



Sharjah Waste-to-Energy Project

Sharjah, UAE

The Sharjah Waste to Energy Company (SWTE) a joint venture between Bee'ah, the Middle East's leading and award winning environmental management company, and Masdar, is developing a cutting-edge waste-to-energy plant in Sharjah, UAE.

Diverting around 300,000 tonnes of solid waste from landfills each year, the Sharjah Waste-to-Energy Plant will contribute to Sharjah's efforts to reach its zero waste-to-landfill target, and help the UAE achieve its 2021 goal of diverting 75 percent of solid waste from landfills.

The facility will incinerate around 37.5 tonnes of municipal solid waste per hour to generate energy and will be located in Bee'ah's existing Waste Management Facility in Sharjah, where the emirate's waste is collected, sorted, recycled and, where necessary, sent to landfills.

The incineration process converts waste into heat, which is then used to drive a steam turbine. The net electrical power produced will be up to 30 megawatts (MW), which will be supplied to the Sharjah electricity grid. The flue gas treatment plant will be designed to meet European Union (EU) environmental standards.

The partnership between Bee'ah and Masdar was signed and announced at Abu Dhabi Sustainability Week (ADSW) 2016, with the joint development agreement signed and announced during ADSW 2017. Financing agreements were signed in Q3 2018 with the lending banks and financial institutions. The project is expected to become operational by Q4 2021.

QUICK FACTS

- Processing more than 300,000 tonnes of Municipal Solid Waste per year
- Net power: Up to 30MW (energising 28,000 homes in Sharjah)
- First Commercial Waste to Energy Facility in Middle East
- Project displaces almost 450,000 tonnes of CO₂ emissions per year
- Project saves 45 million m³ natural gas per year
- Shareholders: Masdar 50% & Bee'ah 50%
- Commercial operation date set for Q4 2021
- Won the 2018 Thomson Reuters Project Finance International (PFI) Award for Clean Deal of the Year in Middle East and Africa
- Won the 2018 Structured Loan Deal of the Year Award at the Bonds, Loans and Sukuk Middle East Awards
- Won the IJ Global Awards 2018: Waste Deal of the Year, Middle East and North Africa
- Won the Middle East Energy Awards 2019, Clean Energy Initiative of the year