

AGS Farm Nutrient Resilience Programme™

Unlocking Energy, Nutrient Value and Long-Term Farm Resilience from Organic Waste

Supporting the future of sustainable agriculture through nutrient recovery, renewable energy and biochar innovation.

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Overview:

The UK agricultural sector faces increasing pressure from rising fertiliser costs, energy price volatility, environmental regulation, water quality concerns and the need to improve long-term sustainability.

At the same time, substantial quantities of energy, nutrients and carbon remain embedded within agricultural waste streams including poultry litter, livestock manures, digestates and other organic residues.

The AGS Farm Nutrient Resilience Programme™ has been established to explore practical solutions that can help farms recover greater value from these resources while supporting sustainable food production and environmental stewardship.

The Programme promotes a broader view of organic waste, recognising these materials as valuable resources capable of contributing to farm resilience, nutrient security, renewable energy generation and carbon management.

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Why Farm Nutrient Resilience Matters

Modern farming relies heavily upon access to affordable nutrients, energy and productive land.

However, UK agriculture faces increasing exposure to:

i) Fertiliser price volatility
ii) Dependence on imported agricultural inputs
iii) Rising energy costs
iv) Nutrient runoff pressures and Nitrate Vulnerable Zones (NVZ's) compliance requirements
v) Water quality challenges
vi) Carbon reduction requirements
vii) Future environmental regulation

Improving farm resilience means finding ways to recover greater value from resources already available within the agricultural system.

Why Now?

“Fertiliser prices more than doubled during the 2021–2022 energy crisis.”

- Fertiliser price volatility
- Imported nutrient dependency
- Sustainable Farming Incentive (SFI26) opportunities
- River Wye pressures
- Carbon Border Adjustment Mechanism (2027)
- Water quality concerns
- Growing demand for nutrient recovery




Meet the Four Pillars of
Farm Nutrient Resilience



Energy Resilience:

Supporting farm energy security through renewable energy recovery and reduced dependence on fossil fuels

Nutrient Resilience:

Recovering and retaining value from nutrients already present within agricultural operations.

Carbon Resilience:

Creating opportunities for carbon storage, emissions reduction and future environmental value

Environmental Resilience:

Supporting cleaner waterways, healthier soils and improved resource stewardship

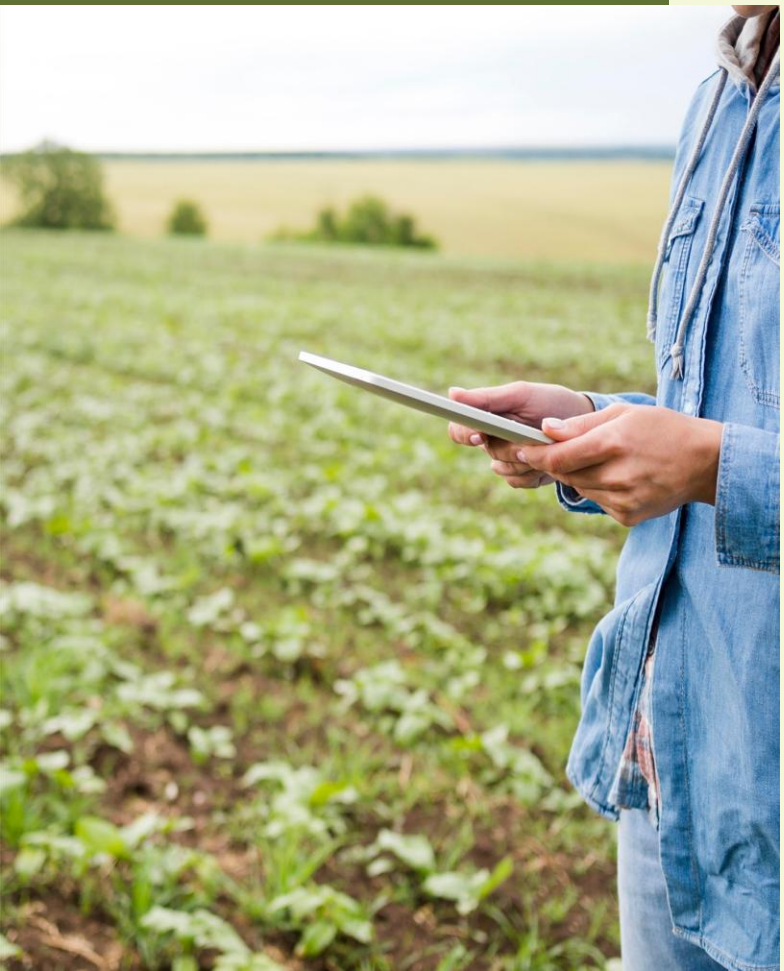
The AGS Contribution

“Our Programme seeks to transform organic waste from a management challenge into a strategic agricultural asset."

