

Solar Energy

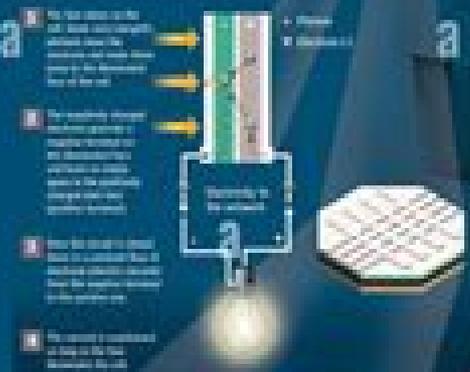
The harnessing of solar energy to produce electricity and heat for everyday use is gaining popularity. Applications of this clean, unlimited form of energy range from charging batteries in telecommunications satellites, to public transportation facilities, all the way to the solar households being built in greater numbers throughout the world.

Photovoltaic Energy

The energy obtained from sunlight through the use of solar cells is photovoltaic energy.

SOLAR CELLS

It is a substance known as a p-n junction semiconductor which allows the conversion of light into electricity. These cells are made of silicon, germanium, selenium, etc.



Investment

One of the major reasons for the popularity of solar energy is its investment value. The solar energy system is a long-term investment. The cost of solar energy is very low compared to other energy sources.

Solar Heating

A special use of sunlight is as a source for heating water as well as for heating spaces. In this case, solar radiation is used to heat a substance, such as the water contained in an insulated storage tank.

180° F (82° C)

The maximum water temperature that can be achieved by solar heating is 180° F (82° C).

THE COLLECTOR

It is the part of the solar heating system that collects the solar radiation and transfers it to the water. It is usually made of a material that has a high absorption coefficient and a low emission coefficient.

Production House

A house that uses solar energy for heating is called a production house. It is a house that is designed to take full advantage of the solar energy available.

Absorption Plate

The absorption plate is the part of the solar collector that absorbs the solar radiation and transfers it to the water. It is usually made of a material that has a high absorption coefficient and a low emission coefficient.

HEAT WATER AND HEATING CIRCUIT



Other Applications

Solar energy can be used for many other applications besides heating water and spaces. It can be used for drying clothes, for cooking, for charging batteries, and for many other uses.

Space

Solar energy can be used for space heating and cooling. It can be used for drying clothes and for many other uses.

Refrigeration

Solar energy can be used for refrigeration. It can be used for cooling spaces and for many other uses.

Electricity

Solar energy can be used for electricity generation. It can be used for charging batteries and for many other uses.

Solar Cells And Their Applications

AW Chickering



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