Prosiectslyriproject

Developing an innovative, economically viable and environmentally friendly nutrient management process

This new project will innovatively reduce farm waste and help safeguard the environment and address the agricultural industry's impact on the environment by developing a dewatering and purification system to manage slurry on farms. With the intensification of the dairy industry, slurry management is becoming an increasing issue for farmers and the environment.

Driving the project are Coleg Sir Gâr's Gelli Aur agricultural campus in Carmarthenshire and Power & Water, a Swansea based company specialising in electrochemical-based water treatments.

This Project has received funding through the Welsh Government's Rural Communities Rural Development Programme 2014-2020, which is funded by the European Agricultural Fund for rural Development and the Welsh Government. The project will apply innovative and proven concept technology to reduce air and water pollution to reduce the overall volume of slurry by up to 80%. A de-watering and purification system is used to filter slurry, transforming the water to a suitable quality for recycling or discharging to a clean watercourse. The system will also utilise nutrients from the slurry to produce good quality fertiliser.

We aim to reduce significantly the risk of air and water pollution at the same time as maximising the recycling nutrient value. This development process will considerably reduce storage of slurry on farms as well as handling costs.

Efficiently extracting nutrients from manures could save on the cost of commercial fertilisers and reduce serious environmental impact.

The project aims to design, develop and validate economically viable systems that will be made available commercially and used on farms.

Problem

- Agricultural waste has high nutrient value and polluting potential in the water cycle
- Larger herd sizes and intensive farming increases storage needs and spreading issues
- Increasing rainfall (climate change) requires tighter control of waste slurries and wastewater management on farms

Potential Solution

- Apply innovative and proven concept technology
- De-water slurry
- Reduce the risk of pollution
- Maximise the recycling nutrient value
- Reduce storage and handling cost

For more information go to www.slurryprojectwales.co.uk
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