

Handout... The "Power" of Water... Getting Your Stream to the Grid

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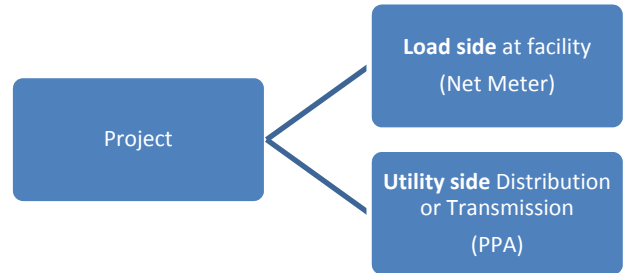
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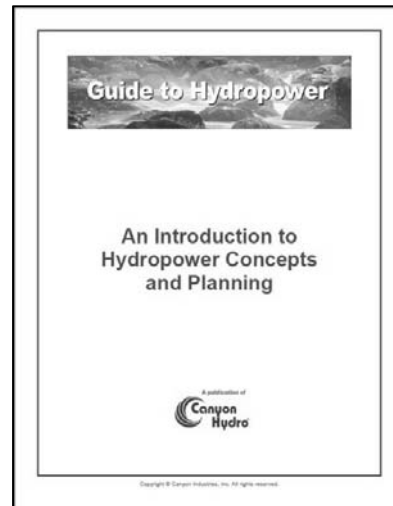
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HEAD is water pressure created by difference in elevation. Typically expressed as feet or meters or PSI.

100ft head = 43.3 PSI

FLOW is water quantity and is measured in CFS (cubic feet per second).



<http://www.canyonhydro.com/guide/>

$$\text{Kilowatts (kW)} = \frac{\text{HEAD (ft)} * \text{FLOW (cfs)}}{11.81}$$

Energy is power in kW over time...

2.5 kW capacity turbine running for 1 hour generates 2.5 kWh

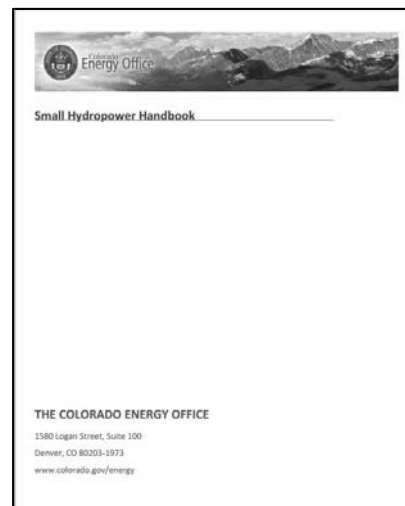
Connecting to the grid...

- 1) Interconnection
- 2) Contract

Websites:

Hydro info, links, analysis...

www.smallhydro.co



Incentives, laws...

www.dsireusa.org

<http://www.smallhydro.co/#!resources/c3nu>