

Media Release, (18 July 2023)

First Electricity to Dubai's Grid – another landmark achievement for the world's largest Waste to Energy project

Hitachi Zosen Inova and its partner BESIX (Belgium) have passed another commissioning milestone on the Dubai Waste-to-Energy facility – the world's largest plant of its type – which is currently under construction in the UAE for the City of Dubai.

In 2020, joint venture partners Hitachi Zosen Inova and BESIX (Belgium), began construction on the world's largest Waste to Energy plant. The project is being delivered on schedule and reached a further project key milestone on 11 July 2023 with the first electricity transmission to the UAE's national power grid.

Dubai, United Arab Emirates: Hitachi Zosen Inova (HZI) and its joint venture partner BESIX (Belgium) have successfully delivered a further milestone for the Dubai Waste to Energy. As the facility's commissioning programme advances, HZI's specialist engineers have successfully overseen the first electricity transmission to the UAE's national power grid.

When fully operational in July 2024, this iconic facility will accelerate the City of Dubai's move away from landfill dependency. Instead, the new plant will use non-recyclable waste as a valuable resource to power around 135,000 homes across Dubai and the Emirates.

The joint venture partners have combined their considerable experience and deep understanding of complex infrastructure projects to bring this scheme through construction and into its commissioning phase. HZI has been widely recognised as the leading global Engineering, Procurement and Construction partner for waste management infrastructure over many decades. With BESIX's extensive experience and expertise in multifaceted infrastructure projects, the onsite works are progressing as planned.

Currently, with over 2,200 construction workers onsite, hot commissioning is proceeding on two of the facility's five combustion lines which are transmitting electricity to the grid. This will be followed by the three remaining lines in due course. Deliveries of more than 2,000 tonnes of municipal solid waste are currently arriving each day. On 20 June, the project teams were honoured to host H.H. Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of Dubai Executive Council, who officially inaugurated the Dubai Waste to Energy facility. Once fully operational, the new plant will treat over 1.9 million tonnes of waste, significantly reducing the UAE's landfill dependence and helping Dubai achieve its goal of 75% landfill diversion by 2025.

"To send the first electricity to the UAE's national grid is a huge achievement for HZI and BESIX. We're incredibly proud to be safely and efficiently moving through each commissioning milestone. To add power to Dubai's grid is a key moment for the City of Dubai and our onsite teams," said Roni Arajji, HZI's Managing Director Middle East. "Next year, this plant will deliver reliable baseload energy that will power around 135,000 homes, and, importantly, it will also help Dubai and the UAE to meet their environmental and landfill diversion goals."

"We take immense pride in our partnership with Hitachi Zosen Inova and the successful achievement of another significant milestone for the Dubai Waste-to-Energy project. This remarkable endeavour is a testament to our combined expertise and unwavering commitment to driving the transition towards a circular economy and reducing landfill dependency," said Benoit Vadani, BESIX's Vice-President, Director Development. "Together with Hitachi Zosen Inova, we are dedicated to delivering innovative solutions that align with Dubai and the UAE's ambitious goals for sustainable development."

Project Fact File:

1. Landfill is widely recognised as the least sustainable form of waste management.
2. The Dubai Waste to Energy facility will reduce landfill dependency, helping Dubai and the UAE achieve their goal of 75% waste diversion by 2025.
3. Currently, in its hot commissioning phase, the Dubai Waste to Energy facility is processing more than 2,000 tonnes of waste daily.
4. The project aims to be fully operational across all five lines by July 2024.
5. The plant will process 5,666 tonnes of waste daily, equivalent to 2 million tonnes annually.
6. The plant will generate approximately 200 MW of electricity, supplying power to around 135,000 homes in the region.
7. The Waste to Energy facility will treat waste as a valuable resource to generate power that will provide 2% of the UAE's electricity.
8. The facility supports Dubai and the UAE's commitment to combat climate change and deliver low-carbon economies that future generations can be proud of.

Note to Editors

About Hitachi Zosen Inova

Zurich-based green-tech company Hitachi Zosen Inova (HZI) is a global leader in solutions for energy transition and circular economy including Energy from Waste (EfW) and Renewable Gas (RG), operating as part of the Hitachi Zosen Corporation Group. HZI acts as a project developer, technology supplier and engineering, procurement and construction (EPC) contractor delivering complete turnkey plants and system solutions for thermal and biological waste recovery. Its solutions are based on efficient and environmentally sound technologies, are thoroughly tested, and can be flexibly adapted to customer requirements. HZI's Service Solutions Group combines its own research and development with comprehensive manufacturing and erection capabilities to provide support throughout a plant's entire plant cycle. HZI works for customers ranging from established waste management companies to up-and-coming partners in new markets. Its innovative and reliable solutions have been part of more than 1,600 reference projects worldwide. To find out more about HZI, please visit www.hz-inova.com.

About BESIX:

BESIX is a leading Belgian company that has evolved from an esteemed contractor into a full-service enterprise that brings excellence and added value to all its projects. With a presence in more than 25 countries across five continents, the company is committed to sustainable growth and development in the communities where it operates. BESIX entered the Middle East market in 1965. Since then, BESIX has earned a reputation as a trusted partner for clients and partners. Please visit www.besix.com.

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