

There is no such thing as 'away'.
When we throw anything away
it must go somewhere.

Annie Leonard



paragón
CARPET TILES

mat.works
Entrance Solutions

The Environmental culture at Paragon is '**reduce, recycle, reuse**', using raw materials from sustainable sources/with recycled content wherever possible. Employees are actively involved in setting and monitoring the achievement of environmental objectives and targets.



Independent Monitoring

Air emissions to atmosphere from the production process are independently monitored for impacts on the environment, recent analysis confirming that the actual emissions were less than 1% of government targets.

Factory activities & production processes, and their impacts on the Environment, are regularly audited by Environmental Health Officers, and have been confirmed as a 'low risk category', most recent score rating of 5 out of 175.

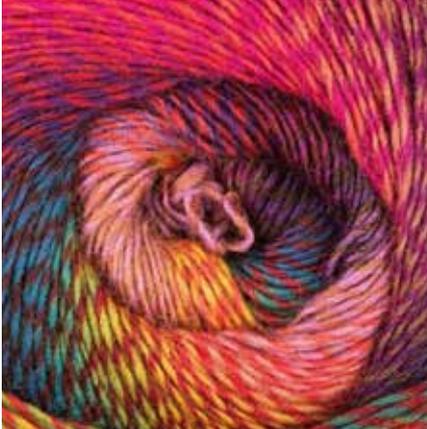
British Standards regularly audit the Environmental and Quality Management Systems to ensure continued compliance to accredited standards and to demonstrate continuous improvement.

BreGlobal regularly audit the Environmental Profile of certified products (BREEAM) confirming continued certification.

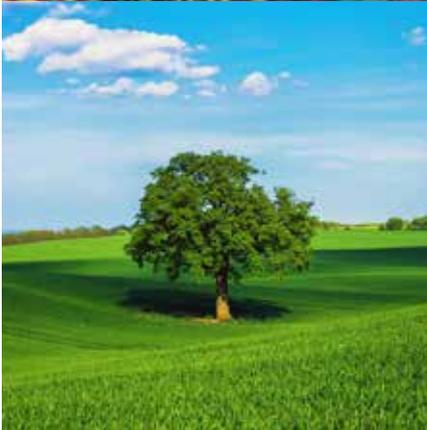




ISO 14001
Environmental
Management System



breglobal
Environmentally
Profiled products



ISO 9001
Quality Management
System



Manufacturing

Raw materials are used wherever possible from sustainable sources and with recycled / reclaimed content. Currently, standard manufacture includes:

Bitumen backing contains at least 75% of recycled product

Latex pre-coat backing contains at least 75% of recycled product

Up to 80% of the total product is made using recycled materials

Pile yarns contain up to 100% recycled content

Pallets obtained from sustainable sources

Tile boxes are 100% recycled cardboard

Production processes are not water dependent – 95% of water consumption is for recreational facilities



A photograph of a paper mill interior. The scene is filled with rows of machinery, including large rollers and spindles, arranged in long aisles. The lighting is industrial, with bright overhead lights. The overall color palette is muted, with greys, blues, and browns. A semi-transparent blue rectangular box is overlaid in the center of the image, containing white text.

Up to 80%
of our total product
is made using
recycled materials



Paragon
operate a
zero landfill
policy



Waste

Waste streams are segregated and recycled (wherever possible) or reused, resulting in a 'zero landfill' policy.

All yarn waste, cardboard, plastics & timber are recycled.

