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Heat and Solar Energy

The following article includes pertinent information that may cause you to reconsider what you thought you understood. The most important thing is to study with an open mind and be willing to revise your understanding if necessary.

Solar heating systems incorporate several principles on the conversion of solar energy into solar thermal energy, as well as the physical behavior of heat. The primary principle that people need to know more about include solar home heating, which involves getting solar energy and transforming it into heat. You will better appreciate solar heating systems and solar energy as a whole by knowing how the process works. Here is some more info.

About the Collectors

A solar energy collector gets the radiant energy from the sun to be converted into heat. A solar collector transforms solar energy into heat by taking advantage of the greenhouse effect. The solar energy will go through a layer of glazed glass, and then be absorbed by the material underneath. The solar energy will excite the molecules in the material beneath, leading to heat. The glass glazing will keep the heat from escaping, and will capture the heat effectively. As soon as the heat is captured, people can put the energy into good use.

Basic Heat Principles

Heat is described as a form of energy that is related to the movement of molecules. Once the electromagnetic waves that emanate from the sun hit an object, these will excite the molecules of the object, triggering movement. The movement of the molecules is then referred to as heat. Heat is constantly moving from high to low temperatures until the temperature becomes even. The process is known as heat transfer.

If your Solar Power facts are out-of-date, how will that affect your actions and decisions? Make certain you don't let important Solar Power information slip by you.

If a person puts two objects next to each other, the warmer object will start to cool down as the heat is moved to the cooler object. The cooler object will warm up afterwards. The transfer of heat is triggered by the difference in the temperature of the objects. The rate of heat transfer is proportional to the difference in temperature. The bigger the difference in temperature between the items, the heat movement will be faster.

Heat Movement Assessment

It is important that people know more about the movement of heat to full appreciate solar thermal energy. Passive solar energy applications use a lot of heat movement. The 3 common physical ways that heat moves include convection, conduction and radiation. Conduction is the transfer of heat via a solid material, or from a single material to another where the surfaces are in contact with each other. Heat is conducted quickly via a solid material compared to layers. Convection is the heat transfer by a moving fluid such as water or air. Radiation is the direct transfer of heat through space via electromagnetic waves coming from a warmer object to a cooler object.

Choosing the Application

Knowing the various types of heat transfer will help you choose the ideal application that will ultimately become beneficial for your home or office. Make sure that you also get all the materials needed for your solar heating system. You can stay comfortable even on long cold months by choosing the right type and knowing the devices and positioning that will guarantee you safe and effective results.

About the Author
By Anders Eriksson, feel free to visit his top ranked GVO affiliate site: **GVO**

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