CASE STUDY
EDERLINE, LOCH AWE, ARGYLL, SCOTLAND UK

Dam and Powerhouse

KEY STATISTICS

Commisioning date: January 2014
Location: Loch Awe
Turbine: Twin Jet Pelton
Intake type: Alpine
Net head: 214.4m

Catchment area: 8.1km²
Maximum turbine flow: 1000 l/s
Maximum output: 1900kW
Pipeline length: 2.5km

The 1.9MW project on the shores of Loch Awe, near the village of Ford, Argyll, is a joint venture "JV" between Gilkes Energy and the landowners, the Wilson family.

Planning permission and SEPA license were received in early 2011 and construction started in earnest in May 2012. The project includes a dam and storage of water which ensures the project is generating at times of peak demand. The project is the largest project developed by Gilkes Energy to date and was delivered on time and budget despite some delays due to FiT policy uncertainty.

This was an ambitious project that is larger and more complex than the average project primarily due to the presence of the dam, multiple intakes and long grid connection.The project had to be structured to satisfy the demands of a number of investors and a debt provider. However, after almost five years of work we now have a commercial-scale project which has contributed to the local economy and employment. The project not only helps secure the financial viability of the farm for the next generation but contributes, in a modest way, to the fight against climate change by generating clean, renewable energy for the next 50-60 years.

The photograph above shows the project's powerhouse which houses the turbine and generator. It is a timber-clad building designed to fit in with the local architecture and landscape.

CONTACT
Email: hydro@gilkes.com Tel: 01539 720028 Fax: 01539 732110
www.gilkes.com
Gilbert Gilkes & Gordon Ltd, Canal Head North, Kendal, Cumbria LA9 7BZ. Registration No.173768 London