



Racor Filter Division Europe

Environmental Sustainability

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

Together, we can make a positive impact

At Parker Racor Filter Division Europe we understand the need to meet the ever-changing needs of our customers. We also recognise our responsibility to do all that we can to protect our environment.

Together, we can meet environmental standards

We appreciate the importance of safeguarding natural resources and the global environment. Parker Racor Dewsbury is proud to have achieved Environmental Management Standard ISO 14001 – with a key element of the standard being to regularly monitor and consider the environmental aspects of our products, processes and equipment.



Strategic Waste Policy



Racor Filter Division Europe has implemented a strategic waste policy to avoid disposing recyclable waste to landfill.

With a focus on communication, the division's 200 plus employees are reminded of the costs associated with waste disposal and encouraged to help segregate material implementing recycling programs for plastic, metal, toner cartridges, cardboard, paper, office furniture, wood pallets, metal drums, oil and diesel, solvents, electrical and electronic equipment etc - the list is ever growing!

New recycling opportunities are continuously being evaluated by Racor's Environmental Health, Safety and Energy team. After exploring several possibilities to recycle element media waste, (a by product of filter manufacturing) the division partnered with National Industrial Symbiosis Programme (NISP) to find a viable solution for its element media waste.

With the help of NISP the division was able to divert the media waste into a viable recycling option. Nutramulch Yorkshire Ltd agreed to accept the media waste and recycle it into compost for local farmers.

Real Results

Between July 1st, 2009 and June 30th 2010, Parker Racor made a 56% saving in the amount of waste sent to landfill, which was reduced from 103 tonnes to only 46 tonnes.

This means that 57 tonnes of waste has been diverted from landfill due to the great recycling strategies at the division.

Recycling Policy

Parker Racor prides itself on recycling as much material as possible – the list of recycled waste streams has increased dramatically over the last three years.

Goods Recycled (Prior to 2009)

- Metal
- Paper
- Wood

Goods Recycled (Post 2009)

- Plastic / Polythene
- Media
- Wood
- Metal (Aluminium, stainless steel, copper and light iron)
- Paper
- Empty hazardous packaging
- Clean, dry packaging
- Unused office furniture
- Electronic equipment
- Toner cartridges
- Metal drums
- Electric lamps
- Carpet tiles
- Sensor valve packaging

act on your bottom line, without making

Product Development

The European Commission claims that lorries account for 25% of road-generated greenhouse gases and 5% of all greenhouse gases across Europe. The Racor Super Impactor Closed Crankcase Ventilation system provides a positive impact on the environment by eliminating oil mist from crankcase emissions. (All engines have blow by gas that passes from the combustion process into the engine case mixing with the lube oil, which are then forced out of the engine through the breather system). The Racor Super Impactor CCV system works by controlling the crank case pressure, separating the oil and returning it to the sump.

