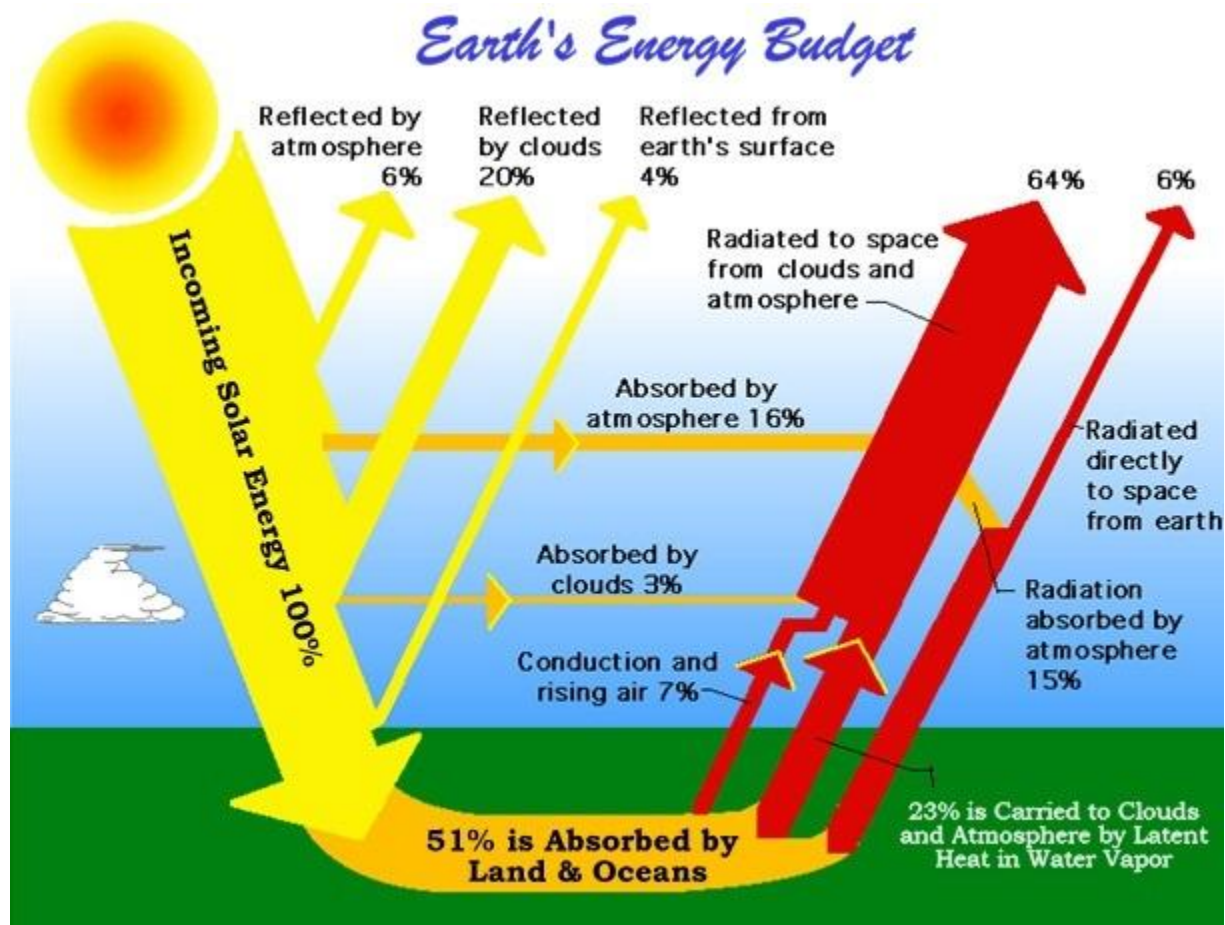


# Types and Facts of Solar Energy

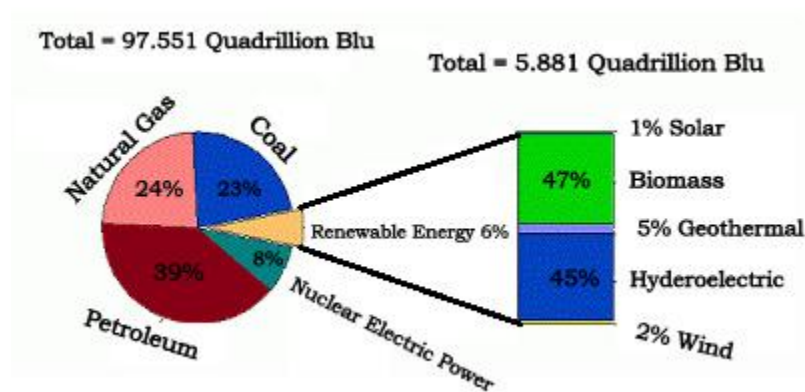
## Solar Energy:

In today's world when one says the term "solar energy" the only image what comes in mind is the big solar panels mounted on top of our house roof. Even though these solar panels are part of solar energy, but there are many more things. The existence of sun in our universe is from the beginning of time, and sun rays has been confined and employed by human beings in one or the another form for millions of years. Owing to the [advantages of the solar energy](#), we can be alive & enjoy a healthy life. Sunlight aids to prolong our lives by helping trees & plants to nurture through the procedure of photo-synthesis, thereby exchanging carbon dioxide into natural compounds. Sunlight also gives vitamin D, which is extremely helpful for our health. There are a number of solar energy facts which may be interesting and a fun task to learn & observe as well. In this article we are about to discuss solar energy facts which may interest kids & adults alike.



## Solar Energy Facts:

- Solar Energy is healthy for the atmosphere than conventional fossil types of energy.
- Solar energy has a number of beneficial usages, like producing electricity in the course of photovoltaic cells, direct water heating for a range of other purposes.
- Solar energy can be transformed directly/indirectly into any other forms of energy.
- Solar energy is the only free & clean source of energy.
- Solar energy does not create pollution or waste and is ecologically suitable.
- The demand for solar energy is more and more and at present we are producing & using solar energy for a number of reasons.
- Solar energy is employed in many devices & for several purposes such as- Electricity, biomass, heating water & even for transportation (solar cars or bikes).
- Solar energy cannot be easily utilized in all fields; it's the most reliable & renewable source of energy.
- Solar energy plants once fixed has approximately no variable expenditures.
- Solar energy is yet a very little portion on world's energy market.
- Solar energy could recover ecological quality that is spoiled by present prevailing fossil petroleum usage.



## More Information about Solar Energy:

Energy efficiency is extremely vital for environmental as well as financial grounds. As a number of eco friendly technologies have been developed like- wind and solar-related devices, which more & more people must employ to create eco-friendly energy. Some scientists consider this as a revolution against energy produced by fossil fuels & world new step towards renewable energy sources. Now let us discuss some of the misconceptions regarding solar energy. Despite of the

proven results many people think that solar panels do not work on cloudy days, but they still generate energy.

Solar energy can be transformed into electricity in 2 ways:

1. Solar Thermal/Electric Power Plants
2. Photovoltaic (PV devices) or “solar cells”

At the present moment this great source of energy- Sun, is only used half of what its potential is. Our solar science is able to transform a huge amount of this solar energy into power which is necessary for our daily necessities. Owing to a number of reasons, still human beings are employing earth resources to generate power and the astonishing point is that these earthly resources are finite. This is extremely harmful for the planet & environment but also foolish to use finite resources rather than infinite resources- solar energy. In fact, you are aware of it or not, all these earth resources- gas, coal, petroleum, & even nuclear power owe all this power from the energy provided by the sun. Million years of nature' efforts & solar energy created oil, coal & other natural resources such as radioactive metals that generate nuclear fusion.

## Types of solar energy:

1. **Solar Thermal Energy** – In this system of energy generation solar thermal collectors are used to collect the heat energy and this collected energy can be utilized to heat water or warm up houses during winters.
2. **Solar Photovoltaic Power** – Photovoltaic power is employed to transform the rays of sun into electricity by making use of solar panels. The energy produced is dependent on the amount of sun rays solar panel is receiving.
3. **Passive Solar Energy** – Passive solar energy is basically the heating of buildings or home with the help of architectural design.

The Sun is not going anywhere nor is it going to run, it's the only free & infinite energy source. So let's open our minds & think about more & more ideas to use this infinite source effectively & optimize the use of other finite earth resources. So plan a new way to bring your own sun home.

Source: <http://www.electronicshub.org/solar-energy-facts/>