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Powerhouse Energy Group PLC
14 August 2024

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Powerhouse Energy Group Plc
("PHE" or the "Company")

Update on Technical Centre

Powerhouse Energy Group Plc (AIM: PHE), a company pioneering integrated technology that converts non-recyclable waste into low carbon energy with a revenue generating engineering consulting division (Engsolve), provides an update on the progress of its Technical Centre at Bridgend in Wales.

Following the delivery of the Thermal Conversion Chamber (TCC) kiln in June, the unit has now been re-positioned to produce the required operational angle and has been mechanically completed. The kiln is the centre piece of the Feedstock Testing Unit (FTU). The gas clean-up system from VUM of Germany has been mechanically completed and located in its final position within the building.

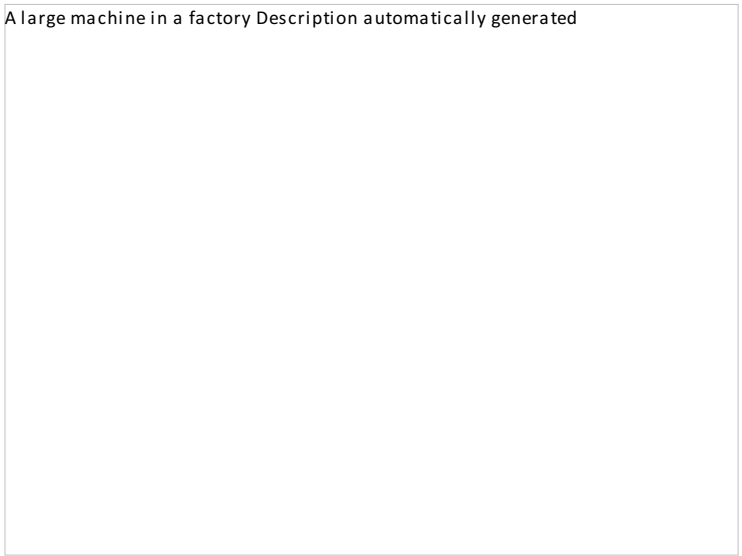
Full Geotechnical and topographical surveys have also now been completed outside the building to allow for the safe placement of the produced water tank and Nitrogen storage tank. This enables foundation designs to be completed and civil engineering works to begin in September 24.

The process control system and panel are being produced by a local company, TAG Controls and Automation Ltd, which Engsolve has previously used during the TrimTabs Carbon nano-tube project. The build of the process control system and panel is based upon PHE's specific Functional Design Specification developed by Engsolve.

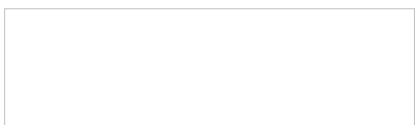
The final pieces of the FTU, the cyclone and pipe spools, are currently in fabrication offsite ready for installation. The target for the completion of the installation and commissioning work remains mid to late Q4 2024.

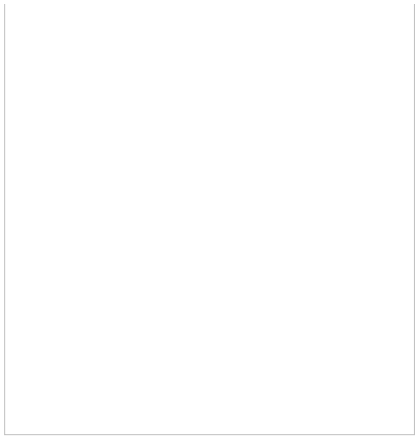
The FTU has a nameplate capacity to transform 2.5 tonnes per day of waste into Syngas and is a reduced size version of the proposed commercial process, with the capability to produce around 250kW of electrical power dependent upon feedstock, or approximately 200kg a day of hydrogen when the required separation process is installed. The FTU will initially be utilised for R&D and investor / customer demonstrations, after which the Company will evaluate commercial opportunities for the process.

Paul Emmitt, CEO of PHE, commented:
"We are pleased with the consistent progress of the FTU build. Using our own in-house engineering capabilities and local suppliers means we can be flexible and efficient. We have no large outstanding items and can now fully concentrate on the mechanical completion in readiness for the control system and preparing the external area for civils for the tank deliveries."

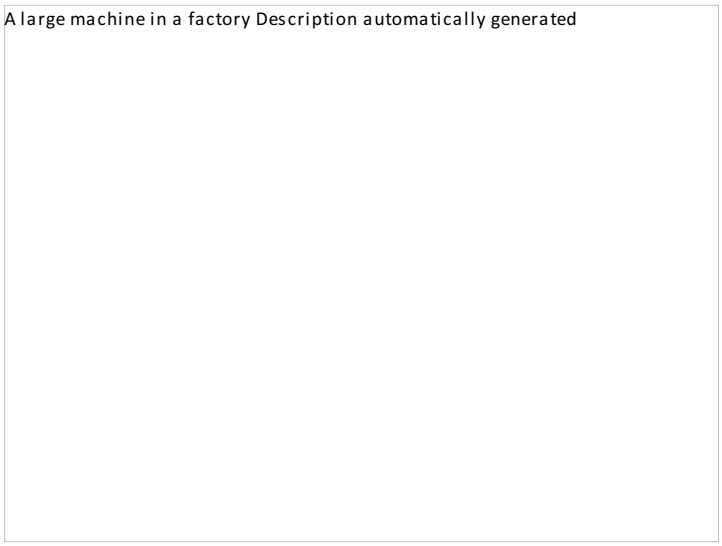


Mechanically completed Kiln in PHE Bridgend Technical Centre





Mechanically completed Gas clean up System



Kiln and Gas clean up System in situ

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About Powerhouse Energy Group plc

Powerhouse Energy has developed a process technology which can utilise waste plastic, end-of-life-tyres, and other waste streams to convert them efficiently and economically into syngas from which valuable products such as chemical precursors, hydrogen, electricity, heat and other industrial products may be derived. PHE's process produces low levels of safe residues and requires a small operating footprint, making it suitable for deployment at enterprise and community level.

PHE also incorporates Engsolve Ltd, which is a revenue generating business who offer Engineering Services across all sectors with speciality services in the development of new technologies and clean energy.

For more information see www.phegroup.com

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