


environment matters

Plastic Recycling

Compound and Regrind Recycled Materials

The background of the lower half of the page is a close-up photograph of plastic regrind and compound. The top portion shows light-colored, irregularly shaped plastic chips, while the bottom portion shows dark, spherical plastic pellets. A white curved line separates the two materials.

**Are you
ready to make
the switch?**

Sustainability is at the forefront of our business



Enva is a leading provider of recycling and resource recovery solutions, with locations across the United Kingdom and Ireland. With sustainability at the forefront of our proposition, we recover a broad range of hazardous and non-hazardous waste materials for re-use in manufacturing and energy conversion. We also provide a complete portfolio of industrial, water and waste water services. At Enva we are committed to recycling and resource recovery; it forms the basis of our business strategy and our values.

We support the life cycle of materials to provide either a second life, through re-use, closed-looped recycling solutions or in the production of energy.

Our dedication to developing new and innovative products and solutions and extending the life cycle of the world's resources is driving our business forward.

Recovering and recycling the waste we generate conserves our precious natural resources, reduces environmental impact and supports the development of a more circular economy. Enva converts as much waste as possible into new materials, products and energy sources, diverting it from landfill and helping our customers realise both commercial and environmental benefits.

We strive to provide closed-loop recycling solutions where waste materials are separated and recovered as secondary resources or used in the manufacture of new products. Where this is not possible, they are used as a fuel in the production of energy.





We don't simply collect waste - we transform it!



As well as our ISO9001:2015 accredited facilities in Bourne where we manufacture our high quality plastic compounds, we also collect and recycle lower grade household and commercial plastic wastes at facilities in the East Midlands and Glasgow in Scotland.

Whether it's producing recycled glass cullet for new bottles, aggregates for the construction industry or energy from waste oil, very little of what we collect is sent to landfill.



Continually investing in research and development allows us to recover even more waste materials from a host of consumer, commercial and industrial sources.

- Wood
- Oil
- Chemicals
- Glass
- Compost
- Plastic
- Aggregates
- Paper
- Water
- Cardboard
- Metal
- Energy

Recycled Polymers - Cost Effective & Sustainable



The use of recycled polymer provides manufacturers with the ability to realise significant cost savings over the use of virgin material, whilst manufacturing a more environmentally friendly and highly marketable product. Through the recovery and reuse of waste materials, Enva enable the displacement of virgin materials and fossil fuels, avoiding the generation of CO₂.

For manufacturers of commodity and technical products, the realisation of these benefits can be almost immediate. Recycled plastic has no impact on product quality and can be substituted into manufacturing processes without the need for additional process modifications or lengthy testing periods.

Enva is one of the UK's leading recyclers of waste plastics. Specialising in small household appliances, (Waste Electrical and Electronic Equipment Recycling - WEEE), Enva creates the highest quality compounds and recycled polymers for use in the manufacture of new components and products, diverting as much waste plastics as possible from landfill.

Our investment in our plastic recycling facilities has been extensive, doubling our capacity and creating one of the UK's largest and most advanced plastic recycling facilities. As well as our specialist recycling facilities in Bourne where we manufacture our high quality plastic compounds, we also collect and recycle lower grade household and commercial plastic wastes at facilities in the East Midlands and Glasgow in Scotland.

Our unique recovery process means that we are saving 1000's of tonnes of plastic a year that was previously unrecyclable, removing dangerous POPs chemicals from the environment and supply chain.



Inbound



Separation



Granulation



Blending



Products





Plastic WEEE Recycle

Enva has, for many years, pioneered advanced plastic recycling techniques creating products that have comparable quality properties of virgin plastic compounds.

Enva's best-in-class dedicated plastic and small mixed WEEE recycling facility in Bourne, Lincolnshire is one of the largest dedicated small mixed WEEE facilities in the UK. Split across two adjacent sites, that firstly take in, sort and process waste plastics including WEEE. Then secondly, convert this waste plastic into high quality compounds for use in the manufacture of new plastic products and components as a comparable, yet cost effective, alternative to virgin plastic.

