

# WIND

6.6% global electricity generation (2021)

1 Wind flows over the blades of a wind turbine, creating mechanical power by turning the blades.

1



2 The blades are connected to a drive shaft that turns an electric generator to produce electricity.

2

# SOLAR

3.7% global electricity generation (2021)

Photovoltaic (PV) cells contain thin semiconductor wafers, forming an electric field.



1

2

When light hits the cell, electrons are knocked loose from the semiconductor material and move in response to the electric field.

3

This generates electricity, transferred through metal conductors on the PV cell.

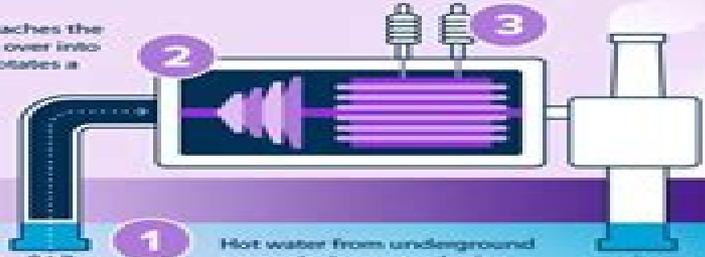
# GEOHERMAL

<1% global electricity generation (2021)

As the water reaches the surface, it boils over into steam, which rotates a steam turbine.

The turbine is connected to a generator that produces electricity.

E

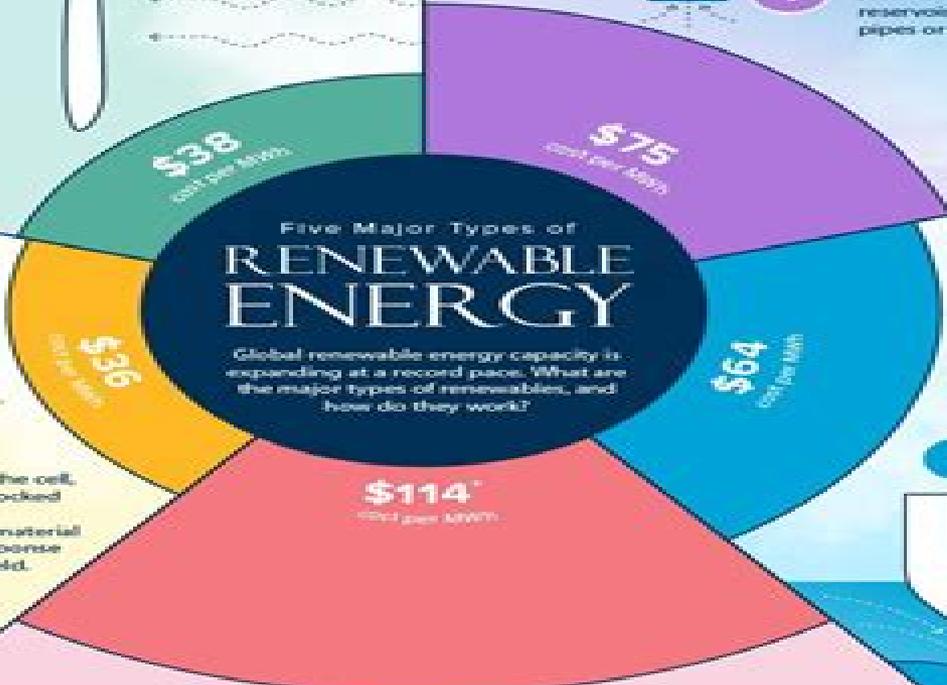


1

Hot water from underground reservoirs is pumped using pipes or wells.

2

3



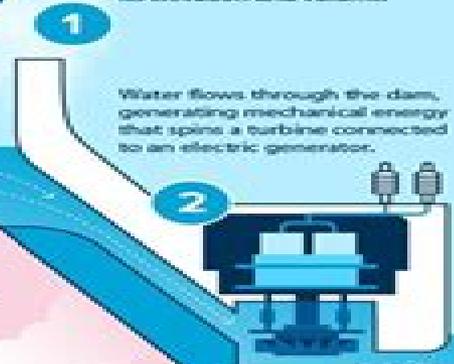
## Five Major Types of RENEWABLE ENERGY

Global renewable energy capacity is expanding at a record pace. What are the major types of renewables, and how do they work?

# HYDRO

15.3% global electricity generation (2021)

Dams or other diversion structures alter the natural flow of water to increase its elevation and volume.



1

2

Water flows through the dam, generating mechanical energy that spins a turbine connected to an electric generator.

# BIOMASS

2.3% global electricity generation (2021)

1 Biomass is burned in a boiler to produce steam.

1



2 Steam rotates the blades of a turbine connected to a generator that produces electricity.

2



3 Biomass can also be converted into other liquid or gaseous fuels used to generate electricity.

3

\* Represents the lifetime cost of a new power plant divided by total generation

# Tips Renewable Energy

**Judd E. Hollander**



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