



20 November 2025

**Powerhouse Energy Group Plc**  
("Powerhouse", "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 second half of 2025.

**US Patents:**

- Patent No 12,434,280 granted 7 October 2025 - Thermal Conversion Process - Fuel Mix
- All three patents have now been granted to the Company in the US

**Indonesian Patents:**

- Patent No P00202201157 granted on 27 October 2025 - Treatment of Waste - Steam ratio
- PHE now has only one patent still pending in Indonesia

**Australia:**

- Patent No 2020312795 granted on 23 October 2025 - Treatment of Waste - Steam ratio
- The two remaining Australian patents have been allowed and the Company is awaiting a grant date for both

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

These patents further endorse Powerhouse's DMG process and will enable the Company to target further additional markets with the necessary IP protection. PHE also 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.

**Paul Emmitt, Chief Executive Officer of PHE, commented:**

*"The continued granting of our patents provides us with additional protection whilst we continue to drive our technology towards commerciality and further supports the Company's discussions with global clients. We look forward to providing further updates on this area in due course."*

**For more information, please visit [www.phegroup.com](http://www.phegroup.com) or contact:**

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

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