We can also take many grades of non-hazardous waste plastics including:

- Coat hangers
- Displays boards
- Garden furniture
- Toys
- Buckets & Storage containers
- Packaging plastics
- Industrial & Commercial waste
- Manufacturing scrap
- Segregated post consumer plastics

Plastic Compounds

Enva is a unique industry supplier of a range of high-quality recycled compounds, that are comparable to virgin plastic suitable for the manufacture of both consumer and industrial focused products across a wide range of market sectors and applications ranging from electronic devices through to the construction, general household and automotive component industries.

We recycle as much plastic as possible into compounds which supports a circular economy. Enva extrude three clean polymers ABS, PS, HIPS & PP from which customised formulated compounds are made.

- Acrylonitrile Butadiene Styrene (ABS)
- Polypropylene (PP)
- Polystyrene (PS) / High Impact Polystyrene (HIPS)

The use of recycled polymer has a number of environmental benefits, including, reduced pressure on natural resources and the associated energy consumption from raw material extraction and the development of a more sustainable supply chain.

Our materials are supported by material safety data sheets technical data sheets, pelletised pellets are REACH and RoHS compliant also.

Selling Polymers Direct to Manufacturers



Polystyrene (PS) and High Impact Polystyrene (HIPS)

Our Polystyrene (PS) and High Impact Polystyrene (HIPS) compounds are manufactured to the highest standards and levels of purity. They go through the most vigorous testing to ensure that they are fit for purpose and comparable to virgin material. Our Polystyrene compounds impact tolerance means it's perfect for use in a wide variety of applications such as consumer electrical items including TVs, monitors and kitchen appliances. Its properties mean Enva PS and HIPS are the ideal choice for injection moulding, extrusion, vacuum forming applications or Masterbatch processes.

Polypropylene (PP)

Recycled Polypropylene (PP) is a flexible, cost effective, general purpose plastic compound that has wide and varied application. It has great physical properties including flexibility with a softer finish, it retains its shape and structure and is a good insulator. It is especially useful in the manufacture of products such as storage containers or car parts. Our Polypropylene compound has comparable properties to virgin plastic saving costs and contributing to a circular economy.



Acrylonitrile Butadiene Styrene (ABS)

Acrylonitrile Butadiene Styrene (ABS) is a much sought-after polymer due to its high impact resistance, resilience to chemicals, a low melting point and overall strength. Additionally, due to its lightweight properties and its ability to be injection moulded, it is useful in manufacturing a wide range of products ranging from pipe systems to musical instruments, automotive components, power tools and car parts.

