

January 24, 2024

Consecutive Orders Awarded for Biogas Plant-Related Equipment (Gas purification, carbon dioxide liquefaction, etc.) ~ Three Projects in the UK, Contributing to the Circular Economy ~

Hitachi Zosen Inova AG (Switzerland, hereafter “HZI”), which is a wholly-owned subsidiary of Hitachi Zosen Corporation and engaged in the design, construction, maintenance, and operation of Waste-to-Energy plants and renewable gas plants, has received two orders to enhance the functionality of existing biogas plants in the UK, including equipment for biomethane production, liquefied carbon dioxide (CO₂), etc. The biogas plants are owned by Bio Capital Ltd. (UK, hereafter “Bio Capital”), which operates many anaerobic digestion plants in the UK.

Including a previous order for another biogas plant-related equipment last September, the total number of orders received from Bio Capital is three now.



East London Biogas plant for which HZI will deliver new equipment ©Bio Capital Ltd.

This time, two projects are awarded for biogas plants in East London and Norfolk in the east of England. For East London Biogas, HZI will deliver a gas upgrading unit (equipment to separate CO₂ from biogas and produce highly purified biomethane). For a plant in Norfolk, HZI will deliver a CO₂ liquefaction system. Besides, for the previous order awarded last September for Granville Eco Park in Dungannon, Northern Ireland, HZI will also deliver a CO₂ liquefaction facility. For all three projects, HZI will be responsible for the engineering and procurement.

Each plant has been producing renewable gas or electricity and fertilizers from food waste. The biogas upgrading plants can produce highly purified biomethane. The CO₂ separated in the upgrading process will be used by the food industry in the UK.

Enhancement of HZI's business in these areas will meet the growing demand for biogas and biomethane in Europe, reduce the emissions of climate-damaging CO2, and contribute to the long-term supply of renewable energy.

Hitachi Zosen Group, under its medium-term management plan "Forward 25", plans to invest approximately JPY75 billion to expand its biogas and other businesses. The above-mentioned orders are part of this initiative. We will continue to contribute to the realization of the circular economy by utilizing the biogas and biomethane-related technologies.

The outline of the projects is as follows.

Existing plant	East London Biogas	Corbiere Renewables	Granville Eco Park
Client	Bio Capital Ltd. (UK)		
Location	East London (Northeastern London)	Norfolk (Eastern England)	Dungannon (Northern Ireland)
Equipment (Capacity)	Gas upgrading system (Treatment Capacity : 1,200Nm ³ /h)	CO2 liquefaction equipment (Production Capacity : 750kg/h)	CO2 liquefaction equipment (Production Capacity : 1,000kg/h)
Schedule	First feed-in August 2024	Commissioning from Dec. 2024/Feb. 2025	Delivery in 4Q-2024

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