

SOLAR POWERED SHREDDER TRANSFORMS WASTE-TO-ENERGY FACILITY

PSH Environmental

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Everything about UNTHA conveys the brand's commitment to engineering a sustainable future, from the capability and quality of the shredders themselves, to the knowledge, support and passion within the UNTHA team. We know we have found the right partner for the ongoing progression of PSH Environmental.

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» MATERIAL
Plastic

» SHREDDER
UNTHA XR3000C

» OUTPUT
RDF (Refuse
Derived Fuel)





CUSTOMER

Norwich-headquartered PSH Environmental Ltd has unveiled a pioneering new project to transform waste into a renewable energy source — using only solar power.

The announcement comes following a significant re-investment into a 12,000ft² new building, 40% extension to the yard, new wash plant, solar system, and an UNTHA XR3000C mobil-e shredder which lies at the heart of the facility

APPLICATION

Capable of processing a range of difficult waste materials for alternative fuels, the electric-driven XR3000C runs entirely from solar energy generated by PSH Environmental, on site.

SHREDDING SOLUTION

A 90mm screen processes grade C wood down to a homogenous biomass product for a local energy plant, while a 130mm screen can be interchanged in as little as 15 minutes, to enable PSH Environmental to reduce the density of other skip, bulky and C&I wastes, for RDF.

The flexible shredder can also handle other bespoke products — even those notoriously considered economically unshreddable or too difficult to handle. The plant is now capable of throughputs of 40 tonnes of material per hour, which equates to 80,000 tonnes per annum.

REQUIREMENTS

- » Powered entirely using solar power
- » Complex, 'unshreddable' waste materials handling
- » High throughput capabilities, with ability to scale
- » Precise, homogeneous particle output for RDF
- » Robust technology that's engineered to last

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Running a 38-tonne shredder entirely off solar power may seem far-fetched, but we've proven it's possible — once you see the machine in action, you know exactly why you need it.

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— Daniel Parker
Director, PSH Environmental