

## Solar System Power Generation

We installed the first PV Solar Electrical Generation System at my farm home. We are very pleased with it. We use to waste about half of the electricity we purchased. We decided to see if we could reduce this waste. We made the following changes:

We replaced the 275 watt yard light with a small fluorescent.

We eliminated the two electric water heaters and installed a gas instantaneous and an electric instantaneous unit. They take no power unless you turn on a faucet.

We changed to the efficient light bulbs.

We purchased a watt meter and checked to see what our electrical items used. We had a clock that took 4 watts. We had a printer with a warm out board transformer that took 17 watts. We replaced it. We chose to replace those and other wasteful items.

We started turning off the computer at night.

We feel we live normally. We use the electric dryer, use an electric range and usually are watching two TV sets.

A 3 KW system will generate about 27 KW hours a sunny day. While the days of winter are shorter the efficiency goes up in cold weather. With an extended period of solid overcast and rain we go backwards but usually catch up before the end of the month.

We use about 12 KW hours on an average day.

We generate more electricity then we use.

A PV solar tracking system pays for itself. While that is important purchasers usually do it because it is *the right thing to do*.

The 3 KW system should generate about 6000 KW hours a year. It becomes a much better value if you can get into a power company program that pays you more then they charge you.

We also offer a 3.36 KW system that should increase that by about 10 %.

Frank Weeks