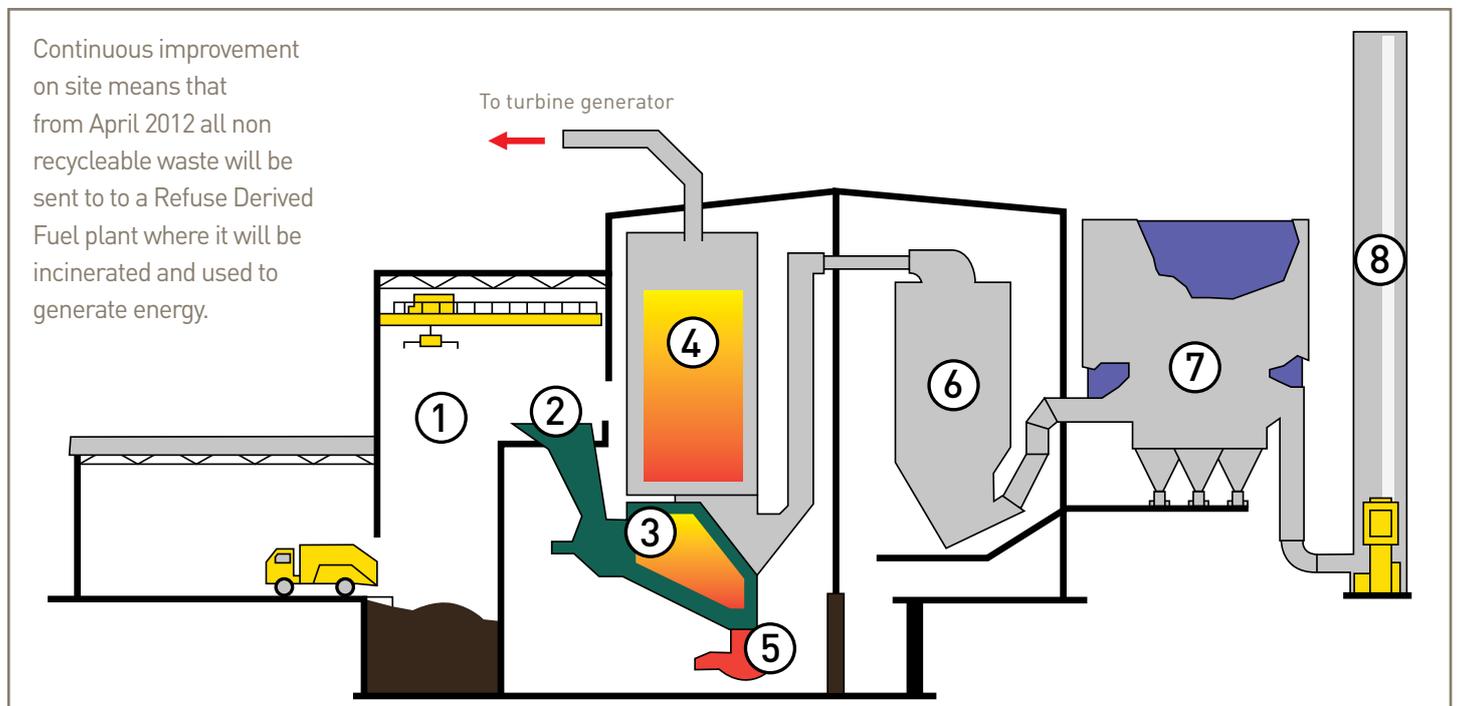
“The Racor Filter Division Europe is encouraging all employees to protect the environment. The culture of the location is being driven towards sustainability, from this great brochure we can see that employees at all levels are actively involved in protecting the environment for the future.”

Joachim Guhe
Vice President Operations,
Filtration Group Europe



Environmental Policies = Real Results

- Recycling increased by 70% in two years (March 2009-March 2011).
- The reduction in landfill waste means 200 tonnes of carbon emissions were saved in FY10 because of the reduced amount transport required to dispose of our waste.
- Zero compliance fines or penalties.
- At the end of FY11 88% of all waste was recycled in the RFDE Dewsbury location.



How does a Refuse Diversion Plant work?

- Waste is tipped into a holding area (1) where it is picked up and dropped into a hopper (2).
- The waste is pushed gradually into the incinerator (3) which runs at a temperature of 750 degrees Celsius.

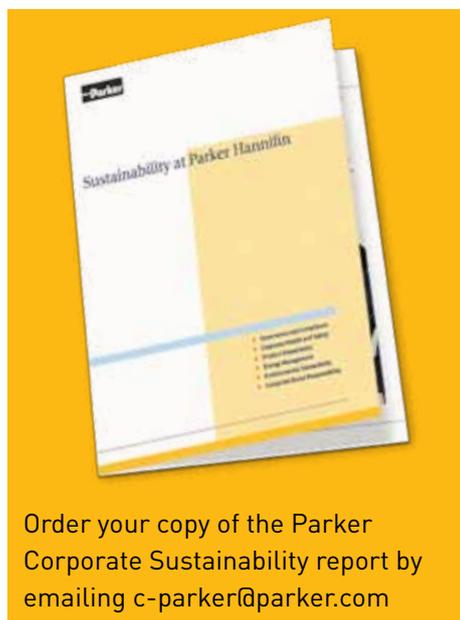
- Heat from the burning waste is used in a boiler (4) and steam from this is piped to a turbine generator to create electricity.
- The heaviest ash falls into a collection point (5) and is passed over with an electromagnet to extract metal content for recycling.

