



1st October 2024

**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), is pleased to provide an update on the progress of its Technical Centre at Bridgend in Wales.

The Company have now taken delivery of the Instrument air and Nitrogen Generation package from Atlas Copco; following the earlier deliveries of the Thermal Conversion Chamber ("TCC") kiln from AGICO and the gas clean-up system from VUM of Germany.

Further to the Company's previous announcement on 14<sup>th</sup> August 2024, the civil works for the external Nitrogen and Produced water tanks, which began in September, are progressing as per schedule.

The process control system and panel have advanced as expected and the Company will begin cabling in October, as well as installing all of the utility and syngas pipework.

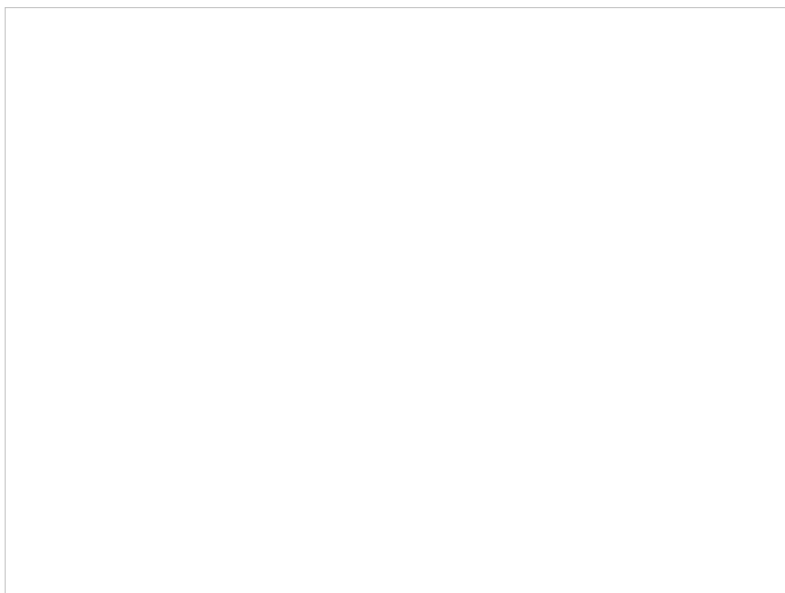
The targeted completion date of the installation and commissioning work remains mid to late Q4 2024.

In parallel to the FTU works, we have relocated the demonstration unit from the Chester site to Bridgend, completing the consolidation of PHE operations to the Bridgend site.

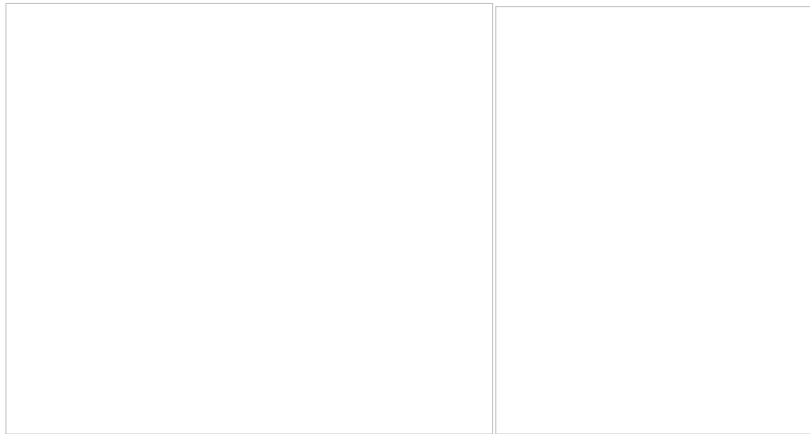
The FTU has a nameplate capacity to transform 2.5 tonnes per day of waste into Syngas and is a reduced size version of the proposed commercial process, which has the capability to produce around 250kW of electrical power dependent upon feedstock, or approximately 200kg a day of hydrogen when the required 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:**

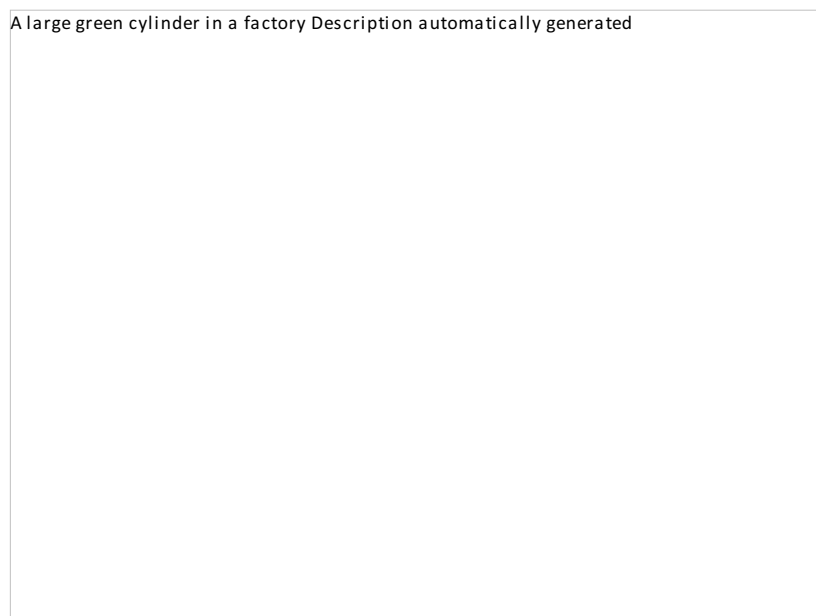
*"I am extremely pleased with the progress we are making on the FTU build, whilst we continue to maintain our schedule and budget. This is a hugely significant milestone for the Company as having a fully operational technology centre will undoubtedly help provide us with even greater impetus to our pipeline whilst further innovating the services that we can provide. We look forward to providing further updates as we progress towards completion in Q4 this year."*



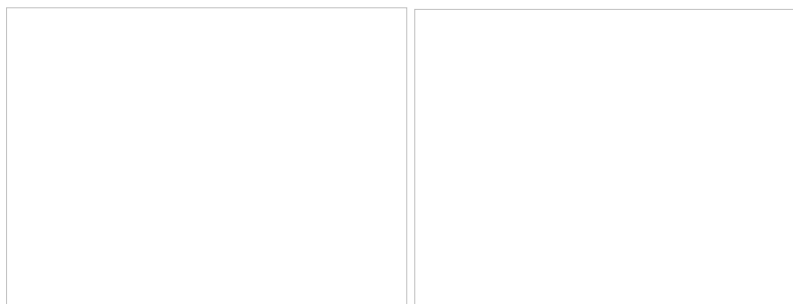
Atlas Copco Instrument air and Nitrogen generation package at Bridgend Technical Centre



Atlas Copco Instrument air and Nitrogen generation package at Bridgend Technical Centre



Nitrogen storage vessel at Bridgend Technical Centre



Progression of Civils works for Ground flare base, Nitrogen tank and produced water tank

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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](http://www.phegroup.com)

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