Knowaste Ltd is the UK's first specialist recycling facility for disposable nappies, adult incontinence and feminine hygiene products - known collectively as absorbent hygiene products (AHPs). Knowaste brings innovative technology and proven expertise in recycling AHPs.

- Our technology is **state-of-the-art** and produces quality plastics and fibres
- Our process is **greener** than conventional waste disposal
- Our prices are **competitive**
Introducing Knowaste

Knowaste is the first company to provide a clean, environmentally conscious and cost-efficient way to recycle your AHP waste.

Clever technology for composite product
Designed for comfort and protection, AHPs consist of several materials - fibres to absorb moisture, super absorbent polymers to retain moisture and plastic membranes and tabs to keep the user dry and secure. Only Knowaste has invested the resources needed to make full use of this waste and deal effectively with contaminants.

The Knowaste recycling facility in West Bromwich, Midlands is treating 36,000 tonnes per annum. Looking ahead, further sites across the UK will be realised to offer more capacity and serve more locations.

AHP in the UK
The UK produces c.1 million tonnes* of AHP waste annually from the commercial and domestic sectors. With a growing and ageing population, the sales of these products are set to expand.

Our work with the commercial sector is capturing waste from washrooms, elderly care homes, child nurseries and hospitals. Working with the local authorities Knowaste can help meet Zero Waste and recycling targets and provide service and choice to residents.

Transforming plastics and fibres from AHP waste
The plastics output is used for a wide range of products: roof tiles, seed trays and wood substitute products in the landscaping and construction industries.

The fibres are reclaimed for green energy fuel or sterilised and recycled for use in corrugated board, blow moulded packaging, seeding mulch and as fillers in the road and construction sectors.

The Knowaste Know-How
You can rely on our proven expertise
Knowaste has been researching and developing waste treatment technology for processing absorbent hygiene products since the 1990’s. Today our engineers have translated this experience into a custom made and practical solution for the UK market. We are utilising autoclave technology to produce sterilised final products suitable for a diverse range of reprocessing markets. In addition we operate a state-of-the-art odour and dust abatement system enabling Knowaste to operate in urban as well as industrial areas.

Knowaste promotes the waste hierarchy
In line with current waste policy, we divert waste away from landfill - the usual disposal method - and recycle it or convert it into green energy.

We can help you manage your disposal costs
Landfill shortages and tax increases are driving landfill costs ever higher. We can work with you for longer term cost stability.

Significantly cut your greenhouse gas emissions
The Knowaste recycling process is a lower eco-footprint alternative to landfill and incineration, so your organisation - and your clients - can be confident that it is actively tackling climate change.

626kg of CO₂e are saved for every 1 tonne of AHP waste processed with Knowaste. For a typical 36,000 tonnes p.a. plant, that is the equivalent to:

- taking 7500 cars off the road
- the total CO₂ emissions of 2000 UK citizens**

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* Resource Futures
** 2010 absorbent hygiene products comparative LCA, Deloitte
Our state-of-the-art recycling process

Partner AHP collection and delivery

AHP waste is taken to the receiving bay and loaded onto a conveyor.

Waste is conveyed to an autoclave and is opened and sterilised.

The waste is shredded and materials are separated.

Final fibres are reclaimed and bagged.

The plastics continue to granulation and washing processes.

The plastics are pelletised and bagged.

The fibres and plastics are ready to be recycled into useful products.
For more information on the Knowaste service, please contact us today:

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+49 (0) 8801 913043

You can visit our website and sign up for our newsletter at:
www.knowaste.com

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