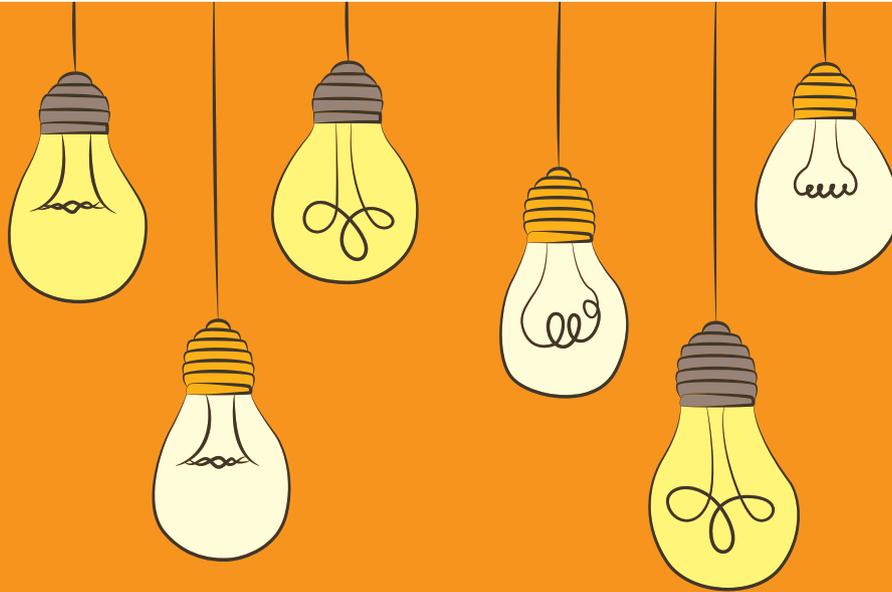
Waste pallets are shredded into biomass for energy production.

General waste (which is not considered recyclable) is used as a fossil fuel replacement in a 'SRF – Solid Recoverable Fuel' program, the residual ash used in cement manufacture.

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CO² Emissions

A new warehouse lighting system saving over 80,000kWh of electricity each year, equating to:

Enough energy to fuel 26 family size homes for one year
CO₂ reduction of 41.7 Tonnes (20 return trips to Australia).

In 2014
60,000m² of
material was handled,
72% of which was
given a second-life

STEP 1

Tiles are uplifted from site



STEP 2

Carpet tiles palletised



STEP 3

Recovered
Carpet tiles collected



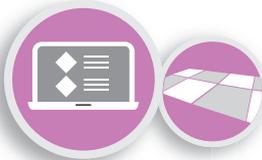
paragon3R

RECOVER • RECYCLE • REUSE

CIRCULAR ECONOMY

STEP 6

Reused tiles sold online
or used to support community schemes



STEP 4

Tiles are transported to the
nearest 3R recycling depot



STEP 5

Recycling begins by sorting into
style/colour and condition
Second life tiles are thoroughly
checked before re-sale.



From 2009-2014
2249 tonnes of carpet
tiles have been diverted
from landfill and given
a second life.



ECONYL®

ECONYL®

The ECONYL® Regeneration The 4-Step Regeneration Cycle System is based not only on the development of a new technology but also the creation of a new supply chain specialized in the recovery of waste worldwide.

