

GEP ECOTECH's TDF Production Plan Fuels Power Generation in Macau

GEP ECOTECH has provided the Macau Waste Incineration Center with a production line that processes scrap tires into TDF at a rate of 3 tons per hour.

MACAU, CHINA, October 1, 2024 /EINPresswire.com/ -- GEP ECOTECH, a leader in solid waste processing technologies, has successfully implemented a [tire-derived fuel \(TDF\) production line](#) as part of the Macau Waste Incineration Center's third-phase expansion. The state-of-the-art facility processes scrap tires at a rate of 3 tons per hour, converting them into a high-calorific fuel that will contribute significantly to Macau's alternative energy needs.

This expansion not only boosts the city's capacity to treat municipal solid waste, now handling up to 1,300 tons per day, but also introduces advanced solutions for processing special and hazardous waste. As part of Macau's ongoing commitment to sustainability, the center is expected to produce 400 million kWh of energy annually from alternative fuels, a key component of the city's strategy to reduce its reliance on fossil fuels.

TDF, much like Refuse-Derived Fuel (RDF) and Solid Recovered Fuel (SRF), offers a sustainable alternative with energy output comparable to coal. It is widely used in industries with high energy demands, such as cement kilns and industrial boilers, where its combustion generates minimal ash residue. The metal components in the ash can further serve as a substitute for clinker raw materials, contributing to the production of higher-quality cement.

"High-Quality Technology for a Global Standard"



Wang Chunyang, GEP ECOTECH's Project Installation Manager, highlighted the significance of the company's involvement in this prestigious project: "The third-phase expansion at the Macau Waste Incineration Center features cutting-edge equipment sourced from leading global brands. Being selected to provide the TDF production line is a clear testament to the superior quality of our solutions. It reflects our commitment to international standards and underscores the trust that major clients place in our technologies."

GEP ECOTECH's [tire shredding system](#), specifically engineered for this project, ensures that scrap tires are processed efficiently, maximizing fuel output while minimizing waste. The technology plays a pivotal role in addressing both energy and environmental challenges by transforming discarded tires into a valuable resource.



TDF Production Plant in Macao



Macao Waste Incineration Plant

Solid Alternative Fuels: GEP ECOTECH's Advanced Solutions

In addition to its TDF solutions, GEP ECOTECH has developed comprehensive systems for producing RDF and SRF, which are also key components in waste-to-energy (WtE) strategies. RDF is typically composed of combustible materials like plastics, paper, and textiles recovered from municipal solid waste, while SRF is a refined version of RDF with stricter specifications, including a higher calorific value and lower moisture content. Both are used as alternative fuels in power plants, cement kilns, and industrial furnaces, reducing the demand for traditional fossil fuels.

GEP ECOTECH offers tailored [shredding and sorting solutions](#) for RDF and SRF production, ensuring high efficiency and consistent fuel quality. The company's advanced technologies, including multi-stage shredders, ballistic separators, and magnetic separation systems, enable precise sorting of recyclable materials and removal of contaminants, ensuring that the final fuel meets the required standards.

A Circular Economy Approach



The third-phase expansion uses top international brands with strict quality control. Our involvement reflects the client's trust and confirms that our product quality meets global standards"

Wang Chunyang

GEP ECOTECH's alternative fuels systems contribute to the circular economy by turning non-recyclable waste into valuable fuel resources, reducing landfill usage and lowering greenhouse gas emissions. These solutions are part of the company's broader commitment to sustainability, helping cities and industries meet their environmental targets while supporting renewable energy generation.

Driving Sustainability Through Innovation

The expansion of the Macau Waste Incineration Center

aligns with global trends in waste-to-energy initiatives, where the use of alternative fuels such as TDF, RDF, and SRF reduces greenhouse gas emissions and landfill dependency. By turning waste into a valuable energy source, GEP ECOTECH helps cities like Macau achieve their sustainability goals while contributing to the circular economy.

About GEP ECOTECH

Headquartered in China, GEP ECOTECH is a leading manufacturer of solid waste treatment and resource recovery systems. Through its AISHred brand, the company offers comprehensive recycling solutions for industrial, commercial, and municipal waste, as well as specialized applications like scrap metal and hazardous waste management. Committed to developing 100% recycling solutions, GEP ECOTECH is at the forefront of innovations aimed at reducing the environmental impact of human activities through sustainable technology.

For more information, visit <https://www.aishred.com>.

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