

Isle of Eigg

Aim: *Become a self-sufficient island powered by renewables*



Stakeholders involved in the project

In 2004, the islanders began taking steps to transition to a self-sufficient island powered by renewables. Driven by strong citizen engagement, Eigg Electric was created as a community-owned, managed and maintained company. Multiple partners take part in the project including contractor companies, energy companies, and funding agencies.

Financial streams for financing the project

The transition on the Isle of Eigg has been mainly financed by the islanders with the support of multiple funding agencies, energy companies, and the EU. The islanders also economically benefit from consuming the energy produced on the island.



Technologies used in the project

The combination of hydroelectric generators, small wind generators and solar electric panels, and storage batteries sited at different locations around the island made the transition to renewable energy possible. The output of all the renewable energy generators is brought together, controlled and distributed to all households and businesses on the island via an island-wide high voltage grid.

Project achievements

More than 90% of the island's electricity is locally-produced by three hydroelectric plants, four wind turbines, and solar PVs. The island also has storage capacity through batteries which balance supply and demand and two back-up diesel generators. This has allowed the island's 96 residents to achieve 24-hour electrification and self-sufficiency.



To learn more:

<https://isleofeigg.org/eigg-electric/>

<https://smart-beejs.eu/>