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Blackwood Technology Awarded Biomass Torrefaction Test and Sample Production Program for Japanese Steel Manufacturer

Blackwood Technology B.V. ("Blackwood") is pleased to announce that it has been awarded a Biomass Torrefaction Test and Sample Production Program for a Japanese steel manufacturer in collaboration with a Japanese trading company.

Blackwood owns its proprietary torrefaction technology, *FlashTor*[®], which enhances both the calorific value and hydrophobic properties of biomass through the torrefaction process. Using this technology, Blackwood produces and supplies Black Pellets or Torrefied Biomass, a high-value solid biofuel.

Mr. Toshihiro Sasanuma, Director of Sales commented that torrefied biomass, as well as Black Pellets, has the potential to be used as a substitute for coal in steel manufacturing processes. Depending on the specific process, feedstock characteristics, and technical conditions, torrefied materials can replace up to 100% of coal while maintaining the required characteristics. This provides significant potential for reducing fossil fuel consumption and CO₂ emissions in the steel industry.

The potential volume of torrefied biomass utilization and the applicable replacement ratio will be further assessed through this test and sample production program. Mr. Sasanuma continued to comment that this project promotes the utilization of diverse biomass resources beyond wood-based feedstocks and will contribute to the realization of a decarbonized society.

FlashTor[®] technology

The FlashTor[®] technology is a thermal pre-treatment technology which facilitates the large-scale replacement of fossil coal by renewable biomass. The FlashTor[®] technology can be used for torrefaction as well as carbonization of biomass. Torrefaction improves the fuel and handling characteristics of biomass and reduces the costs of the biomass-to-energy supply chain. Torrefied biomass is a carbon-neutral, high-quality solid biofuel, which can replace thermal coal in power stations, industrial boilers and gasification plants, using the existing plant infrastructure. At a higher carbonization degree, the resulting SuperBlack[®] pellets can

replace pci coal in blast furnaces and cokes as a reducing agent in metallurgical processes and silica production. The FlashTor® technology is instrumental in unlocking the full potential of biomass for the purposes of decarbonizing power and heat generation, steel and other metal production, as well as for the production of bio-based fuels and chemicals.

About Blackwood Technology B.V.

Blackwood is a Dutch cleantech company, focusing on the torrefaction and carbonization of biomass. Blackwood's leading and proven FlashTor® technology turns forestry and agricultural residues into a high-grade solid biofuel or biocarbon. Blackwood provides engineering services, sells FlashTor® systems and licenses its patented FlashTor® technology to developers of torrefaction and biocarbon projects. Together with its partner TTCL, the company operates a testing facility, Demo plant and Commercial plant in Thailand. The company is working with strategic partners to roll-out its proprietary technology world-wide.

About TTCL Public Company Limited

TTCL is an integrated Thai Engineering, Procurement and Construction (EPC) and investment company. TTCL was formed in 1985 and the company is now listed on the Thailand stock exchange. Traditionally, TTCL's EPC business focused on petrochemical, chemical and fertilizer plants as well as power generation projects. In recent years, TTCL shifted part of its activities onto renewable energy and environmental projects. In 2017, TTCL started investing into biomass renewable energy projects and is currently setting-up a supply-chain of black pellets. In 2020 TTCL became a majority shareholder in Blackwood.



Raw material biomass



Biomass after torrefaction

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