

Taylor Report

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Renewable energy helps power our world

Renewable energy is continuous energy supplied by natural resources.

This type of energy is “naturally replenishing but flow limited,” according to the U.S. Energy Information Administration (EIA). Although renewable energy is inexhaustible, the amount of power produced in a specific time period is restricted.

So how does renewable energy fit into the larger (energy) picture?

According to the University of Michigan (U-M) Center for Sustainable Systems, about 80% of the nation’s energy comes from fossil fuels, 8.4% from nuclear power and 11.4% from renewable sources. Wind and solar are the fastest-growing renewable sources; however, they provide just 3.8% of the total energy used in the U.S., according to the U-M center.

In 2019, renewable energy sources accounted for about 17% of *energy generation*, according to the EIA. The administration projects that the share of renewables used for U.S. electricity generation will increase from 21% in 2020 to 42% in 2050.

Types of renewable energy include:

Wind Power uses wind energy to make electricity. Wind occurs because the sun cannot heat the surface of the earth evenly. Today, wind energy is mainly used to generate electricity. In 2019, wind turbines were the source of approximately 7.3% of the total U.S. utility-scale electricity generation.



Geothermal Energy is energy garnered from the heat of the earth. This type of energy can be used in different ways depending on the resource and technology chosen, according to the U.S. Department of Energy (DOA). It can heat and cool homes and buildings through heat pumps; it can generate electricity via geothermal power plants; and it can heat structures directly.

Solar Power, or energy from the sun, is the most abundant energy resource on earth according to the DOA, with 173,000 terawatts of solar energy



striking the earth continuously. That is more than 10,000 times the world’s total energy use. Solar panels that take in the sun’s energy are made of silicon photovoltaic cells that convert sunlight into electricity instead of heat (photovoltaic = photo as in light, and voltaic = electricity).

Hydroelectric power relies on the water cycle for power. According to the EIA, hydropower was one of the first sources used for electricity generation and it is the largest single renewable energy source for U.S. electricity generation. Besides dams, other forms of hydropower include waves and tides.



Biomass is organic material that comes from plants and animals. Examples of biomass include wood, agricultural crops; food, yard and wood waste in garbage; and animal manure and human sewage. According to the EIA, biomass fuels provided 5% of total primary energy use in the U.S. in 2019.

For more information about electrical safety, visit SafeElectricity.org.



Interested in renewable energy but don't know how to get involved? We can help! Simply purchase one unit of solar for \$710.00 from Taylor Electric Cooperative's Bright Horizons Community Solar Array. You will receive monthly credits on your electric bill based on how much the array produces each month. Give us a

MORE SAVINGS

MORE

FIREWORKS.



Co-op Connections® Card

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Cooperative

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The one card that does it all.

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Participating Businesses

Advance Auto Parts, Medford

10% discount on purchases up to \$200.00

Broadway Theater, Medford

Purchase any size popcorn and get a matching size soda for free

Glass to Go, Inc., Medford

5% off in-shop windshield replacement. Buy 1 Rain-X Wiper Blade, get second blade ½ off.

Heartland Cooperative Services

Athens, Dorchester, Greenwood, Hamburg, Owen
10% discount on all dog and cat food

Jack's Auto Repair LLC, Stetsonville

10% off exhaust repairs over \$50.00, 10% off any brake related parts & labor.

Life's High Points Photography, Medford

15% discount

Medford Health Mart Pharmacy, Medford

20% off any Health Mart label

Meyer Auto Body, Medford

5% discount on any body repair over \$500.00. Up to a \$100 value.

Meyer Lumber, Dorchester

5% discount on discountable items, excluding all sale and clearance items (cash sales only). Cannot be used in conjunction with any other discounts/promotions. Card must be presented at each purchase.

Meyer Tire and Service, Medford

\$5.00 off any passenger or light truck tire - not good in conjunction with any other coupons or offers.

Napa Auto Parts, Medford

10% discount on cash & carry items (excludes engines, engine kits, transmissions, oil labor & sale items)

Northwoods Embroidery, Medford

Free digitizing on embroidery. Free set up on first color of screen printing.

Ron's Auto Body Repair, Medford

10% off for anyone over 55 or older on labor

Schierl Tire & Service Center, Medford

\$5.00 off an oil change. \$10.00 off parts for service repairs.

Stetsonville Lumber, Stetsonville

5% off single purchase over \$500.00-not good in conjunction with other coupons or offers.

Stetsonville Oil Company, Stetsonville

\$5.00 off oil lube filter service.

Strama's Self-Serve, Medford

Buy one ice cream (cone or dish) and get the 2nd ½ price.

Subway, Medford & Colby

50¢ off any sub or salad

Tallman Landscaping, Medford

5% off labor on projects over \$1,000 – free estimates

Taylor Credit Union, Medford and Abbotsford

Free rental for one year on 3"x5"x22 1/2" safe deposit box – new rentals only. Requires existing savings account or initial savings account with \$5.00 balance. Limit one per family.

Wanke Builders, Medford

Free foundation water proofing on your new home purchase

Willow Cottage Pet Grooming, Medford

\$5.00 off full groom service

Wait 30 minutes



Safe Electricity.org

**Outdoor
Summer
Reminder!**



Safety Matters

Taylor Electric lineman, Geoff Mueller, practices bucket rescue during a JT&S Safety Meeting held Wednesday, June 23rd at the office. Dairyland Safety Instructor, Kraig Gay, assists in the procedure. Bucket rescue and pole top rescue are reviewed on a yearly basis.

Energy Efficiency Tip of the Month

During summer months, run large appliances that emit heat (like clothes dryers and dishwashers) during the evening when it's cooler. This will minimize indoor heat during the day when outdoor temperatures are highest.

