

Sustainable Living Technologies

7531 Deer Park Road, Castlegar, British Columbia, V1N 4V8
250-354-3428 sustain_ability@telus.net

Site Assessment Service Micro Hydro

Purpose:

- To determine the feasibility and potential of a micro hydro power system at a given site.

The Process:

1. Through a physical visit to your geographic site, we obtain the following measurements:
 - The 'Head,' or vertical drop, from an intake point to the turbine site. Determination of the best intake and turbine sites may be required.
 - The penstock length, or distance of pipe required from the intake to the turbine
 - The water flow rate
 - The wire distance from the turbine to the power house.
2. We investigate potential power license restrictions through contact with local authorities and an examination of upstream and downstream interests.
3. We use a computer program to determine the potential power output, the optimum penstock pipe size, and the appropriate wire size.
4. We identify any physical requirements for installation (e.g. accessibility, dams, penstock layout, turbine housing).

The Results:

- Documented potential power production
- Recommended wire sizes
- Known power license restrictions (if any)
- An assessment of any physical challenges involved in installation

Time Required: 1-2 hours on site, 2-3 hours report preparation

Cost: \$200