



Optimising Low Energy Extraction of Kelp for Soil and Livestock Nutrition

This Innovate UK support project aims to optimise the low-energy processing of cultivated kelp, unlocking a sustainable method of kelp extraction across the UK for the production of biostimulants and animal feed supplements.

Cultivated kelp is a nutrient-dense resource that benefits soil and animal health and resilience to stress. However, existing agri-seaweed products use seaweed sourced from wild harvest. With increased demand for agri-seaweed products, and licensing and capacity restrictions on wild harvesting biomass across Europe, the industry needs new sustainable ways to meet increase demands for seaweed processing.

The Low Energy Kelp project, led by Algapelago and supported by Rothamsted Research and the UK Agri-Tech Centre, will develop a novel low-energy, replicable extraction process of seaweed that can consistently produce high quality agricultural products. Through field trials, it aims to expand the supply of kelp to UK producers, driving healthier soil and livestock systems and improving environmental sustainability by reducing reliance on chemical inputs.

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