refrigerants as standard across its ranges.

Williams first developed the use of natural hydrocarbon refrigerant back in 2007 and began exclusively introducing greener refrigerants for much of its ranges, including reach-in models and modular products, in 2013.

Now, we use natural refrigerants as standard for all our food storage cabinets.

Our CoolSmart Controller minimises a cabinet's energy consumption through processes such as fan and heater pulsing, intelligent defrost and independent management of evaporator and condenser fans.

Our insulation delivers structural strength and superior thermal properties while minimising environmental impact through low GWP (Global Warming Potential) and zero ODP (Ozone Depletion Potential).

Our low energy fans resist corrosion to maximise service life. Our coils are electro deposition dipped – an advanced high quality cathodic coating technology. This has a lower environmental impact due to a reduction in the amount of solvents used.

Our products also include a comprehensive choice of additional energy saving features and options such as self-closing doors, heavy duty gaskets, half doors and drawer packs.

Engineering Design / F-Gas & Hydrocarbon refrigerant

F-GAS

F-Gases are man-made refrigerants which have often been used instead of ozone depleting substances such as chlorofluorocarbons (CFCs) & hydro-chlorofluorocarbons (HFCs). However, F-Gases are powerful greenhouse gases, with a global warming effect of up to 23,000 times greater than Carbon Dioxide.

There has been an important change to F-Gas Regulations in recent years to reduce emissions of greenhouse fluorinated gases (F-Gases) used in refrigeration (and air conditioning).

The original F-Gas regulation in 2006 focussed on controlling emissions through improved installations, F-Gas recovery and engineering training.

The updated regulation in 2014 aimed to achieve a 79% cut in emissions across the EU from 2015 to 2030.

From 2015 revised F-Gas regulations saw further measures taken to contain the gas e.g. leak checks and regular record keeping.

To further help achieve the 79% target, legislation now includes the ban on some F-Gases and encourages the use of technologies operating on refrigerants with a significantly lower Global Warming Potential (GWP).

LEGAL RESPONSIBILITIES

Owners of equipment containing F-Gas must adhere to a number of legal responsibilities and breaching them can potentially lead to fines, penalties or criminal offence charges. In the UK, infringements can result in fines from £1,000 to £200,000.

If your business carries out the installation or servicing of refrigeration or air-conditioning containing F-Gas refrigerants then by law, an F-Gas company certificate must be obtained and renewed every three years.

Further information available here https://bit.ly/2Fofqww

HYDROCARBON REFRIGERANT

Natural hydrocarbon refrigerant reduces energy consumption by up to 15% due to its excellent thermodynamic properties and it almost eliminates any environmental impact due to its low GWP and zero ODP.

Our low energy compressors, specifically designed for use in hydrocarbon units, are all VDE approved, and all current products fall below the 150g threshold for hydrocarbon equipment.

We have taken measures to ensure our manufacturing process is fast, efficient and safe and have recently invested in a fourth automatic charging and evacuation station for hydrocarbon refrigerants.

DID YOU KNOW?

COSTS – Even though service technicians can still provide refrigerant maintenance to equipment operating on R404A or R134a, the costs are likely to drastically rise due to reduced availability in these gases.

Latest industry findings suggest that the ban from January 2020 on refrigerants with a GWP of 2,500 or more has seen a significant increase in reclaimed gas prices, with these as high as twice the price of virgin gases.

This data has been produced on behalf of the European Commission by German consultancy Öko-Recherche.

Therefore, investing in newer equipment using a natural refrigerant will not only increase best environmental practice but can also potentially decrease maintenance costs.

NEXT STEPS – Acting on the phase out sooner rather than later can save time and money, as well as boost eco-initiatives.

Things to consider when initiating your own phase out plan include replacing equipment over 5 years old which are out of warranty, identify refrigerant gas used in new models and finding out more information on efficiency and performance via the distributor or manufacturer.

Williams Refrigeration can help in these areas as well as being able to provide a flexible payment solution to spread the cost of quality, market leading refrigeration equipment.

F-GAS REGULATIONS KEY DATES

From 2020
All refrigeration equipment running on HFCs with a GWP of 2,500 or more have been banned since 1st January 2020. This includes R404A refrigerant.

From 2022
All F-Gases with a GWP of more than 150 will be banned in the sale of reach-in models. This includes R134a refrigerant.

From 2030
Reclaimed and/or recovered refrigerants with a GWP of more than 2,500 for service and maintenance for refrigeration and freezer equipment will be banned. This includes R404A refrigerant.

After Sales / Service
Regulation guidelines state that an F-Gas with a GWP of more 2,500 can be used only if it has been reclaimed or recovered from similar equipment and up until 2030. **'Retrofilling'** is encouraged. F-Gas is removed from the system and replaced with an alternative with the lowest possible GWP, or to fully replace the refrigeration system with new equipment that uses a refrigerant with a lower GWP.

THE WILLIAMS RESPONSE

Williams first developed the use of R290 hydrocarbon refrigerant in 2007 and began introducing it to many of our ranges in the subsequent years, while also incorporating other natural refrigerants R600a and R452A in reach-in models and modular and blast cabinets respectively.

Williams is actively monitoring current regulation where models require more than 150g of hydrocarbon refrigerant as well as continuing to introduce natural refrigerants as standard across our ranges, where feasible to do so.

