Plant to Feature Concord Blue's Waste to Energy Technology

Lockheed Martin Secures $43m EPC Contract for 5 MW Waste Gasification Plant in Germany

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Lockheed Martin, and waste gasification technology firm, Concord Blue, are to begin phase two of a new 5 MW waste to energy plant in Herten, Germany.

© Lockheed Martin's SR-71 Blackbird

Bethesda, Maryland based global security and aerospace giant, Lockheed Martin, and waste gasification technology firm, Concord Blue, are to begin phase two of a new 5 MW waste to energy plant in Herten, Germany.

Under phase two, Concord Blue said that it has awarded Lockheed Martin Energy a $43 million contract to proceed with all engineering, procurement and construction of the 5 MW waste to energy plant with a planned completion date in 2017.

In 2014, the two companies announced plans to build the facility and have since successfully completed all planning, simulation, supplier logistics and preliminary design, clearing the way for the build to begin.

The bioenergy facility will transform forestry waste to energy using Concord Blue's Reformer technology.

Technology

The process uses heat carrier balls, heated to over 400 degrees Celsius and dropped from the heat carrier vessel and mixed in with the organic waste.

Then, in a two-stage thermolysis process the waste is converted into syngas. Finally, the gas produced in the thermolyser then travels to the separate reforming vessel, where it is transformed into high quality syn-gas.

According to Concord Blue the technology can convert nearly any kind of organic waste into clean, renewable energy with no harmful byproducts.

The company said that the Herten waste to energy will produce enough energy to power around 5000 homes and businesses from 50,000 tonnes of raw waste per year, significantly reducing the need for landfill use.

"The construction of the Herten Project marks an important milestone for our partnership with Lockheed Martin. We continue to be extremely pleased with the quality of work and value they provide to this project and will provide for many projects to come," commented Charlie Thannhaeuser, chairman and CEO of Concord Blue.

Teaming Agreement Extended

Additionally, Lockheed Martin and Concord Blue signed a modification to the existing teaming agreement established in 2013 to extend the partnership ten years though 2026, with options for further extension.

The companies said that the agreement enables Lockheed Martin to serve as Concord Blue's Engineering, Procurement and Construction (EPC) contractor for future bio energy conversion projects and to continue serving as the exclusive manufacturing provider of the Concord Blue Reformer.

Lockheed Martin Energy is a line of business within Lockheed Martin that delivers solutions across the energy industry to include demand response solutions, energy efficiency, energy storage, nuclear systems, ocean energy technologies and bioenergy generation.

"Our bioenergy technology is a key element of our portfolio and has the potential to be a true game-changer for both the energy generation and waste management markets," commented Frank Armijo, vice president of Lockheed Martin Energy.

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Lockheed Martin Signs Waste to Energy Gasification Technology Agreement

Lockheed Martin has signed a manufacturing agreement with waste gasification technology developer, Concord Blue, to provide all manufacturing support for the Concord Blue Reformer technology.

Gasification Technology Moves Lockheed Martin into Waste to Energy

U.S. defense contractor, Lockheed Martin is moving into the waste to fuel gasification technology business, following a deal with LA based waste to fuels specialist, Concord Blue.

VIDEO: German Tri-Generation Waste Gasification Tech Firm Expands in UK

ENTRADE, which manufactures a micro generator that uses gasification technology to generate onsite heat, power and cooling from a wide variety wastes including waste and food, has expanded its UK operations near Liverpool.

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