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CANADIAN VALLEY ELECTRICAL

Renewables and Cooperatives

Renewable resources have become increasingly important for electric cooperatives for several reasons. First and foremost, they provide a sustainable and reliable source of energy that can be harnessed without depleting natural resources. This is critical for electric cooperatives that serve rural and remote areas where the availability of traditional energy sources can be limited.

In addition to their environmental benefits, renewable resources also offer economic advantages. Many renewable technologies such as solar and wind power have seen significant cost reductions in recent years, making them increasingly cost-competitive with traditional energy

sources. This is particularly important for electric cooperatives that operate on tight budgets and are often tasked with providing affordable electricity to their members.

Renewable resources also provide a level of energy independence and security for electric cooperatives. By generating their own power from renewable sources, cooperatives are less reliant on outside energy sources that may be subject to price fluctuations or supply chain disruptions.

Finally, investing in renewable resources can help electric cooperatives to meet their sustainability goals and reduce their carbon footprint. This is becoming increasingly important for many cooperatives as their

members become more concerned about the environmental impact of their energy use.

In summary, renewable resources are critical for electric cooperatives because they

provide a sustainable, cost-effective, and reliable source of energy while also promoting energy independence and meeting sustainability goals.

Mark Your Calendar!

Canadian Valley Electric Annual Meeting & Member Appreciation Event

SATURDAY, AUGUST 5TH
Firelake Arena, 18145 Old Rangline Rd.
Shawnee, OK. 74801

Registration: 9:30AM - 11AM

Meeting: 11AM

A Message from

Canadian Valley Electric CEO



Gary Highley

Demand and Renewables

Intermittent power generation resources, sometimes called renewables, are becoming a more significant part of the electric generation portfolio. While they generate small amounts of offsetting energy, they do not reduce the demand on the electric system or the maximum amount of power the electric grid needs to be designed to provide.

The times of maximum demand are usually always in the times of most need, extreme hot or cold weather events. These are driven by residential accounts attempting to stay comfortable, and commercial and industrial processes needing reasonable operating temperatures.

Summer and winter peaks are different, and the effects of renewable resources vary dramatically.

We see a temperature peak in the afternoon, then the temperatures fall in the evening and overnight. Summer peak heat will occur when the sun is at its brightest, suitable for offset with solar generation. Storage can help shift some energy into the evening when residential usage is the highest.

Winter peaks are a different animal altogether. They can last days. When cold weather settles in, it usually brings overcast skies reducing the effectiveness of solar generation throughout the day to minimal levels. The most frigid temperatures are typically early morning before sunrise when solar cannot operate. The minimal solar generation throughout the day must provide more power to move into storage. Even if you charge storage systems from grid power, today's technology limits battery effectiveness to about four hours.

Compounding the winter peak problem is that wind turbines, that can typically operate at any hour of the day, have temperature limitations below which they cannot operate. The ability for intermittent or renewable power generation resources to address the winter peak problem is minimal, pushing that extremely high electrical demand onto traditional nuclear, coal, gas, and hydro sources that can still operate in those conditions. Of those, gas generation picks up most of the load, driving price volatility that can be over 1,000 times normal. Just think about the difference in paying 9 cents per kWh on a typical day versus \$90 per kWh during that period. This happened in the Texas deregulated market.

What it all comes down to is that the mix matters. Renewable generation provides low-cost energy when available at the expense of significant duplicative upfront capital investment. However, you still need the total capacity available with traditional always-available sources, currently nuclear, coal, gas, and to some extent hydro.

Canadian Valley Electric Cooperative

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Website: www.mycvec.coop



Business Hours

Seminole Office -

8:00 a.m. - 5:00 p.m., Monday - Friday

Eufaula Office -

8:00 a.m. - 4:30 p.m., Monday - Friday

Seminole Warehouse -

7:00 a.m. - 3:30 p.m., Monday - Friday

Board of Trustees

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Gary Highley

Chief Executive Officer

Did You Know?

Oklahoma has 77 counties and electric cooperatives serve all of them!



*Improve Life,
Serve Community*

CVEC Fiber Community Events

At CVEC Fiber, we're committed to being an active member of the communities we serve. Over the past couple of months, we have participated in the Made in Oklahoma Festival, and as a member of the Cooperative Broadband Coalition, we hit a huge milestone to help bridge the digital divide in our community and make rural Oklahoma a better place to live and work.

CVEC Fiber is committed to continuing our efforts to support our community, which aligns with our mission statement, "Improve Life, Serve Community." We look

forward to finding new ways to make a positive impact, so stay tuned for future community events on our Facebook page!