Engineering Design / Testing

1

2

3

1 Environmental Test Chambers

2 Beverage cooler on test

3 Refrigerated cabinet on test

4 Leak testing equipment

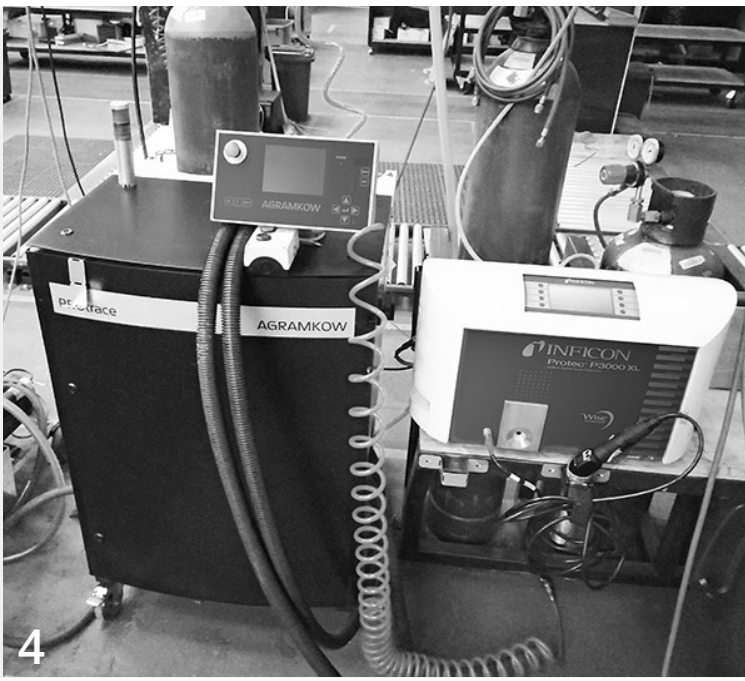
Zero Leak Strategy

Williams has adopted a zero tolerance refrigerant leak strategy. All coils are pre-tested and tested again when the refrigeration system has been assembled using industry-best helium sensors - capable of detection to just 0.5g per annum.

Systems are purged during brazing with Oxygen Free Nitrogen (OFN) to reduce carbon build up, extending both component and product life.

Williams has invested across all manufacturing plants in the latest leak detection technology that brings new levels of reliability to leak testing. Each and every cabinet is leak checked prior to being charged with refrigerant.

The leak detectors are highly sensitive and specifically designed for our demanding production environment and have a minimum detectable leak rate of 0.05 grams/annum.



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Engineering Design / MEPS & ETL

MEPS (Minimum Energy Performance Standard)

The Minimum Energy Performance Standard came into effect in July 2016 for professional refrigerated storage cabinets and counters (BS EN 16825/EN ISO 22041).

It is set by The European Commission to limit the maximum amount of energy that may be consumed by a product, while in operation. The temperature and energy performance are tested and ranked against the Test Standards and is displayed in the form of an energy label.

From July 2019, the energy label for professional cabinets and counters has displayed energy efficiency classes ranked A+++ to G (formerly A to G).

There is currently no label required for Blast Cabinets but in 2016 it became mandatory to declare energy data within the Operating Manual. Tests are conducted to BS EN 17032.

Energy labels for products bound for the UK market will have a Union Jack printed on the label, while products bound for the European market will have the flag of Europe.

From January 2019, suppliers have been required to register all equipment requiring an energy label with the EUROPEAN PRODUCT DATABASE for ENERGY LABELLING (EPREL) .This database went live to the public via the EPREL website in March 2021. (https://bit.ly/3ff5BAv)

Since March 2021, Display Cabinets (BS EN ISO 23953) and Beverage Coolers (BS EN 16902) also have a minimum energy threshold and label applied.

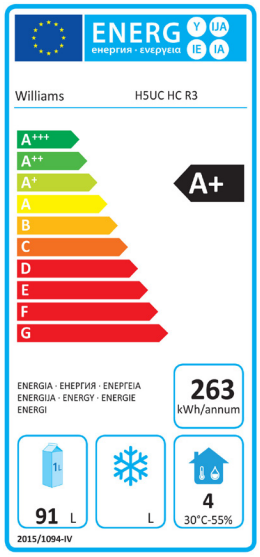
Energy labels for Display Cabinets and Beverage Coolers include a QR Code, taking the end user directly to the manufacturer's website if within the UK or the EPREL website if sold within the EU.

The tests prescribed within the above Test Standards are conducted within Williams' four independently calibrated environmental test chambers.

