

Hydro Power Plant Allt Fionn, UK



Country
UK

Year of Mandate
2019

Year of Commissioning
2012

Key Technical Data
Total capacity: 2.0 MW
Turbine type: 2 x Pelton turbines

Technical Due Diligence for a 2 MW Run-off River Hydro Power Plant

The objectives of the assignment were:

- to determine and quantify the technical risks and to develop measures for limitation and mitigation of those risks and
- to collect and analyze the information necessary to assess the technical performance of the project and to sustain over its economic life certain performance levels

The scope of work covered the following aspects:

- On-site inspection
- Design review of the hydro turbine type
- Evaluation of key components
- Review of site conditions
- Review of permits
- Review of grid connection and grid connection contracts
- Review of energy yield assessment and verification of available inflow rate
- Review of the remuneration schemes (FiT and PPA)
- Evaluation of project contractors
- Review of project contracts
- Review of energy yield assessments
- Performance analysis based on historical influx data
- Operational costs and expected lifetime