

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

2

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

3

# GEOTHERMAL

<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

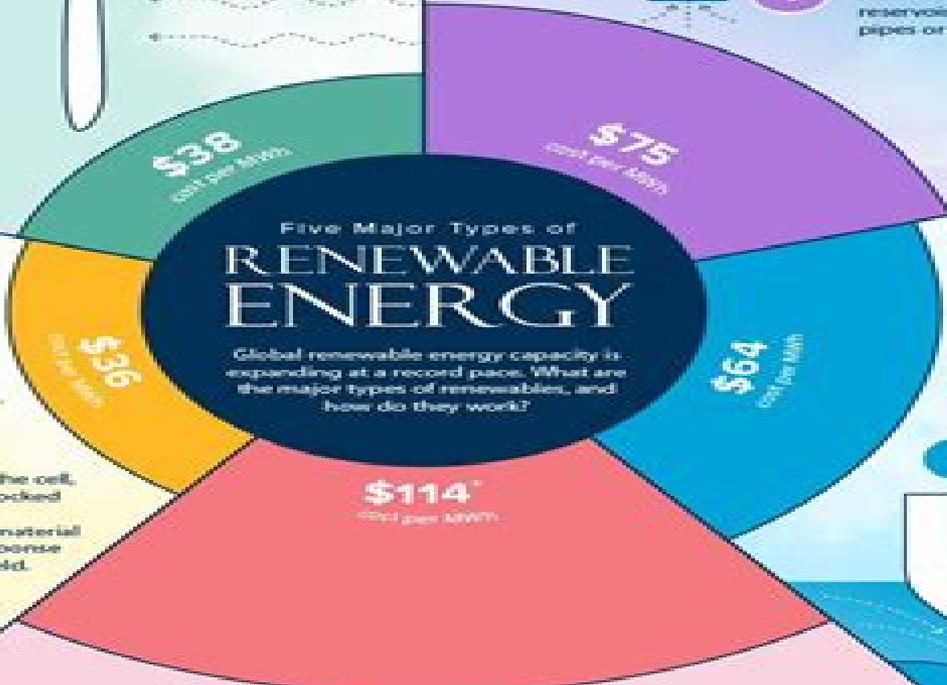


1

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

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

2

# 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

**DP Hallahan**



## **Tips Renewable Energy:**

## **Tips Renewable Energy** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Tips Renewable Energy**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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