

## Energy Efficiency: Microhydro Technologies

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We have attached a couple of fairly comprehensive reports on microhydro systems. The first is a 2004 publication from Natural Resources Canada called "Micro-Hydro Systems: A Buyer's Guide." It has a lot of good discussion on economics, choosing the right system, citing, and O&M (**Buyer's Guide**).

We also have attached a BC Hydro publication called "Handbook for Developing Micro Hydro in British Columbia." Obviously a lot of the regulatory details will be different for you, but the publication does offer some valuable insights from a utility's prospective, including interconnection requirements, more O&M information, and long-term costs (**BC Hydro\_small\_hydro\_handbook**).

Another useful tool is a good micro-hydro calculator, such as that provided by Energy Alternatives Limited. The calculator allows you to enter all relevant factors, such as head, pipe diameter and material, and so forth. It then comes up with energy projections. You can find the power calculator on the right-hand side of [this page](#). If you would like to conduct more sophisticated modeling, we recommend RETScreen, a powerful software suite offered by the Canadian government that calculates energy production, life-cycle costs and greenhouse gas emission reductions for various types of renewable technologies, including small hydro, available [here](#).

In addition, there are a few other resources you might find helpful:

- [Microhydro](#) and [Micro-Hydro Design Manual](#) are a pair of books available. While neither seems to discuss a lot of economic issues, they do have in-depth discussion of system optimization, proper citing, common pitfalls and so forth.
- The EERE has a small, but useful micro hydro website [here](#). The state of Oregon has another [small website](#) with a lot of links to additional resources.
- Finally, for more information, I'll refer you to the [International Small Hydro Atlas website](#). The website includes over 200 publications, a small but useful contacts database, links to tools and other resources, economic discussions, and more.

## Additional Micro Hydro Websites

Micro Hydro suppliers in Georgia

<http://energy.sourceguides.com/businesses/byGeo/US/byP/hydro/mHG/byS/GA/GA.shtml>

Finding a Micro Hydro Contractor

[http://energybible.com/water\\_energy/finding\\_contractor.html](http://energybible.com/water_energy/finding_contractor.html)

Micro Hydro suppliers in Georgia

<http://www.gasolar.us/GAsuppliers.html>

Micro Hydro Manufacturer

<http://www.hydro-turbines.com/>