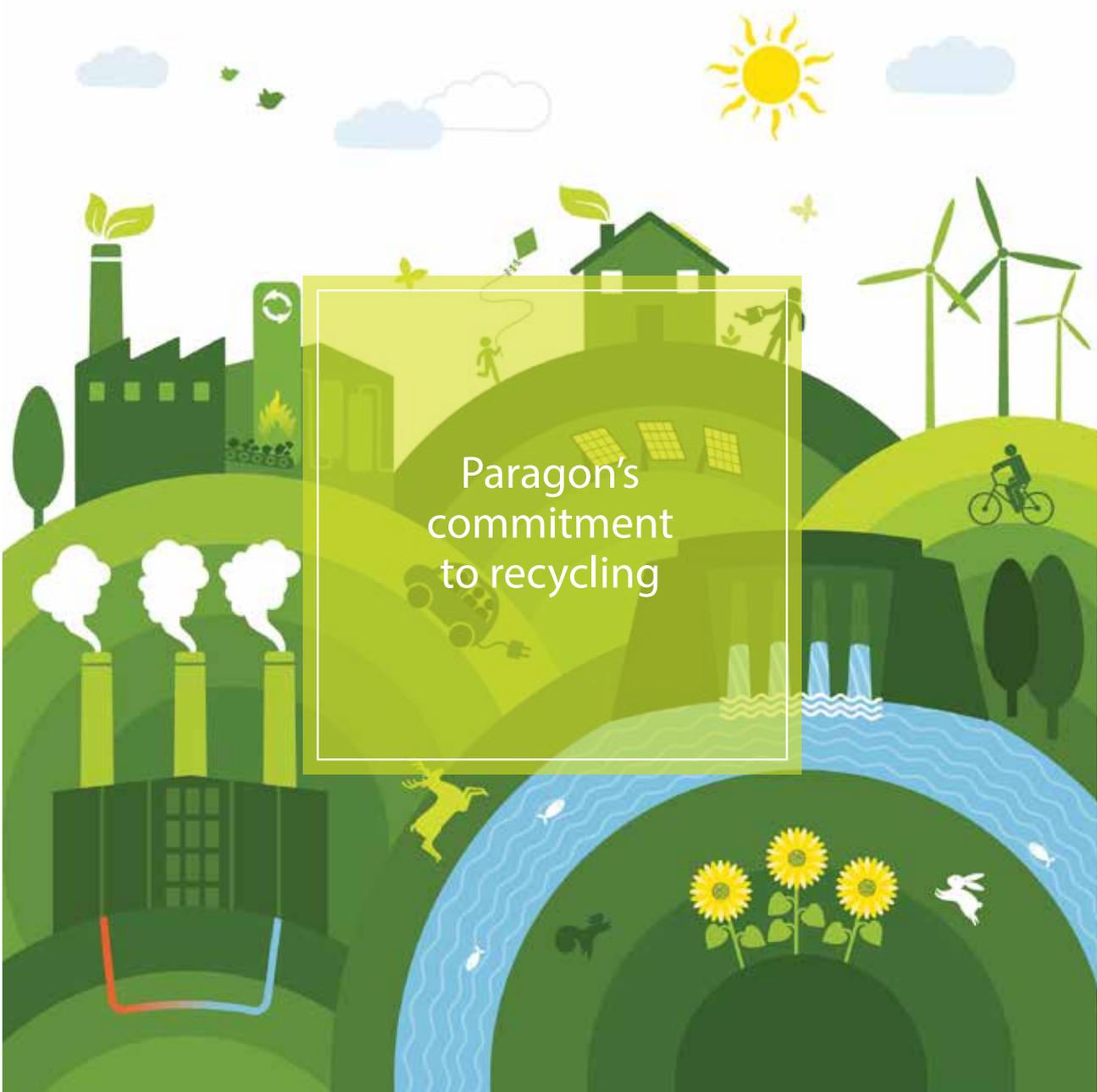
The **ECONYL® Regeneration System** is: Infinite, as the Polyamide 6 waste can be regenerated an infinite number of times to produce new polymers with technical characteristics and quality equivalent to products obtained from fossil materials. Innovative, as it is the only system of its kind anywhere in the world in terms of efficiency and productivity. Sustainable, as it recovers waste which would otherwise end up in landfills or oceans (fishing nets), causing serious damage to the entire ecosystem. It also enables real savings in terms of CO2 emissions. Compared to common Nylon 6, **ECONYL®** fiber has a reduction of approx. 50% of CO2 equivalent emissions/kg yarn.

ECONYL® can be found in Paragon's Total Contrast carpet tile range., a stunning yet sustainable collection perfect for design-led applications.

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Paragon's
commitment
to recycling



Cardboard Recycling

Cardboard from tile boxes / packaging / sample boxes etc is collected and sorted into different types of card . It is then shredded by type and made into tiny pieces for the next stage of the process. These tiny pieces are mixed with water to make a pulp similar to paper mache. The inks are taken out of the pulp to cleanse the cardboard. The pulp is then dried and made into rolls again and refinished and reused in new boxes / printing papers and packaging .





Plastic Recycling

A very similar process to our card recycling the finished product however will return into food packaging, fenestration (window & door industry) to make coloured windows with the remainder ending up in automotive for new dashboards.





General Waste

The waste from our internal black bins and commercial waste bins which could include food waste, tins and papers are collected and funneled through various screening channels to extract waste products for different energy uses.