- Flue gases containing fine ash then pass through a scrubber reactor (6) to treat acid pollutants such as SO₂ and also dioxins. The gases then pass through a fine particulate removal system (7) and are released through the chimney stack (8).

a negative impact on the environment

Green Build – Environmentally-Conscious Refurbishment

Parker Racor commitment to environmental measures doesn't stop at recycling, it extends to being environmentally-conscious when refurbishing the Dewsbury plant itself.



The plant and offices refurbishment, undertaken in 2010-2011 included the following environmentally-friendly measures:

- New carpet tiles are 'A' BREEAM rated – manufactured from 100% recycled materials
- Removed carpet tiles were not disposed to landfill, instead they were collected at no charge by a local charity and are being reused
- All paint used is 'ECO' paint which is water-based and not solvent-based. Even the paint tin used is made from 50% recycled metal
- All new office chairs are 99% recyclable which ensures they will not be disposed of into landfill in the future. All unused office furniture is collected by a specialist company, refurbished and given to local charities

Food Recycling

To further increase waste Parker Racor began recycling its food waste in the summer of 2011. Organic waste is collected weekly and converted into methane (energy) with the resulting organic sludge being turned into compost.

Capturing the biogas from one tonne of food waste rather than sending it to landfill will avoid emissions of between 0.5 and 1 tonne of carbon dioxide. It is estimated that Parker Racor Dewsbury will divert around 10 tonnes of organic waste during FY12.

Did you know?..

- The cost of putting waste into landfill has been steadily increasing since 2001, the landfill tax for waste is set to rise by £8 a tonne each year for the next three year and by 2010/11 landfill tax will be at £48 a tonne!
- Every tonne of paper recycled saves 17 trees. (Source: The Green parent website).
- Incinerating 10,000 tonnes of waste creates 1 job, landfill the same amount of waste creates 6 jobs, but recycling the same 10,000 tonnes creates 36 jobs. (Source: The Green parent website).

The future - FY12 and beyond...



Parker Racor's commitment to improving its environmental policies and practices will continue into FY12 and beyond...

FY12 Targets:

At start state:

10-20% further reduction in the following:

- Cost of waste disposal
- Hazardous waste created
- Number of waste collections
- Waste generated

Future Initiative – Think3E Corporate Social Responsibility

Parker Racor Dewsbury has identified an opportunity to work with a local enterprise to increase recycled waste, decrease waste disposal costs and to help provide local employment.

Think3E is a new recycling company to Dewsbury able to take certain waste streams and employ local long-term unemployed people to sort, sift and segregate waste whilst providing life skills, accredited training, work experience and employment to those most disadvantaged in the labour market.

Parker Racor will work with **Think3E** throughout FY12 to support its environmental aims and develop its corporate sustainability policy.



Parker Racor Dewsbury Announced as Regional Winner

The judges were impressed not only by Parker's significant reduction in general waste - from 9.3 tonnes to 2.6 tonnes per month - but also with the way in which management combated initial internal resistance to change by fully engaging staff and encouraging them to 'walk the talk'. The judges also felt this to be an excellent example of project management, process and partnering.

"Many congratulations to the Racor Filter Division Europe team on their commitment and dedication in protecting the environment. Sustainability is a key value for Parker Hannifin and the work at RFDE is an example to all our locations."

Peter Popoff, President Filtration Group, Parker Hannifin.

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900
parker.belgium@parker.com

BY – Belarus, Minsk

Tel: +375 17 209 9399
parker.belarus@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budapest

Tel: +36 1 220 4155
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7272 505 800
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000-99

TW – Taiwan, Taipei

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos

Tel: +55 800 727 5374

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Apodaca

Tel: +52 81 8156 6000