Case Study - Bagtor House

Domestic micro-hydro installation
55m head
Case Study:

Site: Bagtor House
Turbine: Single Jet Pelton
Power: 5.5kW
Head: 55m

Western Renewable Energy (WRE) carried out work from feasibility forward to commissioning

Site specific issues include:
• High head – 55m
• Small flow
• Pipe route through stony woodland
• System a rebuild of an old system
As the catchment was small physical measurement was carried out in addition to computer analysis. Existing derelict powerhouse and intake tank to be repaired and reused.
New pipeline installed following old route where possible, using fusion welded plastic pipe.
Pelton turbine
WRE coanda screen