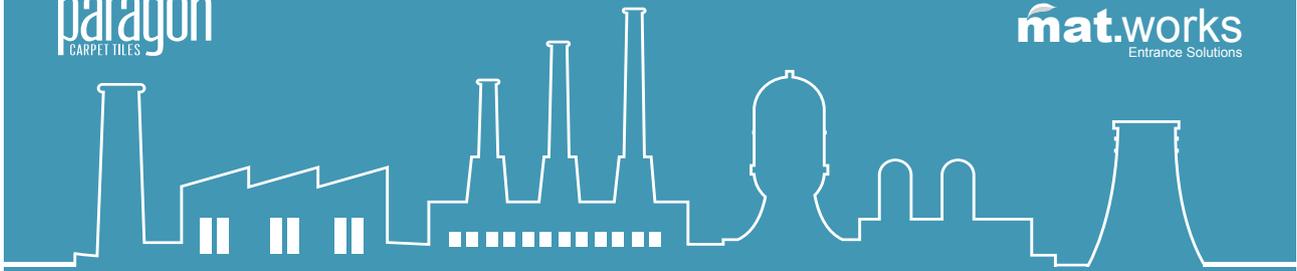


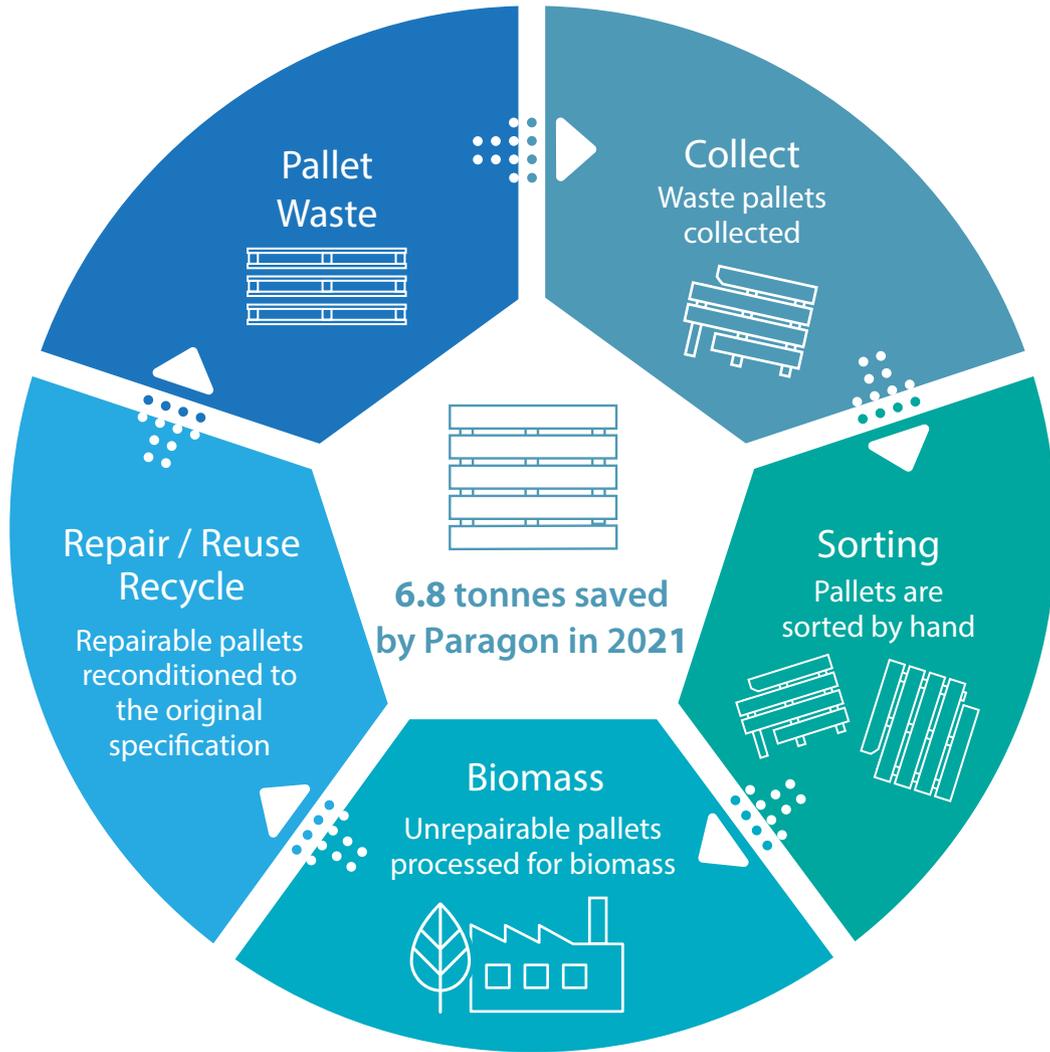
Metals will be removed from the process and recycled whereas as card and food stuffs will be screened, shredded, fine shredded and ultimately baled ready for use in high calorific fossil fuel replacement systems. General waste is all pre shredded down to coarse strips and dried. From here there is a divergence or funneling of materials. A commercial magnet is passed over the products and any metals are dragged out and recycled into base metals for melting and reuse. Anything else returns to the line for screening. There is even manual screening where items that can be immediately recycled such as plastics are removed and go back into a plastics style recycle funnel. What's left is secondary shredded and baled ready for sending to areas requiring sources of fuel. An interesting fact relating to this process is the use of the pre baled pellets in cement manufacture.

