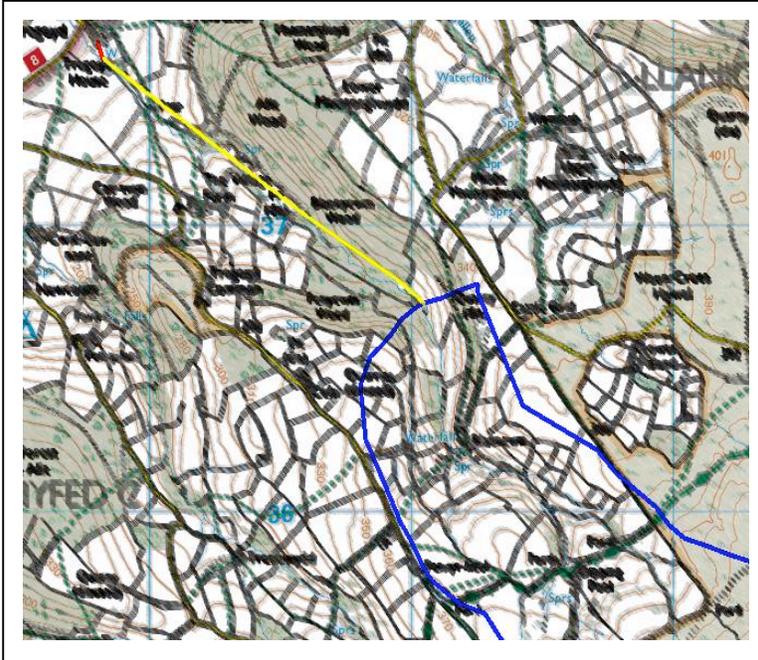


Scheme xxxxxxxx

Site map with pipe route marked in yellow, section of catchment area marked in blue and export cable to property marked in red.



Ordnance Survey © Crown copyright [2002] All rights reserved. Licence number 100051280.

Catchment Analysis

Area 1.54 km²
Maximum altitude 685 m

Intake Location

OS grid reference SO 1234 5678
Terrain Open fields
Access Good via existing track and through wooded area

Pipeline

Length 1,500 m
Pipe type and size 280 mm diameter high density polyethylene pipe
Terrain Wooded area and open fields
Access Good via existing track

Abstraction Regime

Q90 flow 5 l/s
Abstraction regime 100% of flow above Q90, up to peak equivalent to Qmean

Turbine House Location

OS grid reference SO 9876 5432

Power Transmission

Description Export to property
Phase Assumed split phase
Distance to turbine 60 m

Provisional System Specification

Height between intake and turbine - m 104
Water Flow - Ltrs per second 35.3
System Efficiency - % 70
Estimated Peak Power - kW 23.5
Estimated Average Power - kW 10.3
Estimated Annual Power Output - kWh 90,292
Annual Tons of carbon saved 45

Provisional Financial Figures

Financial Calculations with VAT at 5%
Export Tariff per kWh £x.xxx
Feed in Tariff (FITs) per kWh £x.xxx
Project cost between £xxxxxx and £yyyyyy
20 year Income between £aaaaaa and £bbbbbb
Profit over 20 years between £mmmmmm and £nnnnnn
Payback years from 6.6 to 8.4

Financial Notes

We have completed the Viability Reports on the basis that each scheme will be eligible for Feed-in Tariffs. These tariffs guarantee, and index-link, the price for generating and exporting electricity for 20 years. Consequently the schemes have the potential to provide you with a long-term, index-linked income for over 20 years. For domestic properties that are used as a principle residence income under the Feed-in Tariffs can be exempt from income tax (provided that the larger proportion of the electricity generated is for domestic use). The financial benefit of using the electricity generated directly in the home and consequently reducing your electricity bills is not included in this analysis.

These Reports show VAT at the rate that from the information we have reflects you likely position. If we are unsure we calculate at the domestic rate of 5%

The final cost and return on your investment will depend on your VAT position

- 1 – You can reclaim all the VAT through a VAT registered business
- 2 – You are classified as a domestic customer = VAT 5%

3 – You are classified as a non-VAT registered Commercial Customer = VAT 20%

General Notes

Both reports represent the schemes that will generate the most renewable hydro energy possible with the intake, pipeline and turbine located on your identified land. This is subject to detailed clarification of exact property boundaries, for example if property boundaries run along the centre lines of watercourses then any full width weirs may be partly within neighbouring land.

Next steps

The next step would be to complete the more detailed Feasibility Survey on each scheme which involves a site visit and further research including:

- A more detailed measurement of the site and the expected seasonal flow
- An evaluation of the design options and the annual power output
- A detailed breakdown of the construction costs and system design

TGV is able to provide a complete service from planning to commissioning and on-going maintenance. In addition to schemes that are financed by the client, TGV is also able to fund schemes in partnership with local community groups and investors so that the capital costs can be shared but the scheme reverts completely to the landowner after 20 years. For these jointly owned schemes TGV is able to offer loan finance of up to 65% of the capital cost (arranged through Finance Wales) where the loan is secured on the scheme income rather than a mortgage over land or property. We would be happy to discuss funding options with you.