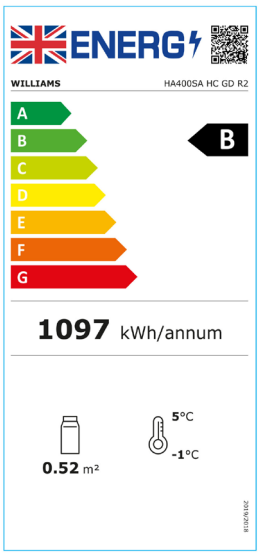
Future potential MEPS changes:

• Coldrooms
Waiting for enforcement date to be announced

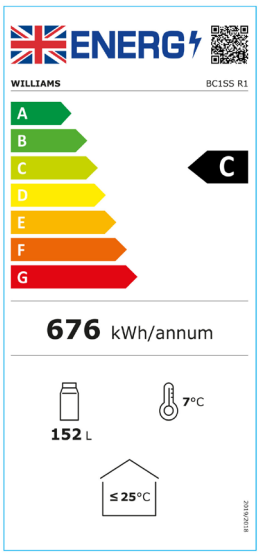
• Refrigerated storage cabinets and counters for Professional use
currently not encompassed by the scope of the standard. For example preparation counters fitted with a gastronorm well



CABINETS & COUNTERS



DISPLAY CABINETS



BEVERAGE COOLERS

ETL (Energy Technology List)

The ETL (Energy Technology List) is a government-managed list of energy-efficient plant and machinery. It is part of the ECA (Enhanced Capital Allowance) tax scheme for businesses. However, from April 2020 the scheme ceased to offer any tax relief of buying products from the ETL.

Despite this amendment to its process, the ETL still acts as an important tool, with buyers safe in the knowledge that every product listed complies with ETL scheme standards and are energy-efficient.

Williams has a number of products on the ETL.
Scan this code to see the full list.

Energy Technology List
ECA SCHEME

Product / JADE HJC2

Available with a comprehensive choice of energy-saving features and options

JADE

Options include self-closing doors,
heavy duty gaskets, half doors and drawer packs.
Scan the code to view the Jade range.

HYDROCARBON REFRIGERANT

Has a low GWP/zero ODP and energy consumption is reduced by 15% due to its excellent thermodynamic properties.

COOLSMART CONTROLLER

Energy reductions of up to 15% by detecting changing situations, instigating economy mode when use is low – keeping energy use to a minimum, while ensuring food safety at all times. Intelligent defrost function ensures the evaporator works more efficiently. Compressor starts can be limited, reducing wear and tear and prolonging compressor life.

FAN CUTOUT SWITCH

Maintains constant temperature when door is open.

AIR DUCTS PROVIDE EVEN AIR DISTRIBUTION

Maintains constant temperature, reducing energy consumption.

HIGH PERFORMANCE HELIUM LEAK TESTED

Guarantees system efficiency, reducing energy consumption.

ELECTRO-DEPOSITION DIPPED COILS

Reduces corrosion leading to longer shelf life. Lowers environmental impact due to reduced solvents and streamlined application process.

GREENLOGIC PRODUCT DESIGN CRITERIA

All Williams products must meet our strict environmental criteria, alongside the wider issues of practical kitchen operation, food safety and hygiene.

- Sustainability
- Long service life
- Innovation
- Refrigerant selection
- Value for money
- Serviceability
- Food safety and hygiene
- Minimal environmental impact
- Operating and whole life cost benefits
- Regulatory conformity/third party verification
- Performance – build quality, reliability, safety

PRECISION INJECTED HIGH DENSITY INSULATION

Superior thermal properties Low Global Warming Potential (GWP) and zero Ozone Depletion Potential (ODP).

Plant and Manufacturing

Williams holds the Environmental Management certification ISO 14001 for the design, manufacture, installation and servicing of refrigeration products.

We are committed to reducing our environmental footprint - monitored by trained staff to ensure we maximise 're-use and recycling' to minimise waste. We have also maintained being a zero to landfill business for a number of years.

In 2019 we set a target to reduce both electricity and gas levels by 10% over two years. Year-to-date figures are currently standing at a reduction of 29.5% and 20.6% respectively with further reductions still to be made.

We are a low user of energy for a company of our size. We have achieved these results through a combination of hard work, vigilance and innovative procedures.

We are committed to 100% recycling of scrap metal and plastic waste. Scrap metal is segregated into purpose made skips and then transferred to waste recycling centres where it is cleaned and sampled for re-use.

Plastic waste is also segregated into a dedicated skip and collected by Valpak, a leading provider of environmental compliance, for sustainable recycling. Furthermore, all the wood we use is sourced from FCS suppliers, with pallets re-used and waste wood 100% recycled.

Our packaging is 100% recyclable, although the bulk of the packaging is reused.

We reuse shredded office paper for spare parts packaging; all waste and by products are colour coded to allow easy identification for despatch to specialist waste processors.

Suppliers must also adhere to strict criteria to minimise their packaging.

Although we have a continued increase in production output we have consistently reduced our packaging tonnage, with over 1 tonne of cardboard being recycled a month.

Zero to landfill

Collaboration with our waste contractor is important. We work closely to achieve environmentally sound solutions for waste management and we are committed to continual improvement of our Environmental Management System (EMS) to enhance our environmental performance.
We follow key principals to support this, which include:

- Comply with legal and regulatory compliance obligations
- Promote environmental awareness throughout the company
- Identify environmental implications of our activities and establish methods to minimise impacts
- Ensure staff are well trained on environmental risks and solutions
- Maintain effective EMS that details thorough procedures and practices
- Ongoing review of environmental performance

We apply the same rigorous standards to liquid waste. We only use chemicals that are strictly required by our processes – and alternatives are actively sought for any considered harmful. All staff are fully trained with Spillage Procedures.

Regular inspections ensure nothing can contaminate the local drain system. Residues are collected, separated and sent to specialist waste handlers for treatment.

