

RENEWABLE ENERGY TECHNOLOGIES

SOLAR (PV) SYSTEMS

PV allows you to produce electricity, without noise or air pollution, from a clean, renewable resource. A PV system never runs out of fuel, and it won't increase U.S. oil imports.

- PV system components are manufactured right here in Washington state.
- Optional batteries can be added to a PV system to provide energy outage or backup power in case of a power interruption or outage.

Solar photovoltaic systems are reliable and pollution-free. They use the most renewable source of energy - sunlight - converting it directly into electricity that can be used to generate a large percentage of power for people in most parts of the world - including right here in Washington.



The basic building block of PV technology is the solar "cell." Multiple PV cells are connected to form a PV "module," which range in power output from about 10 watts to 300 watts. PV systems can stand-alone (off-grid) or be tied to the grid. Systems tied to the grid have some unique advantages: When power output is diminished due to a lack of sunlight (such as in the winter), additional electricity needed by the home is provided by the utility. In addition, net metering allows PV systems owners to get paid by their local utility for producing electricity.

When designing a PV system, it is important to ensure that your site is well-suited for optimum installation. South-facing sites are ideal in the United States, as well as ones that are free of obstructions for most of the day such as trees, roof gables, chimneys and other buildings. Your PV system installer will be able to help you determine the best spot for installation on your property.

PV works best in an energy-efficient building. Ensuring your home is well-insulated and sealed, and that your mechanical systems and lighting are energy efficient, will reduce your home's overall electricity use and allow you to maximize your PV system's energy production.

AVAILABLE UTILITY, STATE OR FEDERAL TAX INCENTIVES

WASHINGTON STATE TAX INCENTIVES

Sales tax reduction credit: pay NO sales tax on systems that generate less than 10 kw of power; Renewable Energy Advantage Program (*Eligible customers may be paid from 12¢ to 54¢ per economic development kilowatt-hour (kWh).*)

PUGET SOUND ENERGY INCENTIVES

Net Metering program: customers connected to the grid who generate more electricity than their homes need at a given time are issued credits on their utility account for power that PSE will provide to them on cloudy days.

US FEDERAL TAX CREDITS

Tax rebate of 30% of cost of system; system must be SRCC certified



665 Woodland Square Loop SE, Suite 201 | Lacey WA 98503
 360.528.2112 direct | 360.754.6320 main | 360.407.3980 fax
 info@thurstonenergy.org | www.thurstonenergy.org

