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15 October 2024

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

European Patent Grant Confirmed

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 announce that it has been notified by the European Patent Office that the Company's European Patent EP3999257 (Application No 20751207.0), "Method and Apparatus for the Treatment of Waste Material", was fully granted on the 11 October 2024.

This Patent is the resumption of the application that was announced as contested in the Company's announcement of 6 November 2023. The patent is in relation to protection around the control of the heating of the waste within the Thermal Conversion Chamber ("TCC") over several zones to allow the optimum synthesis gas to be produced. This allows the temperature profile in the TCC to be adjusted to give the optimal syngas composition. The TCC is the main thermal chamber or kiln where the conversion of the waste feedstock to a syngas takes place.

The UK and Europe are expected to become key markets and the granting of patent protection in these territories is therefore an important step for the Company. PHE continues discussions with a number of clients, from a diverse range of industries and sectors, each of which requires a solution for their waste and are seeking to reduce reliance on virgin fossil fuels.

PHE looks forward to progressing its other patent applications within the UK, Europe and the rest of the world.

Paul Emmitt, Chief Executive Officer of PHE, commented:

"I am delighted that this patent has finally been granted. This justifies the hard work put into the application, and into the development of the technology preceding that, by the PHE team. This is the second patent to be granted to the Company and provides significant protection for the Technology that differentiates PHE from others in the waste-to-energy sector. I look forward to providing further updates in due course."

The information contained within this announcement is deemed to constitute inside information as stipulated under the retained EU law version of the Market Abuse Regulation (EU) No. 596/2014 (the "UK MAR") which is part of UK law by virtue of the European Union (Withdrawal) Act 2018. The information is disclosed in accordance with the Company's obligations under Article 17 of the UK MAR. Upon the publication of this announcement, this inside information is now considered to be in the public domain.

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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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