



SeaWarm



Company Overview

SeaWarm Limited, incorporated in August 2024, is a University of Edinburgh spin-out developing renewable heating solutions for coastal and rural communities. Based at Roslin Innovation Centre's Agri Field Station, the company was founded by Professor Christopher McDermott, Dr Gus Fraser-Harris and Cameron Muir. The founding team has developed a cost-effective heat exchanger that extracts energy from natural water sources - such as rivers, lochs and seawater - and when paired with a heat pump delivers an efficient and alternative heating solution where traditional systems are often impractical.

Key Challenges Addressed

Heating accounts for over 40% of the UK's energy use, and many rural and coastal communities rely on expensive, high-carbon fuels such as oil, LPG, or electricity because they are off the gas grid. SeaWarm addresses this challenge by harnessing heat from natural water sources to provide a low-carbon heating alternative - its modular, water-source heat exchange pods are compact and easy to install, reducing both CO₂ emissions and energy costs while helping to tackle fuel poverty and support net-zero goals in rural and coastal areas. Its renewable heat systems have demonstrated significant CO₂ emission reductions and cost savings over multiple years in commercial settings such as marinas, public sector buildings, and horticulture sites.



Role of Roslin Innovation Centre

As one of the first tenants to occupy the Roslin innovation Centre Agri Field Station in 2024, SeaWarm has benefited from essential laboratory, design and outdoor workplaces, alongside shared technical infrastructure, meeting facilities, connectivity, and administrative support.

Operating from the AgriField Station has placed SeaWarm at the heart of a collaborative innovation ecosystem, directly enabling partnerships between research institutions, companies, and public organisations. Ongoing applied research support from the University of Edinburgh combined with guidance on commercialisation, IP strategy and business structuring strengthened the company's operational foundations. In parallel, Roslin Innovation Centre has facilitated introductions that have delivered vital funding, mentorship and investor access, accelerating SeaWarm's route to market.