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Renewable Energies: Bouygues Construction to Build a New Waste-to-Energy Gasification Plant in Belfast

Tags : [Biomass](#) [2], [Desing & Build](#) [3], [Gasification Plant](#) [4], [Waste-to-Energy](#) [5]



Waste-to-Energy Gasification Plant

The Full Circle Generation investment fund, which consists of the developer RiverRidge Energy and a consortium of investors made up of Green Investment Bank, Equitix and P3P Partners, has awarded a contract worth more than €202 million to Bouygues Energies & Services, a subsidiary of Bouygues Construction, for the turnkey delivery of a waste-to-energy gasification plant in Belfast, Northern Ireland.

Bouygues Energies & Services will be responsible for the engineering, procurement and construction of the 15 MWe facility, and will then carry out operation and maintenance for 17 years. The waste-to-energy power plant will be the largest in the island of Ireland.

Jean-Christophe Perraud, CEO of Bouygues Energies & Services, said: "This new contract follows on the contract that we signed in February for the 10 MWe waste-to-energy gasification plant in Hoddesdon, England. It confirms Bouygues Energies & Services' capacity to deliver a large, complex industrial project in the energy infrastructure sector. The new facility will go a long way towards helping Northern Ireland achieve its annual targets for recycling and generating energy from renewable sources."

The gasification plant will have a capacity of 60 MWt. When converted by two steam turbine generators, this will generate 15 MWe of power. Net annual green electricity exported to the grid will be 100 GWh. A neighbouring Bombardier Aerospace manufacturing plant will be the principal user.

The waste-to-energy facility will contribute to treating more than 150,000 tonnes of feedstock derived from local commercial and industrial waste and will enable Northern Ireland to save 50,000 tonnes of carbon per year.


Bouygues Energies & Services will provide a turnkey solution using a state-of-the-art technology developed in conjunction with Biomass Power Ltd.

Construction works, which will involve 200 people at peak periods, will begin in January 2016, with

handover scheduled for late 2017. The operation and maintenance contract will subsequently lead to the creation of 20 local full-time jobs.

Bouygues Energies & Services develops tailor-made and turnkey projects for photovoltaic, thermal, cogeneration and waste-to-energy power generation plants. The Bouygues Construction subsidiary is capable of delivering all aspects of a project, whether it be financial engineering, design and construction or operation and maintenance. Bouygues Energies & Services is currently operating a photovoltaic plant in Thailand, which it constructed. It is now constructing two thermal power plants in Saint-Martin (in the French West Indies) and Gibraltar, as well as a waste-to-energy gasification plant in England.

Document available for download :

-  [Press Release - Waste to Energy Gasification Plant - \[pdf\]](#) [6]