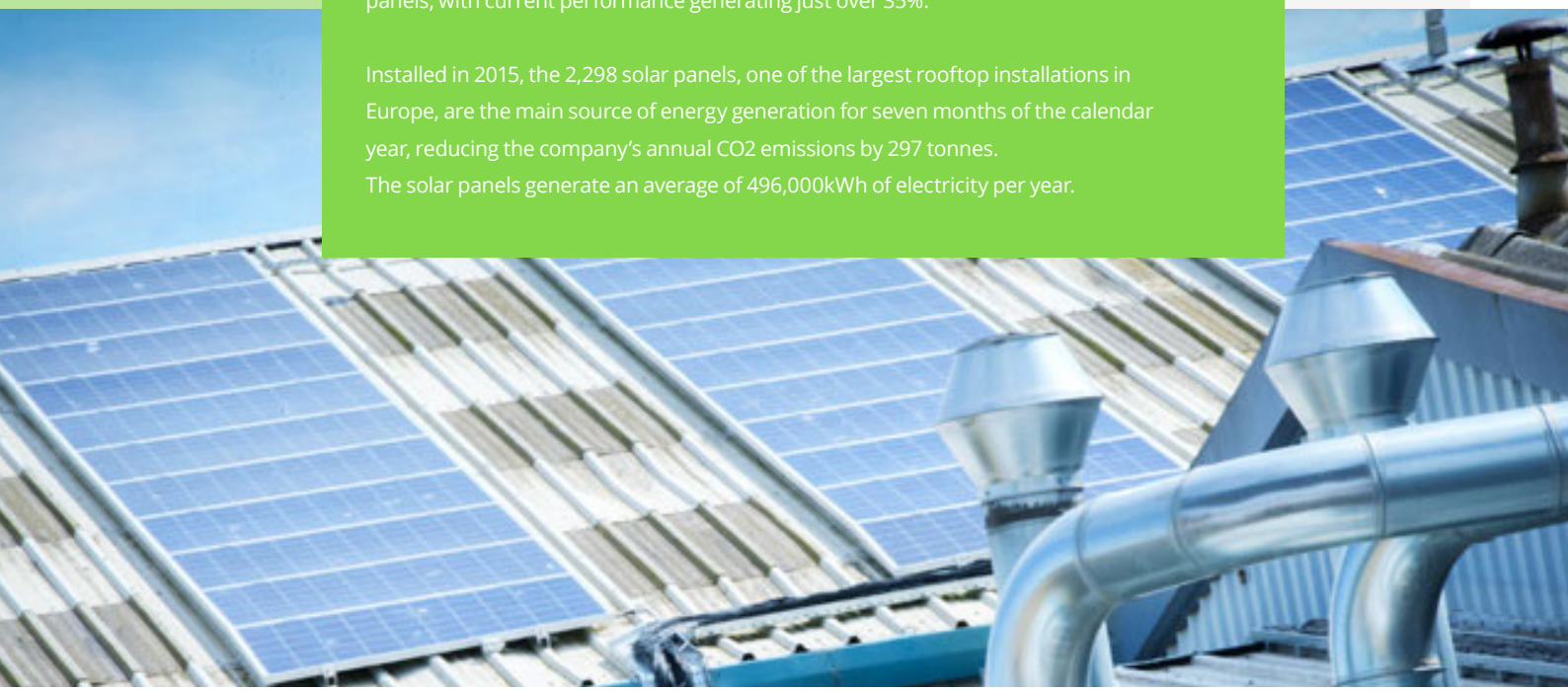
We continue to invest in comprehensive energy-saving technologies, from low energy lighting to speed-shut doors that conserve heat in the production area. Our energy-saving procedures range from minimising heating by sharing office space to function-testing cabinets overnight using off-peak electricity.

A number of energy reduction/environmental impacts and initiatives continue to be reviewed, which include;
- Air compressor efficiency
- Heat leakage
- Plant & equipment energy monitoring
- LED lighting in other areas of the business
- Gas & electricity usage
- Recycling of materials (Cordex used for the protection of materials in manufacturing)

2,298 Solar panels

Another key and crucial area in our energy-saving initiative is through our solar panels. In 2019, we set a two year target to generate an average of 25% energy from the solar panels, with current performance generating just over 35%.

Installed in 2015, the 2,298 solar panels, one of the largest rooftop installations in Europe, are the main source of energy generation for seven months of the calendar year, reducing the company's annual CO2 emissions by 297 tonnes.
The solar panels generate an average of 496,000kWh of electricity per year.



Plant and Manufacturing Investment

In recent years Williams has invested heavily in new machinery and equipment at our King's Lynn headquarters, reaffirming our ongoing commitment to quality, reliability and energy efficiency.

Since 2016, our UK manufacturing plant alone has seen almost £2 million of investment. In December 2019, £250,000 was invested on new machinery that has contributed significantly to energy reduction as well as producing 50% less material waste.

MOST RECENT INVESTMENTS IN NEW TECHNOLOGY

Two automated punching stations - Servo motors have replaced hydraulic punch, reducing energy requirement from 12 kWh to 5 kWh.

Approximately 60% reduction in energy usage.

LED lighting installed in Plant 2 & Warehouse.

Approximately 127,000 kWh p.a. reduction in energy usage.

Processes / Greenlogic Roadmap

100% Reclaim & recycling / Zero to landfill / Year-on-year energy use reduction

As we continue to develop and adapt our processes we also encourage our staff to think about sustainability at all times, from switching off equipment that's not being used, to avoiding unnecessary use of resources and ordering products made from recycled materials.