Made in Oklahoma

On Saturday, April 1st, CVEC Fiber had a booth at the Seminole Chamber of Commerce Made in Oklahoma Festival in Downtown Seminole on Main Street. This year the event had over 200 vendors, a blood drive, a car show, cornhole tournament, food trucks, and more! The CVEC Fiber team had a great time visiting with the community and informing everyone about CVEC Fiber's Internet to the home! Sarah Akers, Member Service Representative for Canadian Valley, said, "It was very heartwarming to see the happiness we are bringing to our community and showing awareness for CVEC Fiber."



Cooperative Broadband Coalition Milestone

The Cooperative Broadband Coalition (CBC) is paving the way to bring the vital service of gigabit broadband to those who don't have it. CVEC Fiber is part of the CBC, which is comprised of all the Oklahoma electric cooperatives working toward bridging the digital divide by offering fiber optic Internet to their rural communities. On Monday, May 2, CVEC Fiber and other Oklahoma broadband cooperatives, met at the capitol to celebrate reaching 100,000 connected subscribers as a group! While we were at the capitol, we passed out 100 Grand candy bars to celebrate with the Oklahoma lawmakers. Sheila Allgood, General Manager of CVEC Fiber, stated, "It is amazing what Oklahoma electric cooperatives have accomplished in a short time. Serving fiber optic Internet to 100,000 households which adds up to over 250,000 Oklahomans with an investment of over \$1 billion, is something to celebrate, and we are just beginning! This milestone would not be possible without the trust and loyalty of the cooperative members who signed up for services and patiently waited for us to build the fiber network. We continue building our network, connecting more Canadian Valley Electric members daily, and providing reliable, fast internet."



ELECTRALITE CLASSIFIED ADS

Classified Ads Must be Submitted to
<https://www.mycvec.coop/submit-an-ad>

Ads must be received by the first of each month



AUTOMOBILES & BIKES

1963 Massey 65, runs good, \$3,800 OBO, 405-388-923.

FARM & RANCH

Custom hay baling within 20 miles of I-40 and Highway 56 exit. Will bale on shares or per bale. 405-227-3224 .

HOME & LAND

MISCELLANEOUS

Miscellaneous furniture - light oak roll-top desk, coffee table, sofa and end table, medium oak queen sleigh bed frame, miscellaneous bed frames, antique tables and chairs, banquet, bedroom furniture, small china cabinet, shelves, TV cabinet,

Prague, 405-640-4530.

Route 66 Telephone Museum is seeking donations of cinder blocks to construct a community storm shelter, due to the elderly and others living without storm protection. 405-443-0579.

Have a Safe Father's Day

Keep Father's Day happy by keeping Dad safe, even as he tries out his new electric gifts.

Warn dad that home repairs can be dangerous when electricity gets involved, so he needs to use care with electrical equipment and steer clear of power lines.

Some tips:

- A ladder—even a wooden one—can cause a fatal

shock if it touches a power line.

- Inspect power tools and cords for frayed or broken wires and cracked cases before plugging them in.

- Unplug outdoor tools and appliances when not using them. Store them out of reach of children.

- Wait for things to dry off before working outdoors after it rains. Even damp grass

can be dangerous when using electricity.

- When carrying ladders, aluminum siding, poles and other long objects, look up! More than 20 percent of people who die in electricity-re-

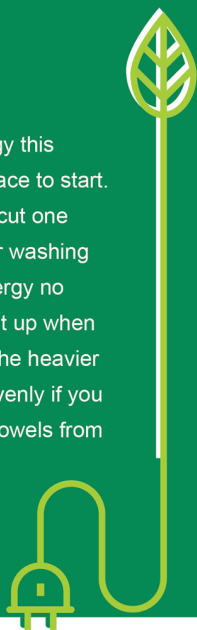
lated home repair accidents have touched a power line with a ladder or building material.

- Keep your projects at least 10 feet away from power lines.

Energy Efficiency Tip of the Month

Looking for additional ways to save energy this summer? Your laundry room is a great place to start. Wash clothes with cold water, which can cut one load's energy use by more than half. Your washing machine will use the same amount of energy no matter the size of the clothes load, so fill it up when you can. When drying clothes, separate the heavier cottons. Loads will dry faster and more evenly if you separate heavier cottons like linens and towels from your lightweight clothing.

Source: Dept. of Energy



A PODCAST POWERED BY
 Canadian Valley Electric Cooperative

Listen in on Tuesday, June 27 when Communications Coordinator Kaci Dennis and CVEC Chief Operating Officer Josh Holt will be discussing renewable resources.

Energize Oklahoma can be found on our Facebook page or at <https://www.buzzsprout.com/1906989> the last Tuesday of each month. It is also available on Apple Podcasts, Spotify, and iHeart Radio apps.