Compounds at a glance

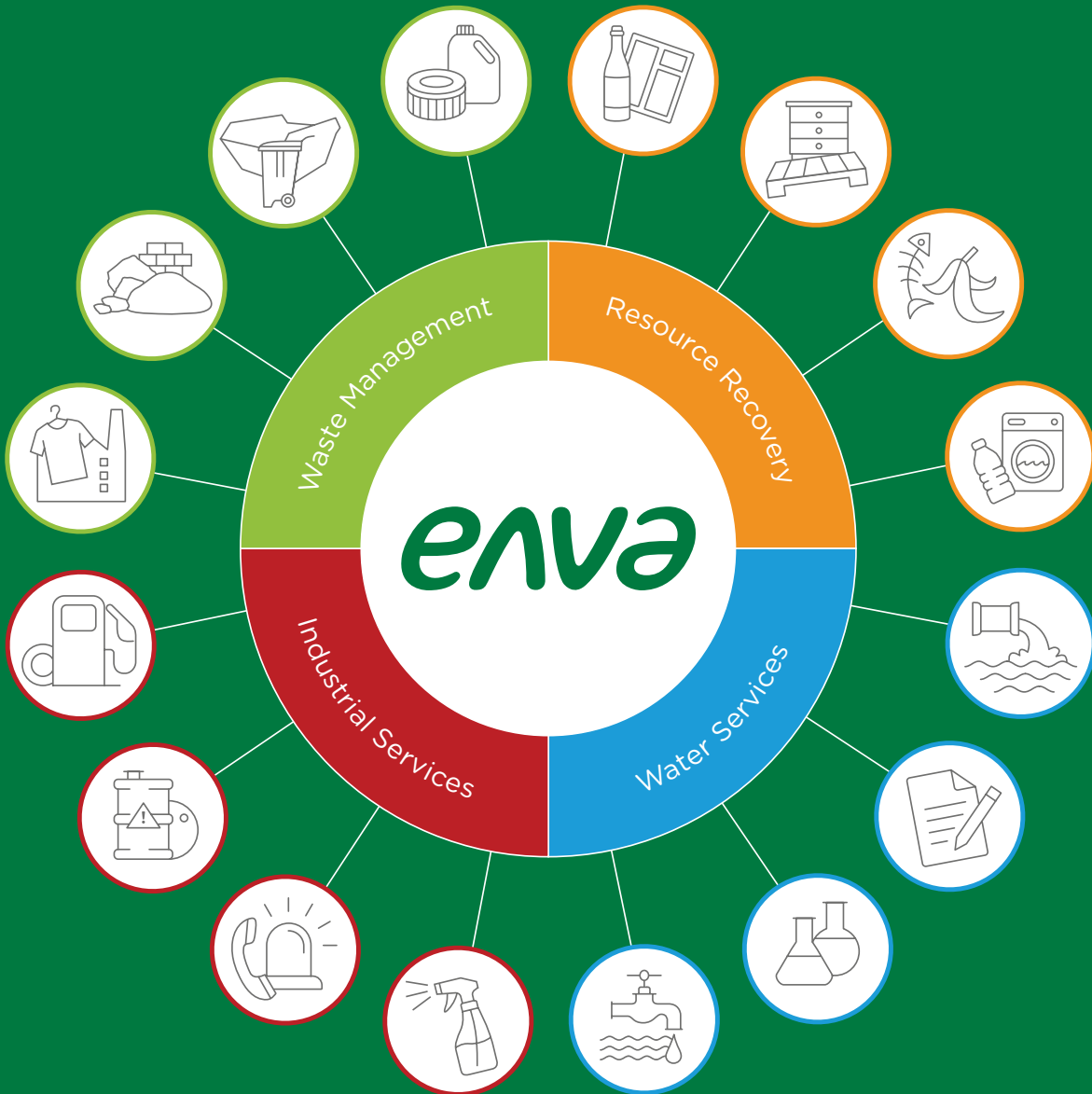


For more information the benefits of switching to recycled compounds please contact us.

Compound	Material Properties	Used in
ABS Acrylonitrile Butadiene Styrene	Aesthetically pleasing, strong and durable.	Furniture fixtures and fittings, cable reels, pencil sharpeners, plastic drawers, under bonnet applications, automotive parts, cupholders, gear sticks, plastic container, kitchen unit feet, licence plate backing, TV housing, keyboards.
PS Polystyrene	General injection moulding purposes.	Plant pots, coat hangers, mushroom trays, seed trays, planting troughs, footwear, wall plugs, cable caps, cable reels, storage contains, waterproof drums, fastening lips, identification tags, keyrings.
HIPS High Impact Polystyrene	Good Surface finish, tough and flexible with a good flow.	
PP Polypropylene	Chemical resistant, even and consistent appearance, tough and flexible and a good resistance to fatigue.	Construction industry, pipe parts, school chairs, under bonnet applications, automotive parts, kitchen unit sockets, coat hangers, plastic drums, buckets, baskets.
FPP Filled Polypropylene - Mineral filled PP	Used for impact strength and stiffness - Streamlines thermoforming. Allowing the plastic to heat and cool down faster.	Construction industry, under bonnet applications, automotive parts and rainwater harvesting systems - FPP (Mineral filled PP).

Suitable for Masterbatch, Injection Moulding processes for a sustainable supply chain.

Enva's consistent input material and high-quality recycling processes ensure our polymers fulfil the demands of the compounding process. As a result, the pigment and additive parts can be merged into the base polymer completely homogeneously.



38 facilities



1700 employees



£346m turnover