In terms of logistics, we minimise our transport's carbon footprint with planned deliveries, full loads and using fuel-efficient vehicles, with some already hybrid tuned.

Maintenance is regularly undertaken to ensure the fuel-efficient vehicles are maintained to the highest standard and all vehicles are compliant with the London Low Emission Zone.

We continue to invest in green transport technologies, such as transponders, GPS trackers, catalytic reduction and 'opticruise' boxes.

A significant investment has recently been made into a new ERP software system. Due to go live in 2022, this will further improve component and shipping resource planning alongside factory production efficiencies, also adding to the company's eco-initiatives by significantly reducing paper usage.

Williams is a 100% reclaimed or recyclable company. This is maintained through our WEEE Directive (Waste Electrical and Electronic Equipment), which offers a comprehensive scheme for the decommissioning and removal of products brought since January 2007.

As all our products are 99% recyclable, you can be sure that the refrigeration you buy today won't end up at landfill. We can also dispose of old units upon replacing, be it a Williams or any other manufacturer, to make sure these are treated responsibly.

Old units enter a process of being scrapped for parts that are fit for reuse, otherwise recycled or reclaimed.

In some cases, for our own used-models that still have prolonged life, we offer them as donations where applicable.

WASTE MANAGEMENT

Prevention – We have a network of service partners covering the UK with fully qualified refrigeration engineers to the latest certifications, including F-Gas trained, that can assist on any product sold with warranty. Our engineers aim to repair a product on the first visit and regularly stock a range of spares to make the process as easy and flexible for our customers. If an alternative part is required, this will be ordered and processed as a priority. We also offer a series of 'How To Guides' on our website covering categories on installation, cleaning and maintenance to help customers prolong the life of their equipment.

Preparing for Re-use – For when spares are needed, we offer a national and international spares, service and technical support team that you can access through any of our offices, as well as via our network of appointed dealers and service partners.

We are a market leader in product manufacture, delivery, support and service, which we strive to maintain by consistently reviewing our processes.

Recycling – Our products are built to last with robustness and reliability in mind. When they reach their end of life, they are 99% recyclable.

Recovery – As part of our enhanced delivery service, we also offer a recovery service for appliances no longer required. We even safely remove non-Williams refrigeration equipment as part of this service.

Disposal - End of life commercial refrigeration appliances are classified by the Environment Agency as hazardous waste and must be disposed of in a safe manner. We offer a fully licensed safe disposal service for your end of life redundant refrigeration appliances.

MORE INFORMATION **https://bit.ly/2ZjdBv6**

SUPPORT

The Greenlogic commitment to customer support isn't just about helping you make the right refrigeration buying decision. It's also about supporting you throughout the life of the equipment, as well as providing helpful tips on frequently asked customer questions, advice on new legislation and other regulatory schemes.

FEA Foodservice Equipment Association
Information Involvement Influence

TREES FOR CITIES

The FEA and Trees for Cities collaboration provides FEA members with the platform to offset their carbon footprint, provide cleaner air for the next generation, reduce noise pollution in inner city areas and educate children in the importance of nurturing the environment.

Processes / BREEAM

100% Reclaim & recycling / Zero to landfill / Year-on-year energy use reduction

BREEAM (Building Research Establishment Environmental Assessment Method)

BREEAM®

The Building Research Establishment Environmental Assessment Method (BREEAM) is the most widely used environmental assessment method for commercial buildings.

Credits are gained through the measurement of various criteria relating to product build including the use of hydrocarbon refrigerant, Global Warming Potential (GWP) and refrigerant leakage detection.

Scores are determined by the aforementioned criteria with achieved credits going towards the overall BREEM rating. Scan the code below to visit the **BREEAM** website.

WHAT WE DO

Williams works closely with foodservice consultants on many major projects helping them to gain valuable BREEAM points for the end-user, which in turn helps as a guide to starting the BREEAM rating journey.

For example, we offer internal thermal imaging of our coldrooms within our handover documentation, proving that the client is receiving a box that has a tight thermal seal for all panel joints – compliant with The Institute of Refrigeration's Code of Practice.

annual CO^2 emissions reduced by **297** tonnes

CLIMATE CHANGE COMMITMENT

Responding to the impact of global warming, the UK government introduced a number of environmental taxes and relief schemes encouraging businesses to operate in a more environmentally-friendly manner.

The Climate Change Levy (CCL) is an environmental tax charged on the energy used by businesses. It has replaced the former Carbon Reduction Commitment (CRC), which was phased out in July 2019 in an effort to significantly streamline the business energy tax landscape.

The CCL is designed to encourage businesses to be more energy efficient in how they operate, helping to reduce their overall greenhouse emissions. Lower CPS (Carbon Price Support) rates of CCL also encourages businesses to generate their own electricity using low-carbon technologies.

Williams works actively on reducing our impact to global warming. We have been generating energy through our solar panels since 2015, reducing the company's annual CO2 emissions by 297 tonnes per annum.

Processes / Delivery

Modern trucks with a Euro 6 diesel engine feature a 97% reduction in particle emissions

Euro 6 Diesel Engines

Our delivery fleet uses Euro 6 diesel engines, a modern combustion engine that is becoming even cleaner and more sustainable.