- AGS Energy technologies provide a practical route for converting organic waste streams into renewable energy and biochar.
- These outputs can support wider objectives relating to resource efficiency, nutrient recovery, environmental protection and long-term farm resilience.
- The Programme is not solely about innovative technology.
- It is about helping agriculture unlock greater value from existing resources while supporting sustainable farming and rural economic resilience.



Engagement Opportunities

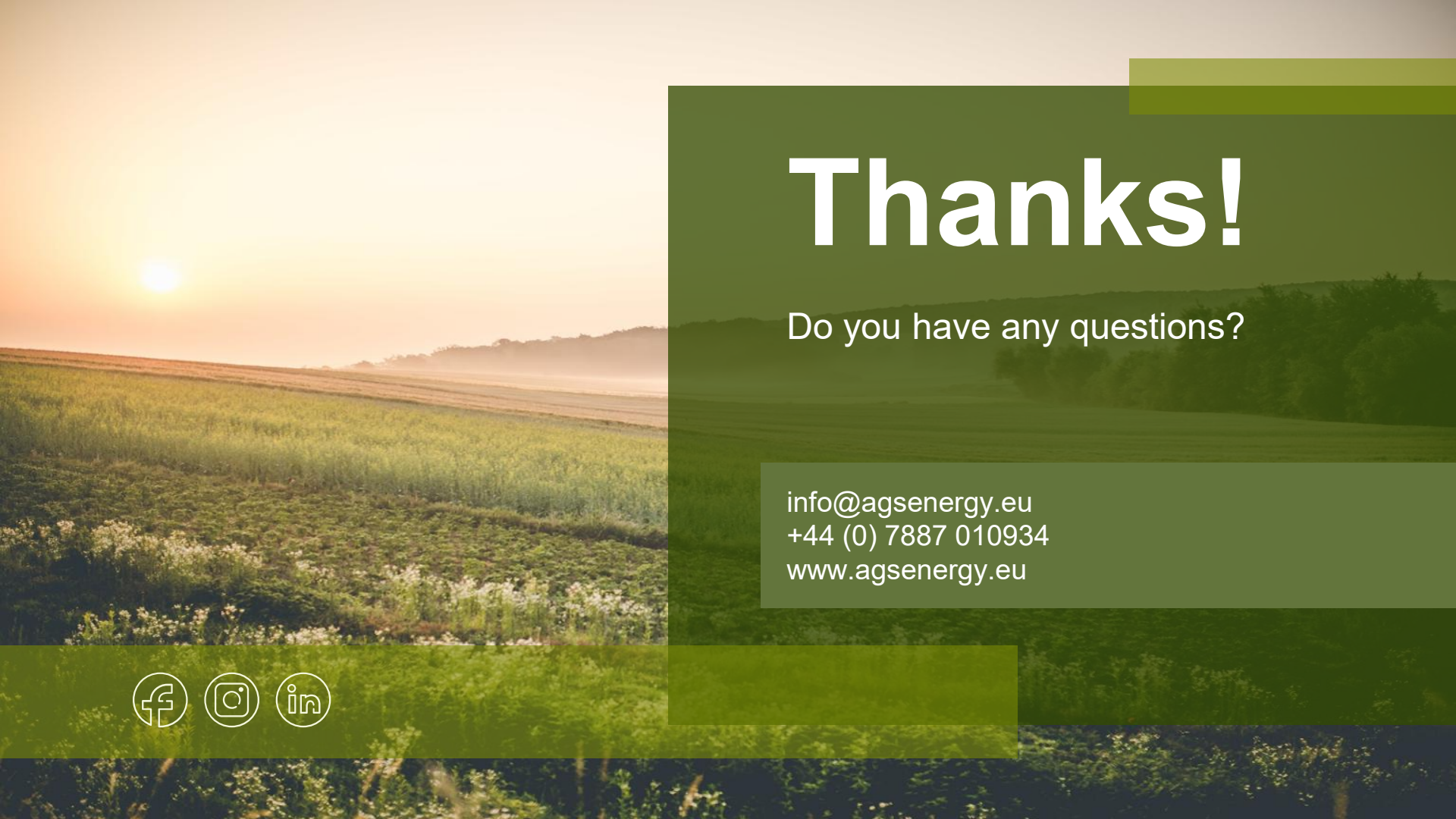


The AGS Farm Nutrient Resilience Programme™ is actively seeking demonstration farms, research partners and strategic stakeholders such as:

- Poultry producers
- Livestock farms
- Agricultural businesses
- Universities and researchers
- Water companies
- Catchment partnerships
- Government and policy stakeholders
- Demonstration project partners

to help shape the future of farm nutrient resilience.

Together we can help build a more resilient, resource-efficient and sustainable future for UK agriculture.
For further information or to discuss potential collaboration opportunities, please contact AGS Energy.



Thanks!

Do you have any questions?

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