



Small hydro from idea to operation

Discovery

Evaluation

Feasibility

Planning & approvals

Design

Construction

Commissioning

Operation

## Evaluation

So you've found a site with hydro potential. What next? Before you spend serious money on environmental surveys or applications, a thorough assessment of the hydropower potential is required. When babyHydro conducts a Hydropower Evaluation, also known as a pre-feasibility study, we follow these steps:

- A visit to the prospective site by a babyHydro Assessor
- Inspection of the primary areas of interest on the river course lasting around 2 hours, accompanied by the landowner or their agent
- Identification of the preferable location of the physical elements of the scheme (extraction point, forebay, course of penstock, and site of turbine) plus assessment of the practical implications (e.g. site access).

Subsequent to the visit you will receive a Hydropower Evaluation Report, including the following information:

- Flow in the watercourse and the potential capacity of the scheme
- Recommended scheme layouts and choice of equipment
- Off-grid or offsetting potential for on-site or community consumption
- Estimate of energy generation, likely capital and operating costs, and a forecast of revenues over the life of the project
- Potential environmental pitfalls and mitigation options
- Foreseeable Local Authority Planning issues and any other risks

### Linnhouse Hydropower Evaluation

Linnhouse Estate near Livingstone was historically supplied with electricity from its own hydro scheme, redundant since the middle of the last century. In February 2010 babyHydro conducted an Evaluation at Linnhouse, and concluded that a micro-hydro project would be financially viable, with an installed capacity up to 48kW. It should be possible to repair the existing weir and lade, bringing this historic hydro scheme back to life.



### Pricing

The site visit and associated Hydropower Evaluation Report have a fixed fee of £445 plus a mileage charge of £1.40/mile (plus VAT).

Where the scope of the opportunity requires more than two hours to be spent on site, or there are multiple sites or stretches of river, we would be happy to quote a bespoke price depending on scale and complexity.

To arrange for a Hydropower Evaluation of your chosen site please call Gordon Black on 01786 820018 or e-mail [gordonblack@babyhydro.co.uk](mailto:gordonblack@babyhydro.co.uk)