This type of engine is 20% more efficient and cost-effective with 20% less fuel consumption than previous trucks, while also being fully compliant with current London Regulations.

Advanced fuel injection technologies and exhaust emissions treating systems has reduced CO2 emissions by 20%.

Modern trucks with a Euro 6 diesel engine feature a 95% and 97% reduction in nitrogen oxide emissions and particle emissions, respectively.

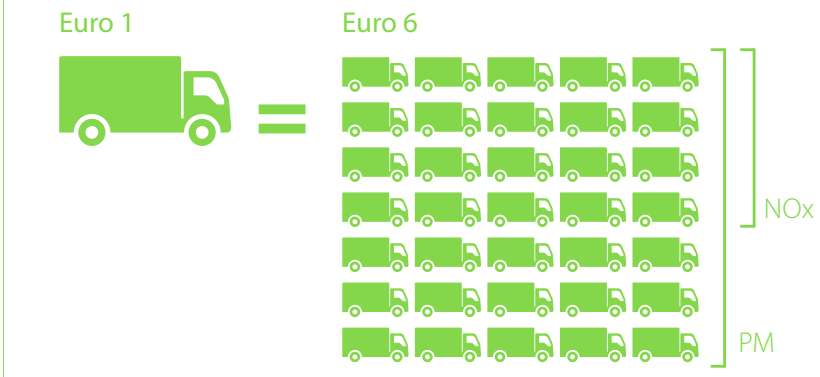
New types of eco fuel like Hydro-treated Vegetable Oil (HVO) and Power to Liquid are continually being developed.

particle emissions reduced by **97%**

MODERN EURO 6 DIESEL ENGINE EMISSION REDUCTIONS

NITROGEN OXIDE (NOx) EMISSIONS:
One Euro 1 truck from 1994 produces the same amount of NOx as 20 modern-day trucks.

PARTICLE EMISSIONS:
One Euro 1 truck from 1994 produces the same amount of pollution as 35 modern-day trucks.