First the pellets are burnt in huge clave ovens baking the cement and secondly the waste from the burning ie. ash is then recovered and this residual ash is placed back into the concrete mixture as part of the product providing a double environmental saving.

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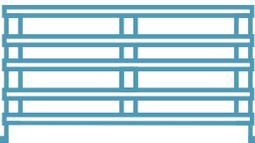


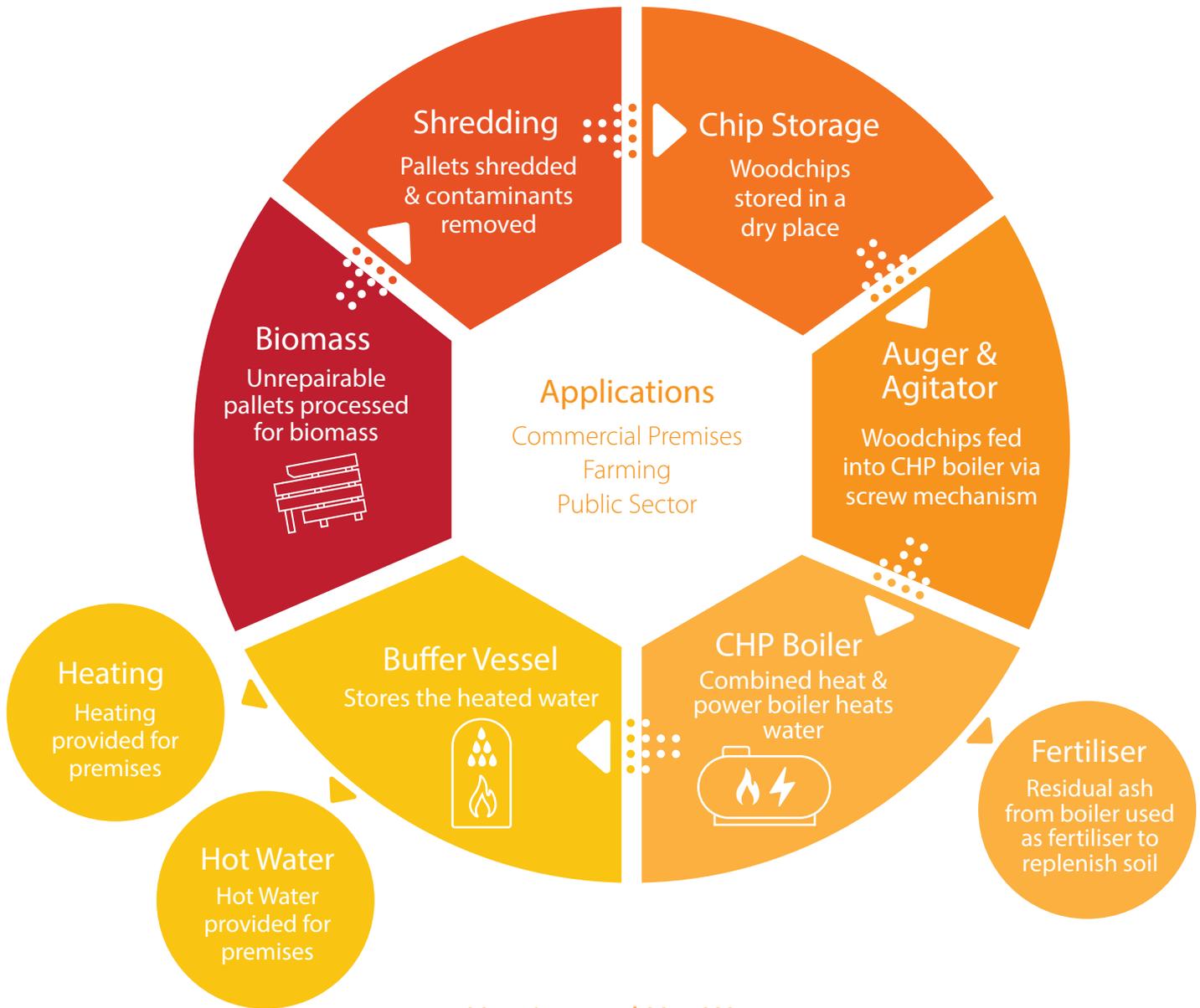


Pallet Waste

Paragon Carpets pallet waste has two environmental uses. Pallets are firstly sorted by hand and pallets identified as repairable are reconditioned and put back into mainstream use for a second life.

Pallets graded as unrepairable are chipped, baled and processed for Biomass energy sources rather than being sent to landfill.





Heating and Hot Water

The secondary phase of unrepairable pallets moves waste pallets into commercial fuel via hot water.

