

DID YOU KNOW...

- * The typical U.S. household spends **\$1,900** a year in utilities.
- * **43%** of household utility costs are for heating and cooling.
- * **12%** of household utility costs are for water heating.
- * **11%** of household utility costs are for lighting.
- * Installation of a solar water heater can reduce heating bills by **50%-80%**.
- * Small wind turbines can reduce household electric bills by **50%-90%**.
- * Rocky Mountain Power offers a maximum incentive of **\$6,000** in rebates for households utilizing solar photovoltaic systems.
- * Questar Gas offers customers a **\$750** rebate for the purchase and installation of solar water heating systems.
- * Salt Lake City Building Services is working to submit a **'stretch'** energy code to the Utah Uniform Building Code Commission to provide greater certainty for usage of renewable energy systems in households.

GETTING STARTED!

Provided below is the contact information to the applicable Salt Lake City Departments and local utility companies to help you get started in using renewable energy systems.



SALT LAKE CITY CORP.

City & County Building
451 South State Street
Salt Lake City, Utah 84114

Building Services:

Room 215

<http://www.slccgov.com/ced/buildzone/>

Phone #: (801)-535-6000

Email: buildzone@slccgov.com

Division of Sustainability & Environment:

Room 145

<http://www.slccgov.com/slccgreen/>

<http://www.slccgov.com/solar>

Phone #: (801)-535-6470

Email: slccgreen@slccgov.com

ADDITIONAL RESOURCES

Rocky Mountain Power Efficiency Programs & Incentives

<http://www.rockymountainpower.net/env/epi.html>

Email: wattsmart@rockymountainpower.net

Questar Gas "Thermwise" Energy Program

<http://www.thermwise.com/utindex.html>

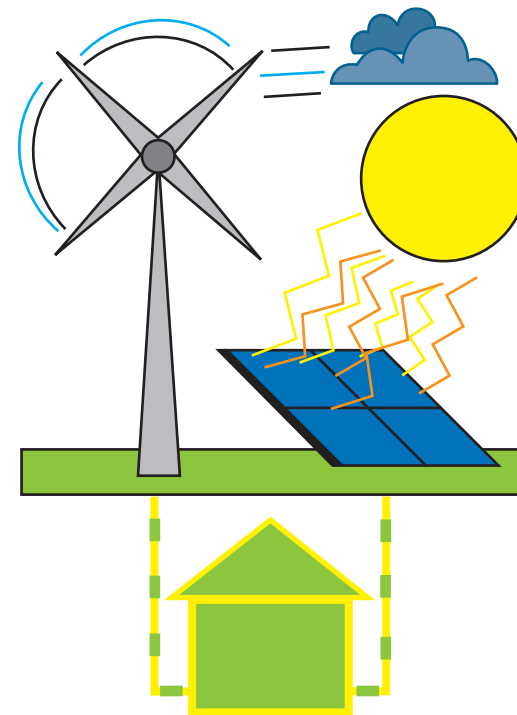
Phone #: 1-800-323-5517

Email: ThermWise.Administrator@

USING RENEWABLE ENERGY SYSTEMS

Building homes "right" from the start.

-Mayor Ralph Becker



SALT LAKE CITY CORPORATION

www.slccgov.com/solar

PURPOSE OF RENEWABLE ENERGY SYSTEMS

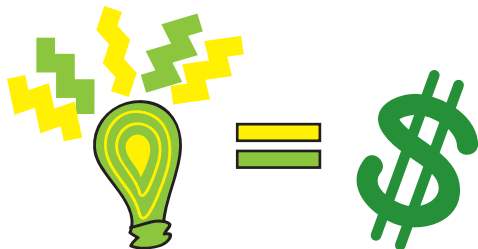
- ✱ Promote the usage of wind, solar, and other renewable energy systems.



- ✱ Enable Salt Lake City to reduce the use of fossil fuels to meet the goals of greenhouse gas emission reduction established by the U.S. Conference of Mayors Climate Protection Agreement, of which the city is a signatory.



- ✱ Provide opportunities for homeowners to save fuel costs.



TYPES & DEFINITIONS OF SYSTEMS

Solar-Ready Residential Dwelling:

A “*solar-ready residential dwelling*” is a home that is equipped with upgraded plumbing, electric, roofing, and other systems to accommodate future installation and use of a solar energy system that provides either a hot-water heating or solar electric power.

Solar Energy System:

A “*solar energy system*” is a system including solar panels and related equipment, pipes, and wiring that converts sunlight to heat or electricity.

Solar Hot-Water System:

A “*solar hot-water system*” is a domestic hot water heating system consisting of solar energy collection equipment (typically roof-mounted panels), heat transfer through a heat exchanger, and hot water storage.

Solar Electric System:

A “*solar electric system*” is a solar photovoltaic system that converts solar energy to electricity and consists of solar energy collection equipment (typically roof-or ground-mounted panels) and an inverter that changes DC to AC current or storage batteries. Such systems usually have a capacity of 2kW to 5kW.

YOU NEED TOO...

- ✱ Calculate your current energy consumption to determine the system which best serves your needs. Visit www.slcgov.com/solar to learn more.
- ✱ Contact utility companies about connecting systems to the power grid.
- ✱ Acquire the necessary building permits from Building Services for installing renewable energy systems (*see contacts on back page*).
- For Solar Hot-Water Systems:**
 - ✱ Install two labeled insulated pipes and a suitable sized conduit that run from the proposed water heater area through the roof and are capped.
 - ✱ Specify in construction plans the interior location of your hot water heater or storage tank.
 - ✱ Provide extra plumbing valves and fittings on any installed hot water heater to accommodate a *solar hot-water system*;
 - ✱ Provide an electrical outlet at the solar hot water tank.
- For Solar Electric Systems:**
 - ✱ Submit a site plan with a suitable location for the solar panels.
 - ✱ Specify in construction plans a minimum area of four square feet (4') suitable for the location of inverters, meters, disconnect, etc.
 - ✱ If locating on the roof, provide a roof with a pitch orientation, and structural support to accommodate the solar panels.
 - ✱ Install the labeled reserved electrical service and wiring for the system.