

Cutting-Edge Shredding Equipment Boosts Waste Processing Efficiency

Innovation and sustainability go hand in hand. It's why at Reworld™, we're committed to pushing the boundaries of what our solutions can do for those we serve, and our Birmingham Material Processing Facility (MPF) is a prime example of how technology is driving that mission forward—something made possible through our partnership with eFACTOR3, a leading provider of waste processing equipment.

Waste as a Resource

Opened in May 2022, the Birmingham MPF was built on the foundation of an abandoned site, which we revitalized into a facility best known for processing waste into solid alternative engineered fuel (AEF), which displaces the use of fossil fuels in various industrial processes.

The facility is equipped to create up to 100,000 tons of AEF annually by processing post-recycled, commercial industrial waste from businesses in a wide range of sectors, including the automotive manufacturing, plastics, food and beverage and consumer packaged goods industries, and more.

These otherwise landfill-destined materials get transformed into customized fuels that typically power nearby cement and lime kilns (of which there are many in the surrounding radius) and significantly reduce their carbon footprints in the process.

Other customers that commonly benefit from these alternative engineered fuels include power plants, paper mills, steel manufacturers, chemical facilities and a number of other industrial sites that rely on large-scale boiler systems

Driving Efficiency and Sustainability

eFACTOR3 technology plays a critical role in enhancing our zero waste-to-landfill solutions by handling complex materials that other systems cannot.

With M&J shredders, Westeria conveyors, and Steinert magnets, we are able to extract maximum value from every load. This process transforms waste into an AEF that is highly tailored to meet the specific needs of cement and lime kilns, producing a more efficient burn with lower emissions.

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Ben Haney, Facility Manager at the Birmingham MPF, explains, “The equipment eFACTOR3 provides is versatile but also robust in its ability to handle the more complex materials that are too bulky or tough for other systems. The equipment is on the cutting edge of recycling technology with industry leaders.”

The eFACTOR3 equipment is boosting recovery and uptime efficiencies, helping our facilities meet ambitious production targets.

At our Birmingham MPF, this advanced technology has allowed us to consistently produce more than 50,000 tons of AEF annually, and we anticipate nearly doubling that number as we increase our intake of waste materials.

By optimizing both the risk mitigation and value creation sides of the process, we are setting a new standard for landfill diversion and sustainable waste processing, and opening additional paths to achieving carbon reduction goals.

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A Partnership Built on Shared Values

Beyond technology, eFACTOR3's commitment to sustainability aligns with our corporate values at Reworld™, with both companies focused on lowering carbon emissions and creating long-term environmental benefits through the renewable processing of waste.

Together, we are demonstrating that advanced waste processing can be both economically viable and environmentally responsible.

As we continue to expand our sustainable waste processing capabilities, the growing success of our Birmingham MPF and partnership with eFACTOR3 is a testament to what can be achieved when innovation and sustainability come together.

Looking ahead, we are always seeking to collaborate with partners who share our vision and can help us further enhance the ways we serve our customers and communities.

By working together, we can continue to innovate and push the boundaries of what's possible for sustainable waste solutions..



Reworld™
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Reimagine waste into a resource.
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