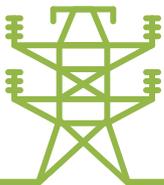
Pallets are chipped, baled and converted to fuel in commercial boilers, this then converts to hot water and is stored in buffer vessels ready for reuse. Any residual ash from the initial boiler conversion is given a second life in the farming process as fertiliser.

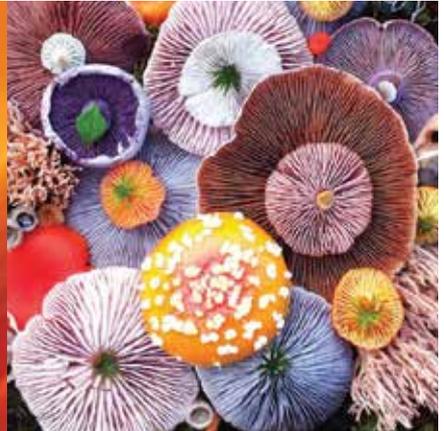
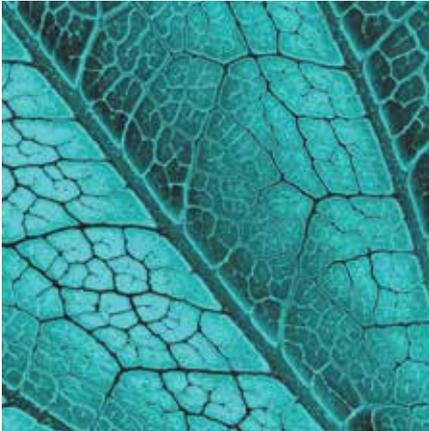




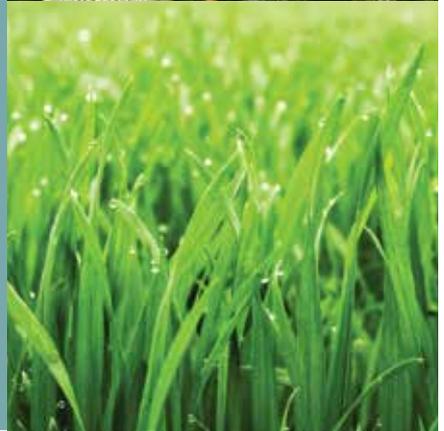
Electricity Generation

By reusing Paragon Carpets waste products feeding it into our electricity generation system, the pressed and filtered waste is used in commercial boiler system to generate steam in turbine engines which can be re-issued to the national grid. Alternatively residual ash is used in farming.





Paragon
one of the lowest
emission factories
in Europe





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