



THE SMARTEST ENERGY CHOICE UNDER THE SUN

NON-RENEWABLE ENERGY

Nonrenewable resources are those found inside the earth, and they took millions of years to form. These include the fossil fuels, oil, natural gas, and coal and nuclear energy.



Disadvantages of non-renewable energy

- Time consuming to extract.
- Contribution to climate change.
- Contribution to acid rain.
- Dangerous for humans.
- Not viable for future generations.

RENEWABLE ENERGY

Renewable energy sources are sources of energy that are not used up when they are used. So, no matter how much people use them, they will not be depleted.



Advantages of Renewable energy

- Green energy – environment friendly.
- Sustainable energy – limitless supply.
- Low operating cost.
- Can be integrated into daily life.
- Able to be stored.

RENEWABLE ENERGY- SOLAR ENERGY



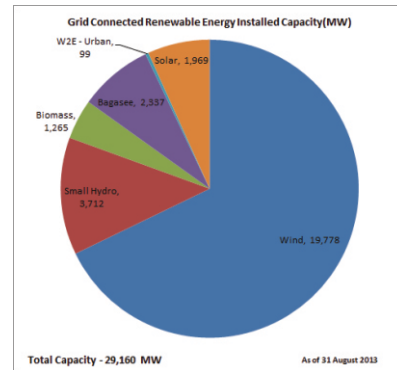
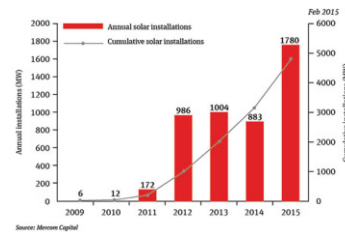
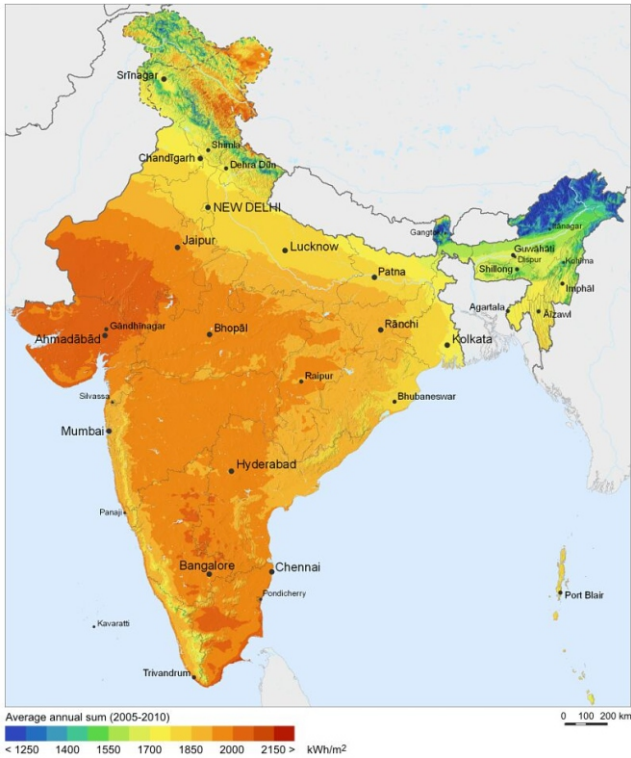
**" 5000 trillion kwh/year
@ 4-7 kwh/sq.m per day "**

- Sun is the Primary source of the energy creation
- It is an important source of renewable energy and its technologies are broadly characterized as either passive solar
- Active solar depending on how they capture and distribute solar energy or convert it into solar power.

CAPACITY OF SOLAR ENERGY

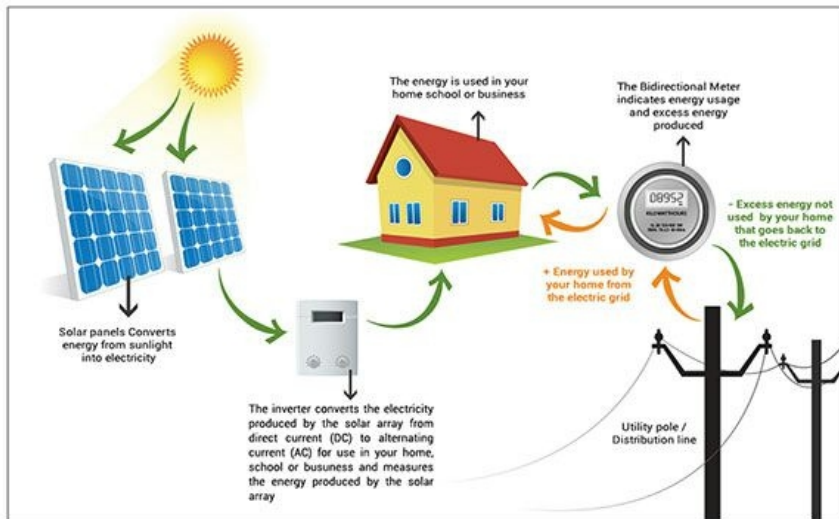
Solar power in India. Solar power in India is a fast developing industry. As of October 2017 the country's solar grid had a cumulative capacity of 15.60 GW

SOLAR POWER EFFECT ON INDIA



PROCESS OF CONVERSION SOLAR ENERGY TO ELECTRIC ENERGY

Net metering Solar Power System



Solar panels (also called “solar modules”) produce direct current (DC), which goes through a power inverter to become alternating current (AC) – electricity that we can use in the home or office, like that supplied by a utility power company.

There are two types of solar power generating systems: grid-connected systems, which are connected to the commercial power infrastructure.


WHO CAN PRODUCE SOLAR ENERGY ?

- Institutions, Residential Colonies, Office Buildings using electricity on large scale
- Giant industries, Film makers, Hotels Restaurants, Cinema Halls etc.
- Schools, Colleges, Universities, Govt Offices
- Houses having terrace



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