



22 May 2025

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

Further Patent Grants

Powerhouse Energy Group Plc (AIM: PHE) a company pioneering integrated technology that converts non-recyclable waste into low carbon energy, together with a revenue generating engineering consulting division (Engsolve), is pleased to provide the following update in relation to Patents it has applied for and successfully been granted during the first half of 2025.

US Patents:

- Patent No US 12,280,407 Granted 22 April 2025 - Waste Treatment - Temperature Zones
- Patent No US 12,303,951 Granted 20 May 2025 - Treatment of Waste - Steam Ratio

European Patents:

- Patent No EP3999258 Granted on 12 Feb 2025 - Thermal Conversion Process - Fuel Mix

In addition, the Company is awaiting the grant of several other applications.

These patents further support the credibility of Powerhouse's DMG process and allow the Company to target additional markets with the necessary IP protection.

PHE looks forward to progressing its other patent applications within the UK, Europe and the rest of the world and will continue to provide appropriate updates as and when appropriate.

Paul Emmitt, Chief Executive Officer of PHE, commented:

"The continued advances that we have achieved on our patents further outlines the excellent progress that PHE is making, whilst also providing significant protection for our technology; differentiating PHE from others in the waste-to-energy sector. We look forward to providing further updates on this area in due course."

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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 offering 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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