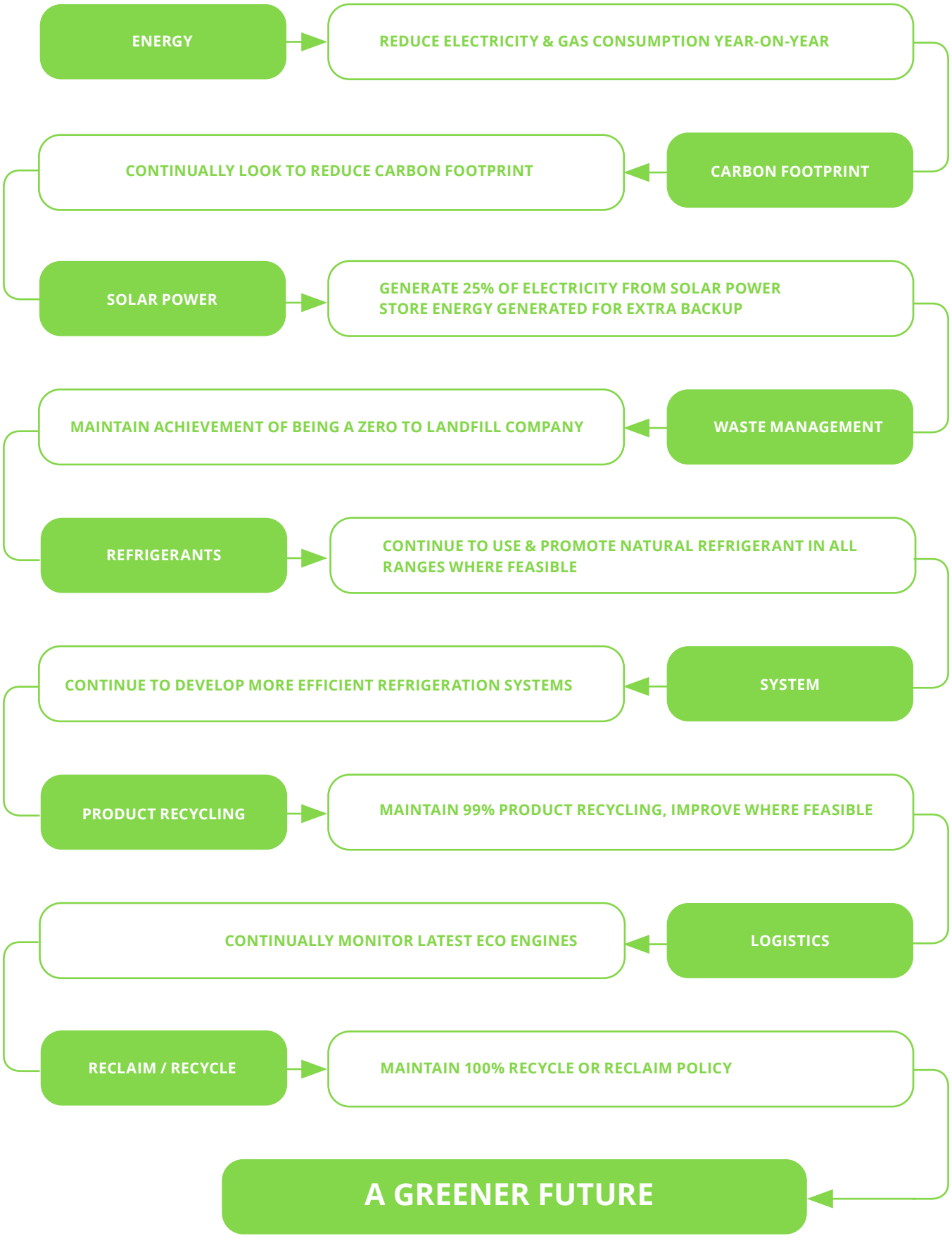


Safe Disposal of Redundant Appliances

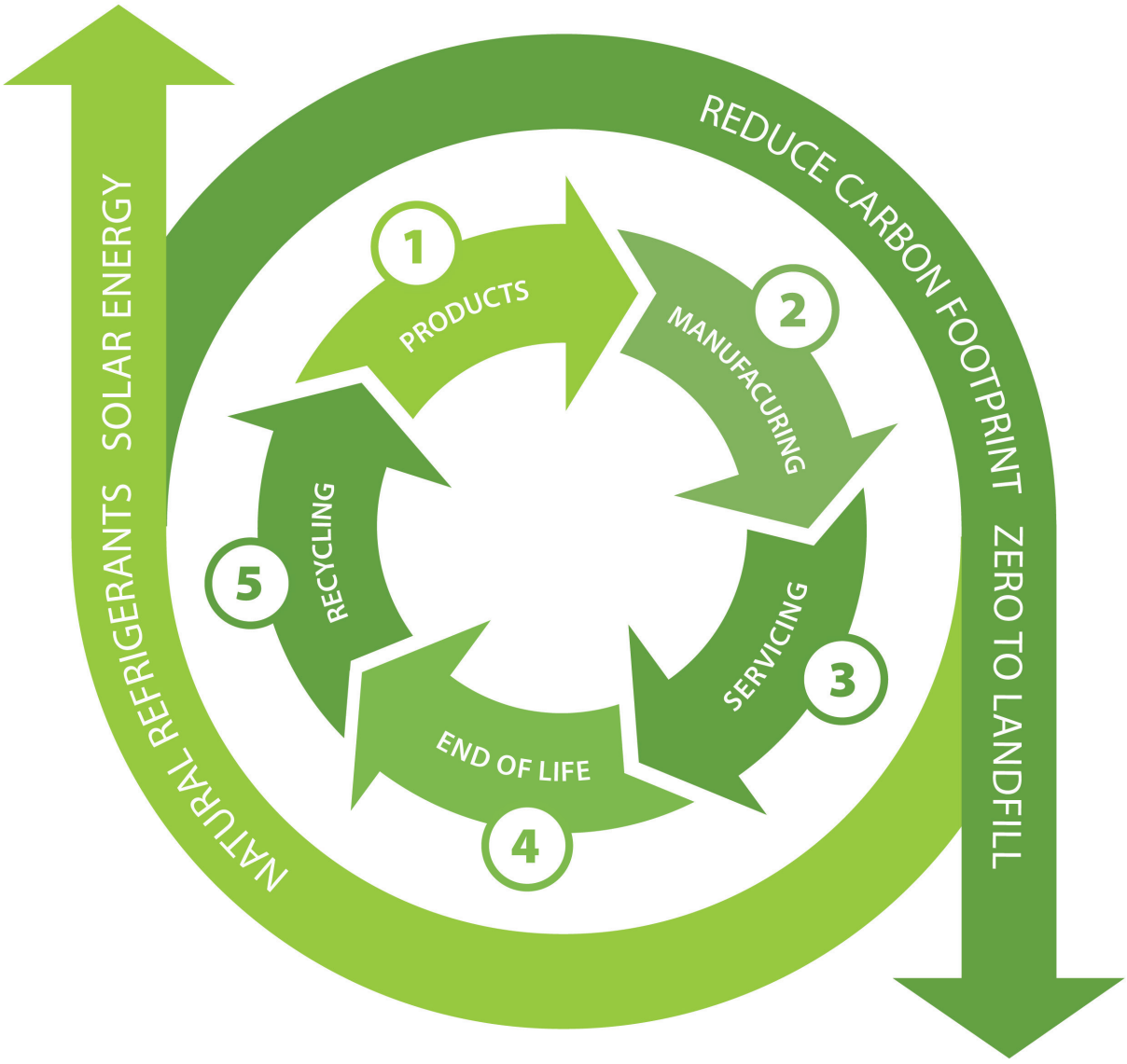
End of life commercial refrigeration appliances are classified by the Environment Agency as hazardous waste and must be disposed of in a safe manner. We are pleased to offer a fully licensed safe disposal service for your end of life redundant refrigeration appliances.

MORE INFORMATION
https://bit.ly/2ZjdBv6

Greenlogic / Management Targets



Greenlogic / Circular Economy



1

We use natural refrigerants for 100% of our range of cabinets and over 95% of our overall product range. All products are 99% recyclable and incorporate a zero leak strategy. A robust and sustainable build enhances long service life.

2

We hold the Environmental Management certification ISO 14001 for the design, manufacture, installation and servicing of refrigeration products. All materials and components are ethically sourced, with our suppliers also adhering to strict criteria to minimise their packaging.

3

We have a network of service partners covering the UK with fully qualified refrigeration engineers to maintain our high levels of customer service, aimed at prolonging the life of our products at the first attempt. We aim to repair quickly and efficiently, as well as supplying genuine spare parts.

