

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

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

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

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

2

3

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

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

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

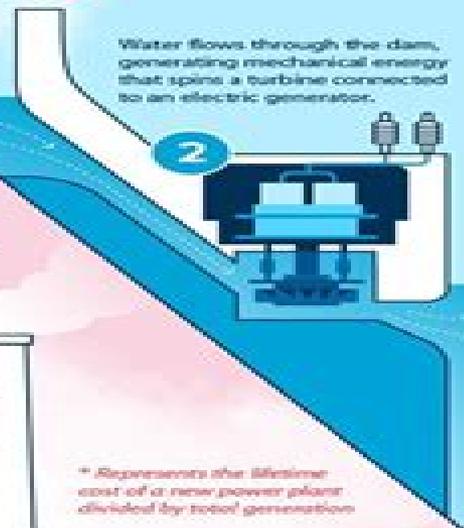
15.3% global electricity generation (2021)

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

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

3

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

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

Tips Renewable Energy

N Noddings



Tips Renewable Energy:

The Enigmatic Realm of **Tips Renewable Energy**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Tips Renewable Energy** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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