

## Micro-hydro Capabilities

*Gardner Energy has been designing and installing micro-hydro systems for the past 18 years and has installed 20 micro hydro systems in the intermountain west. Micro hydro power, just like solar power, can be designed for grid-tie with net metering, off-grid and grid-tie with battery backup. Micro hydro systems are typically designed to meet the customer's needs even though at times the potential exists to generate far more power than is needed. Because hydropower operates 24 hours a day a small system can provide enough energy for residential or small commercial customers.*

### **Technology Brief:**

#### Solar Water Pumping

Ken Gardner with Gardner Energy has taught an in person solar water pumping class for the past sixteen years for Solar Energy International. Solar water pumps are used all over the world for drip irrigation, domestic water wells, cattle watering. They represent the simplest form of solar power use. Most remote systems simply pump water when the sun is shining.

Included are examples of solar water pump installations for drip irrigation.

