

CEG delivers 200 tonnes of CEG BioCoal for a European customer trial.

Clean Electricity Generation (CEG) is pleased to announce the successful delivery of CEG BioCoal pellets for the first of its 2019 program of customer trials. Sustainably-sourced CEG BioCoal pellets are a renewable biomass drop-in replacement for fossil coal. The 2019 program of customer trials is in support of Baltania, a planned commercial-scale CEG BioCoal pellet production plant in Estonia. CEG plans to supply eight torrefaction reactors to Baltania, for a combined CEG BioCoal pellet output of 157,000 tonnes per annum. CEG currently operates two full-scale torrefaction reactors through its UK operating entity, Bio2Carbon, located in Derby, UK. The Derby facility is producing torrefied CEG BioCoal for utility boiler trials and conducting torrefaction trials of new sustainably-sourced feedstocks.

200 tonnes of CEG BioCoal pellets were shipped from its storage facility in the UK to the end-user in France, using bulk transport. The customer was a leading French district heating system; they combusted CEG BioCoal using a CFB boiler. The CEG BioCoal pellets delivered were high-energy, approximately 23 MJ/kg, and exhibited the advantages of torrefied biocoal pellets over white wood pellets, including improved hydrophobic behaviour and improved materials handling. The test burns were carried out successfully between 27th and 30th March 2019. The burn results were successful at all levels of co-firing, up to and including 100% CEG BioCoal. The 200 tonnes of CEG BioCoal pellets exhibited consistent quality and characteristics.

The transaction was executed by Cleantek Trade, a Paris-based trader of a range of biomass. Cleantek Trade was the first trader to successfully market biocoal pellets to utilities. Cleantek Trade is confident that this transaction provides the foundation for CEG BioCoal to be phased-in and well-received throughout Cleantek Trade's customer base. The upcoming commissioning of the Baltania plant will provide customers with commercial-scale volumes within a short time frame.



Description of CEG

CEG supplies proprietary torrefaction reactors for the production of CEG BioCoal. CEG BioCoal is a renewable drop-in replacement for fossil coal. CEG's proprietary torrefaction reactors produce a range of value-added torrefied products, using a range of sustainably-sourced raw biomass feedstocks. CEG's torrefaction reactors yield torrefied material in the range of 21 MJ/kg to 30 MJ/kg, suitable for outdoor storage, with the same grinding, combustion and handling characteristics as fossil coal.

Description of Baltania

Baltania is a planned commercial-scale CEG BioCoal pellet production plant in Estonia. It has a planned output of 157,000 tonnes per annum, starting production in 2020.

Description of Cleantek Trade

Cleantek Trade buys and sells a range of biomass within Europe, including woodchips, woodpellets, pulp logs, and olive residues. Their clients span the energy sector - major industrial utilities, local district heating networks and regional fuel distributors - as well as the forestry sector. All end-users are situated close to ports. Cleantek's activities are led by employees with experience in the pulp & paper trade, utility buyers, and financial risk managers. Cleantek Trade operates from France, Denmark & Finland, covering sales within the whole of Europe.

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