

Says, “Power Up!”

### What is renewable energy...

**Anaerobic digestion** – series of processes in which microorganisms break down biodegradable material in the absence of oxygen, used for industrial or domestic purposes to manage waste and/or to release energy.

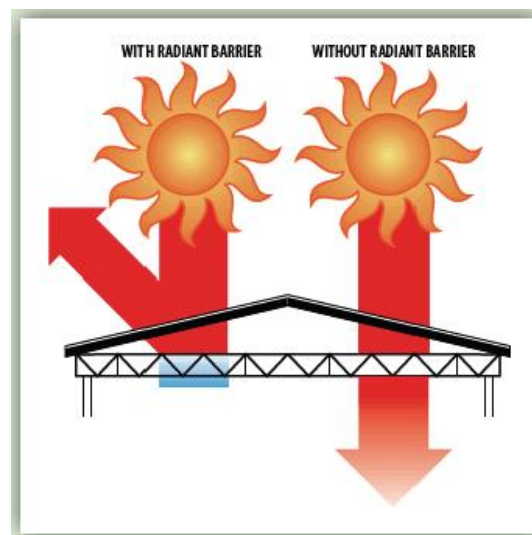
**Hydroelectricity** – electricity generated by hydropower, i.e., the production of electrical power through the use of the gravitational force of falling or flowing water.

**Geothermal** – power extracted from heat stored in the earth.

**Solar** – the generation of electricity from sunlight.

**Tidal/Wave** – form of hydropower that converts the energy of tides into electricity or other useful forms of power/Wave power is distinct from the diurnal flux of tidal power and the steady gyre of ocean currents.

**Wind** – conversion of wind energy into a useful form of energy, such as using wind turbines to make electricity, wind mills for mechanical power, wind pumps for pumping water or drainage, or sails to propel ships.



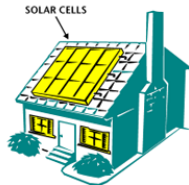
- The sun contains renewable energy!
- You can capture and use its power!
- Blocking its rays can keep you safe and cool!

## Very cool solar-powered stuff:



Solar Toy Car

<http://www.naturalcollection.com/category/gifts/for-kids/solar-powered.htm>



Solar Cells

[http://tonto.eia.doe.gov/kids/energy.cfm?page=solar\\_home-basics](http://tonto.eia.doe.gov/kids/energy.cfm?page=solar_home-basics)



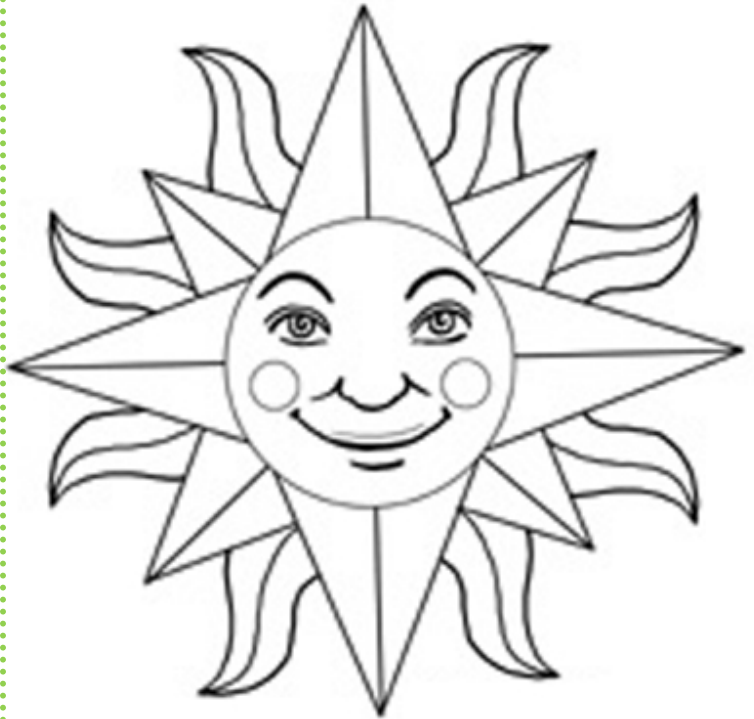
Solar Radio/Flashlight

<http://www.bing.com/shopping/Dynamo-or-Solar-Radio-Flashlight/search?q=solar%20flashlight&p1=%5bCommerceService%20scenario%3d%22sum%22%20docid%3d%22EAE2A1E6DB218BABCD7E%22%20a%3d%22pa%22%5d&wf=Commerce&FORM=ENCA6>



Solar Experiment Kit

<http://discovery.resultspage.com/search?w=physics+solar+workshop&v=discovery>



Personalize your renewable power source!

### What do you know?? You can become an expert! Resources worth checking out...

*Done in the Sun: Solar Projects for Children* by Anne Hillerman.

*Energy from the Sun (Rookie Read-About Science)* by Allan Fowler.

*Green Power Solar & Wind Power* by Peter Lerangis.

*Harnessing Power from the Sun (Energy Revolutino)* by Niki Walker.

*The Kids' Solar Energy Book even grown-ups can understand* by Tilly Spetgang and Malcolm Wells.

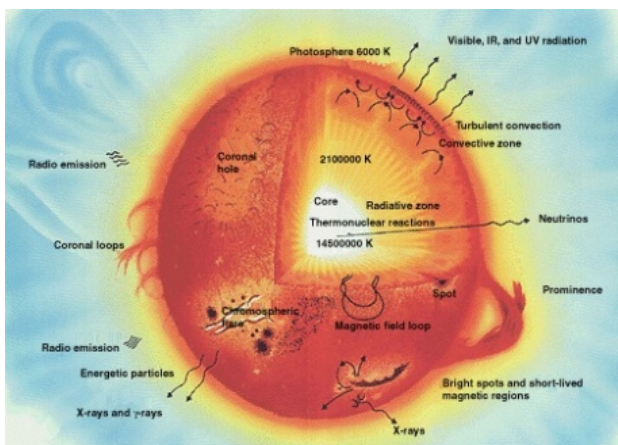
*Potato Clocks and Solar Cars: Renewable and Non-renewable Energy* by Elizabeth Raum.

*Solar Energy Cheap Chart (Cheap Charts)* by School Specialty Publishing

*Solar Energy: Super Cool Science Experiments (Science Explorer)* by Christine Taylor-Butler.

*Solar Energy (Fueling the Future)* by Chris Oxlade.

*Solar Power (Energy for Today)* by Tea Benduhn.



For more info: [www.nationalrenewableenergyassociation.org/main](http://www.nationalrenewableenergyassociation.org/main)