

# 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?



# 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

# HYDRO

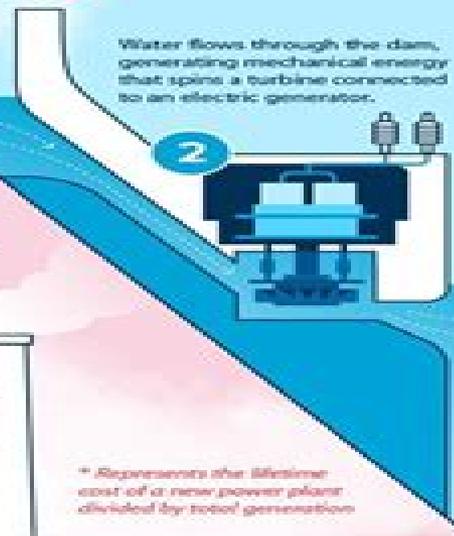
15.3% global electricity generation (2021)

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



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

# Tips Renewable Energy

**Michael Seilmaier**



## **Tips Renewable Energy:**

**Clean Energy Choices**, 2000      **New Renewable Energy Resources** World Energy Council, 1994 Renewable energy is seen by some as the only hope for the survival of the planet yet by others it is viewed as a marginal resource with limited potential All too often however the facts behind the role that renewable energy can and will play in the future global energy scene are disguised or ignored as rival camps distort the evidence to suit their own objectives      **Energy Saver: Tips on Saving Money and Energy in Your Home**, 2022 The Energy Saver guide offers tips to consumers and homeowners for saving money and energy at home and on the road By following just a few of the simple tips in the Energy Saver guide consumers can make their homes more comfortable and easier to heat and cool while saving money The guide provides the latest tips on energy saving efficient technologies and for using clean renewable energy at home      *Clean Energy Choices*, 2000 This brochure provides information on how consumers can use renewable energy in and around the home Information on buying green power using renewables to generate power using passive and active solar and geothermal heat pumps to heat cool and light buildings and using alternative fuels and vehicles is included Resources at the end of each chapter help readers find more information      **Good Green Homes** Jennifer Roberts, 2009-09 Green It conjures images of a meadow in spring for some and the color of money for others What does green have to do with our homes In essence green building or sustainable building means being smart about how we use energy water and building materials so that we can live well without needlessly damaging the environment Creating a good green home isn't just about conservation about using less or saving more although that's certainly part of it It's about creating better homes that are easier on the environment less expensive over the long term and more delightful to come home to That's the message Jennifer Roberts wants to share in *Good Green Homes* the ultimate new guide for people who want to live in comfortable healthy environmentally conscious homes With some simple steps outlined in this book you can save money and do your part to help save the environment For instance using an energy efficient light bulb saves you money It also results in less demand for electricity which in turn results in less pollution from power plants which may help a child with asthma breathe a little easier If you associate green built housing with the unconventional or the quirky tree houses geodesic domes dwellings constructed of tires or soda bottles think again Perfect for homeowners remodelers renters who might be surprised by how much is within their power to change architects builders and interior designers this book lays out seven fundamental principles of green building illustrated with more than 150 color and 20 black and white photographs of more than twenty five homes Jennifer Roberts launched two retail stores in San Francisco specializing in environmentally sensible consumer products including household goods and is a freelance writer and editor on topics that include energy efficient building design and systems      [Guide to the LEED AP Interior Design and Construction \(ID+C\) Exam](#) Michelle Cottrell, 2011-12-21 Pass the LEED AP ID C EXAM With These Proven Strategies Here is the ideal study guide for understanding and preparing for the LEED AP ID C exam Written by an

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