

carbogenics



Company Overview

Carbogenics is a 2016 University of Edinburgh spinout focused on developing advanced bio-carbon products that unlock value from hard-to-recycle organic waste turning environmental liabilities into climate-positive assets. Its flagship product, CreChar®, is a patented, carbon-rich biochar engineered to improve the performance of anaerobic digestion (AD) plants, enhance biogas production and support carbon sequestration.

Key Challenges Addressed

Carbogenics addresses environmental and industrial challenges by transforming hard-to-recycle organic waste into high-value bio-carbon products. Many AD plants face low efficiency and unstable biogas yields, which its technology helps to stabilise by enhancing microbial activity and process resilience. The company also tackles the problem of organic waste mismanagement, diverting materials that would otherwise be landfilled or incinerated and converting them into carbon-rich products that support both energy production and long-term carbon sequestration. Through these innovations, Carbogenics simultaneously enhances renewable energy generation, reduces environmental pollution, and supports global net-zero ambitions.

Role of Roslin Innovation Centre

Carbogenics' headquarters at Roslin Innovation Centre serves as both its corporate campus and the hub for integrated research and production. Previously, the company operated across three separate sites in Edinburgh and Fife, fragmenting research, production, and executive functions. Relocating to the RIC Agri Field Station has enabled Carbogenics to consolidate all operations into a single site, fostering closer collaboration between R&D, production, and management teams.



The Agri Field Station provides climate-controlled laboratories, office space, and direct access to barns and farmland, allowing Carbogenics to test products, like its flagship biochar product, in real-world agritech settings. This consolidation has supported Carbogenics' evolution from a small Edinburgh-based start-up into an established bio-carbon player, with its UK operations centralised at Roslin Innovation Centre and a new presence emerging in New Mexico, USA. By situating its research, production, and executive leadership under one roof, Carbogenics benefits from seamless collaboration and integration into a research and agritech-focused ecosystem, strengthening its position as a successful university spin-out transitioning into a scale-up phase.