

Bainbridge Hydro

Bainbridge community hydro-electric generation scheme

The Bainbridge Hydro-electric scheme is a community project that generates clean electricity using the natural fall of the water in the River Bain through a 45kW Archimedes Screw.

Profits from the plant will be used to help conserve the natural environment of the river. CO2Sense awarded the project a £50,000 grant towards purchasing the Archimedes Screw.



The Archimedes Screw will produce 185,000 kWh of electricity per year - enough electricity to power around 45 homes. This will save 100 tonnes of carbon dioxide each year.

Bill Truin, from River Bain Hydro Ltd, said "Without help from CO2Sense, we would not have been able to bring this project to life. Generating clean electricity and protecting our natural habitat is so important, and this project will help our community to do both".

Renewable Energy

- Community Hydro Electric Project
- Received £50,000 grant from CO2Sense to purchase Archimedes Screw
- Plant will produce enough electricity to power 45 homes per year
- Will save 100 tonnes of CO₂ per year
- Will produce around £35,000 income per year for the investors and the local community.
- Profits will be put back into local wildlife conservation project

“Without help from CO2Sense, we would not have been able to bring this project to life. Generating clean electricity and protecting our natural habitat is so important, and this project will help our community to do both. //”

Bill Truin - FOUNDING MEMBER - RIVER BAIN HYDRO LTD

The clean electricity produced by the project will be sold to the National Grid, bringing around £35,000 income per year.

The profits will be split between the funders, shareholders and the Raydale Project. This is a community project set up to conserve the natural environment of the River Bain.

“ This project is driven by the local community to help the local area. The project has brought together several key local, regional and national bodies as well as individuals from the local community, to create a clean energy generator that will ultimately help conserve the local wildlife through the Raydale Project. ”

Victoria Maynard - CONSULTANT - CO2SENSE



The project aims to preserve the wetland habitat and improve the water quality throughout the entire river catchment and surrounding areas.

The Raydale Project also works with landowners to improve knowledge and understanding of how sensitive management of the uplands can help mitigate the effects of climate change on the entire river.

The hydro electricity generation project fits in well with the Raydale Project, as the Archimedes Screw is a fish friendly device, and so has no adverse effects on the biodiversity of the river.

River Bain Hydro also has been working with Water Power Enterprises (H2oPE) to deliver the scheme. H2oPE specialise in the development of community owned hydro electric schemes.

The River Bain is the shortest river in the country, and shows that even on a small scale, renewable electricity generation can produce significant results and benefits for the local community.

Victoria Maynard, Consultant at CO2Sense, said, “This project is driven by the local community to help the local area. The project has brought together several key local, regional and national bodies, as well as individuals from the local community, to create a clean energy generator that will ultimately help conserve the local wildlife through the Raydale Project”.

CO2Sense was established by Yorkshire Forward to help businesses in the region to prosper in the low carbon economy. We provide expertise and funding to help environmental companies to grow. We work with partners to help all organisations to fund and develop initiatives that reduce their carbon emissions.

co₂sense

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