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Deal secured for gasification of 240,000 tonnes of waste per year at Hooton Bio Power Ltd.

Collaboration between Burmeister & Wain Scandinavian Contractor (BWSC), CoGen, Peel Environmental, N+P Group, Kobelco Eco Solutions, local authorities and strong financing partners secures impressive waste gasification plant in North West England.



The Hooton Bio Power facility will be the fifth Energy from Waste (EfW) project delivered by leading renewable energy developer CoGen and will be the first non-subsidised merchant gasification facility. It is the first time the UK market will realise a gasification plant of this size, based on fluidised bed technology provided by Japanese Kobelco Eco Solution.

The facility will be developed on the Peel Environmental site, Hooton Park, the second Peel site on which CoGen will deliver a gasification plant. The first in the ongoing partnership was the recently commissioned 21.5MW Ince Bio Power plant at Protos in Cheshire.

Power facility specialist, Burmeister & Wain Scandinavian Contractor A/S (BWSC), will deliver the high efficiency waste gasification plant, located south of the Wirral, North West England. The project is backed by solid UK investors and is in line with the UK target of delivering efficient and environmentally friendly energy, while reducing landfill by 10% by 2020. BWSC has an extensive list of UK-based projects, having built nine biomass-fuelled power facilities in the UK, most of which it also operates.

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The Hooton facility will gasify some 240,000 tonnes of waste per year, generating more than 200 GWh of electricity annually – enough to power about 50,000 homes. The facility is expected to be operational in the second half of 2021.

Around 350 jobs will be associated with the construction stage at its peak, and the ongoing operation of the facility will generate up to 30 permanent positions.

### **About the project**

This CoGen developed project will see BWSC awarded a full turnkey build contract (full EPC and build contract) as well as a contract to operate and maintain the facility for 15 years post completion. BWSC will deliver the Hooton facility utilising the Kobelco Fluidised bed technology. CoGen is overseeing the construction and operation of the facility as Project Manager on behalf of the project company. In addition, CoGen has a contract to fully manage the facility during the operational period. Hooton Bio Power will be fuelled by locally-sourced waste, using 240,000 tonnes each year supplied via a 15-year feedstock supply agreement (with an option for a further 10 years) with fuel supplier N+P Group.

Nikolaj Holmer Nissen, newly appointed CEO at BWSC, says:

“Determined and constructive cooperation has brought this important waste gasification project over the finishing line. The plant will add to the extensive experience BWSC has obtained in the UK market - experience that will help pave the way for successful project implementation. The Hooton Bio Power Ltd is a good example of BWSC constantly striving to develop new and more energy efficient solutions for the benefit of our customers and the environment.”

Ian Brooking, CEO, COGEN, says:

The completion of the Hooton Bio Power deal represents a significant milestone for the UK Energy from Waste sector. The project underpins CoGen’s longer-term plans of developing regional scale merchant gasification facilities across the UK. We look forward to following the approach we took with Hooton as we begin to roll out more projects in our pipeline.

Karel Jennissen, CEO, N+P Group B.V, says:

We are very delighted that this project has reached completion; this deal is a very important milestone in N+P’s UK growth strategy. The Hooton Fuel Supply agreement shows that N+P is able to deliver its promises and guarantee a specification, to ensure our end-customers get the most value for their money. We look forward with great enthusiasm to the project implementation and roll out of other projects within this partnership.

Myles Kitcher, Managing Director Peel Environmental, added:

“This Hooton Park facility will deliver the equivalent energy to power 50,000 homes and is strategically placed to form part of the wider Energy Innovation District securing low carbon and lower costs energy in turn promoting indigenous growth, encouraging inward investment and stimulating innovation. We are delighted to see this project involving some of the sector’s leading companies come to fruition demonstrating the collective drive, which is helping to shape the future of energy in both the Northwest and the UK as a whole.”

