



# Sharjah Waste to Energy Project

Sharjah, UAE

The Sharjah Waste to Energy Company (SWTE) a joint venture between BEEAH, 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 SWTE Plant contributes Sharjah's efforts to reach its zero waste-to-landfill target, and helps UAE achieve its goal of diverting 75 percent of solid waste from landfills.

The facility incinerates around 37.5 tonnes of municipal solid waste per hour to generate energy and is located in BEEAH'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 is up to 30 megawatts (MW), which is supplied to the Sharjah electricity grid. The flue gas treatment plant has been designed to meet European Union (EU) environmental standards.

The partnership between BEEAH 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 was inaugurated in May 2022.

## QUICK FACTS

- Processing more than 300,000 tonnes of municipal solid waste per year
- Produces up to 30 MW (energizing 28,000 homes in Sharjah)
- First commercial-scale waste to energy facility in Middle East
- Project displaces almost 450,000 tonnes of CO<sub>2</sub> emissions per year
- Project saves 45 million m<sup>3</sup> natural gas per year
- Inaugurated in 2022
- 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