4

End of life commercial refrigeration appliances are classified by the Environment Agency as hazardous waste and must be disposed of in a safe manner. We offer a fully licensed safe disposal service for end of life redundant appliances.

5

Williams is a 100% reclaimed or recyclable company. Our products are 99% recyclable. The remaining 1% consists of condensate from compressors, which is treated and reclaimed by a third-party partner. We also maintain a zero to landfill status.

Ask Williams / FAQ

Q: ARE THERE ANY SET OBJECTIVES, AND CLEARLY DEFINED TARGETS TO IMPROVE YOUR ENVIRONMENTAL PERFORMANCE?

A: Our senior management sets clearly defined environmental objectives and targets to continuously improve our environmental performance. We set high standards of responsibility and integrity to uphold business and shareholder reputation, health and safety standards; ethical trading policy; regulatory and environmental standards to underpin business values and growth targets.

We aim to cut gas, electric and fuel oils and train staff to switch off equipment when not in use. We encourage conference calls instead of travelling to meetings. Thermostats are turned down to the minimum. Williams has invested in roof top solar power which equates to 25% less use of electricity a year.

We always purchase the most environmentally friendly option, whether that be chemicals in production or locally sourced parts. Our products are energy rated as per the Minimum Energy Performance Standard. Regular meetings are held with senior management to review the progress made with the targets set.

Q: WHAT TYPE OF ENERGY MANAGEMENT PROGRAMS ARE YOU INVOLVED IN?

A: Williams identify and monitor key areas of high energy and fuel use, from our plant machinery to our processes, and introduce initiatives based on industry best practice to minimise consumption. Our commitment to the environment is endorsed by achieving ISO 14001 accreditation, which measures all environmental impacts within the organisation. We are a Zero to Landfill operation and have an equal focus on waste management. We are committed to Climate Change, BREEAM and ETL (Energy Technology List) where we are recognised for our eco-processes.

Q: WHAT ARE WILLIAMS' CREDENTIALS WHEN IT COMES TO ENERGY EFFICIENCY FOR REFRIGERATION?

A: Williams Refrigeration actively participate in the writing of Standards relating to energy efficiency; we are members of the BSI (British Standards Institution) and are also active members on the CEN (European Committee of Standardisation). In conjunction with other experts we have most recently helped to develop and write the following energy efficiency and performance Standards:

BS EN 16825: 2016: Refrigerated Storage Cabinets and Counters for Professional Use - Classifications, Requirements and Test Conditions.
BS EN ISO 23953-2:2015: Refrigerated Display Cabinets Part 2, Classifications, Requirements and Test Conditions.
BS EN 16902:2016: Commercial Beverage Coolers.
BS EN 17032: Blast Chillers and Freezers, Cabinets for Professional Use.
BS EN 16855-1:2017: Walk-In Cold Rooms - definition, thermal insulation performance and test methods.

Ask Williams / FAQ

Q: HOW DOES YOUR EQUIPMENT REDUCE ENERGY CONSUMPTION?

A: We employ best available technology and work alongside component suppliers to optimise our products to achieve the most efficient results.

Q: WHAT ENVIRONMENTAL REQUIREMENTS DO YOU PUT ON YOUR SUPPLIERS/SUB-CONTRACTORS?

A: A Contractor Questionnaire is issued to all suppliers and sub-contractors, a large section of which focuses on environmental management. If we deem this to have been completed to our satisfaction a Code of Practice is then strictly followed.

Q: WHAT SIGNIFICANT ENVIRONMENTAL ASPECTS HAVE BEEN IDENTIFIED?

A: The use of electricity for equipment, machinery, lighting, ventilation and air conditioning etc. The use of refrigerant gases and ancillary raw materials (e.g. aerosols, sealants, adhesives, paint, lubricants, Iso Cyanate). Others include chemical waste storage and the creation and storage of metal waste for recycling. Williams is continuously active at looking into each measure to further develop and improve sustainable processes.

Q: WHAT OTHER PLANS ARE IN PLACE TO IMPROVE YOUR ENVIRONMENTAL PERFORMANCE FURTHER?

A: We set Specific, Measurable, Achievable, Realistic and Timely (SMART) measures for each target and then monitor as appropriate. We produce clear and precise explanations on how we met or didn't meet our targets, which are reviewed on a regular basis.

Further action plans include: Reduce Electricity & Gas usage year-on-year, generate 25% of our electricity from solar power, continue to use and promote natural refrigerants, maintain 99% product recycling, maintain 100% company recycling and reclaim, reduce carbon footprint by year-on-year, maintain our Low Risk emissions and zero to landfill statuses.

Q: WHAT IS YOUR WEEE (WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE) PROCESS FOR END OF LIFE CASES?

A: Williams are Members of REPIC (Producer Compliance Scheme). We record tonnage of EEE (ELECTRICAL & ELECTRONIC EQUIPMENT) placed on the market. Our product labels carry the crossed out wheelie bin symbol with the producer identification and date mark - Our WEEE registration number printed on customer invoices is: AFE Group Ltd – WEE/DC0059TT/PRO.

WEEE is removed by authorised waste carriers; documentation of the tonnage, description, recycled and disposed is provided by certified waste handler AATF and retained by the Williams Production Management department.

greenlogic

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