### **About Burmeister & Wain Scandinavian Contractor (BWSC)**

BWSC is a Danish engineering and contracting company that takes a leading role in the development of Independent Power Producer (IPP) projects. BWSC builds and operates high-performance engine and boiler-based power plants, where the majority are supplied as turnkey plants. BWSC has delivered more than 180 power plants to 53 countries worldwide. Currently, BWSC has on-going activities in the UK, Faroe Islands, Japan, Lebanon, Sri Lanka, Kenya, Benin, Mali and Bermuda. In 2017, BWSC had a turnover of EURm 395, and the order backlog amounted to EURm 956 at end-2017. BWSC originates from the stationary engine division of Burmeister & Wain (B&W), which has built and installed diesel engines since 1904. BWSC has recently acquired the Danish boiler manufacturer Burmeister & Wain Energy (BWE) and thus secured its position as a leading energy company on the global market for small and medium-sized biomass power plants.

### **About CoGen:**

CoGen is a specialist developer of advanced Energy from Waste (EfW) projects in Europe. It has four facilities currently in operation in the UK, with an export capacity of 45 MWe. CoGen offers an end-to-end solution, developing projects from site identification through to operation and maintenance of the facilities it delivers. With a further double digit pipeline, CoGen aims to have 200 MWe installed capacity, utilising 2 million tonnes of waste, either operating or under construction by 2021. Sites are selected to minimise the transportation of waste and to ensure local benefit is gained from community waste. CoGen utilises proven technologies and experienced EPC/O&M contractors to execute multiple contracts concurrently across the UK. CoGen is currently looking to further leverage its experience and extend its reach into the waste markets throughout Europe.

### **About Japanese Kobelco Eco Solution:**

Kobelco Eco Solution is a technology focussed company specialising in environment technologies, in particular gasification. It has a long-established experience in bubbling fluidised bed, fluidised bed incineration and swirl flow melting furnace technologies. These proven technologies have been integrated and developed into the fluidised bed Gasification and melting technology. The gasification technology has been deployed successfully since 2000 and Kobelco currently has 17 commercial scale references plants operating mainly in Japan with 2 plants in South Korea. In addition, Kobelco has a further 2 plants under construction. Kobelco's commercial activities are supported by its Technical Research Centre with 100 engineers and scientists working on research and development for their clients and the realisation of the next generation technologies.

### **About N+P Group**

For more than 25 years the production and supply of alternative fuels and alternative raw materials has been the core activity of N+P. The company has specialized in producing 'Waste to Fuel' for various industries such as the cement, steel and lime industry as well as for (Fossil fuel fired) Power Stations and Energy from Waste plants. The N+P Group moves more than 2,000,000 tons per year of waste derived fuels all over the world. In N+P's view, waste is not a problem but a valuable resource and by using state of the art processing N+P can produce alternative fuels of very high quality. It is always N+P's priority to utilize local waste streams as feedstock into energy from waste facilities thus ensuring that local waste management issues are resolved and ensuring that the carbon footprint of feedstock sourcing is always kept to a minimum.

## **About Peel Environmental Ltd**

Peel Environmental Ltd (part of Peel L&P) works with landowners, investors, operators, contractors and technology providers to develop deliverable business models for waste and environmental technology projects by offering property solutions and delivering consented property to facilitate development in established and emerging markets. Peel Environmental have a development pipeline of energy from waste and waste infrastructure projects across the UK.

Peel Environmental is also the company behind the Protos development which is a 51ha development focused on energy, innovation and industry in Cheshire. It and has since 2014 been working with operators wanting to build and operate small scale power stations and battery storage sites that operate under Capacity Market contracts from the National Grid. Peel now has nearly 180MW of sites that are in operation or construction for the Capacity Market and have a potential additional 600MW of sites that could be developed over the next 5 years.

Peel L&P own and manage 1.2 million m<sup>2</sup> of property and 15,000 hectares of land and water. Concentrated on the North West of England, it is one of the foremost real estate, infrastructure and transport investment enterprises in the UK, with a total portfolio value of £2.3 billion.

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