80 BY 30

The Path to a **Carbon-Free Future**



Poudre Valley REA

Your Touchstone Energy® Cooperative

WWW.PVREA.COOP/80by30

PLAYBOOK

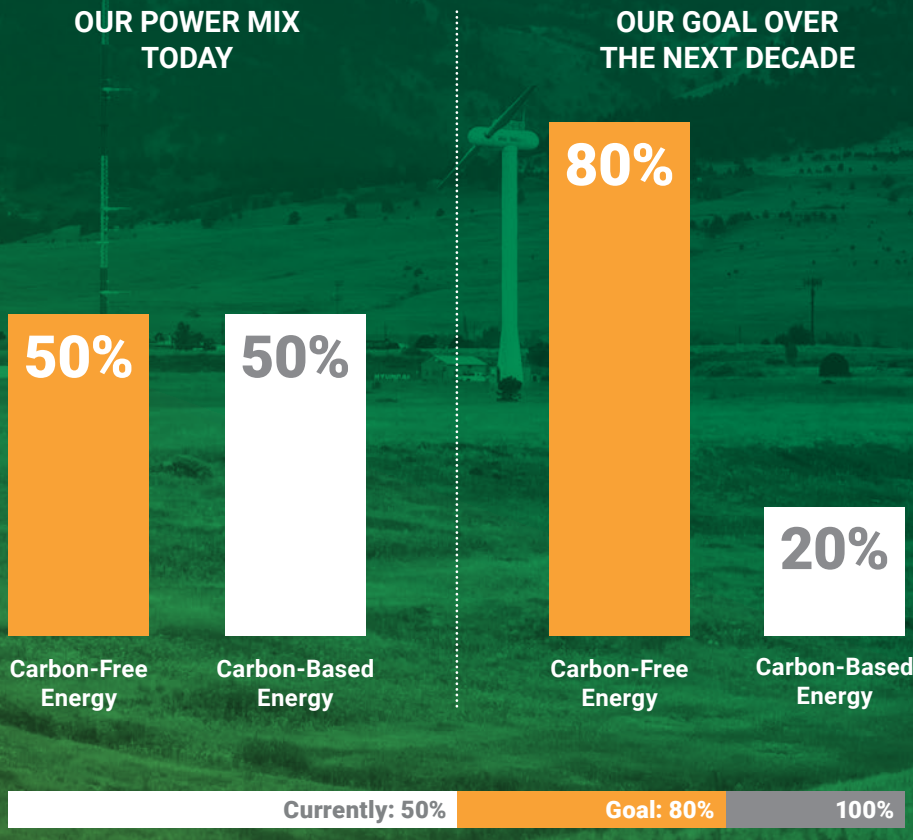
80 BY 30



Our Goal — 80 by 30

PVREA's goal is to provide 80% carbon-free energy to our members by 2030.

PVREA's goal is to increase the carbon-free energy we provide our members from an estimated 33% in 2019, to 80% by 2030. We will work towards meeting this goal without raising rates while maintaining the reliable and safe service our members have come to expect.



PVREA **Renewables**

Our Local Renewable Energy Projects

1. **CARTER LAKE HYDROPOWER FACILITY | 2.6 MW**

   We purchase 100% of the energy produced by the Robert V. Trout Hydropower Plant at Carter Lake. Two turbines spin to generate energy for 1,000 PVREA households annually.

2. **HIGHLANDS COMMUNITY SOLAR | 100 KW**

   Constructed in August 2012, this was the first community solar farm in Northern Colorado! Nearly 500 solar panels generate 180,000 kWh per year. Our members purchase energy from the array, and it's 100% sold out.

3. **WILLOX COMMUNITY SOLAR FARM | 500 KW**

   Our second solar farm generates more than 814,000 kWh per year. PVREA members purchase from this array, and it's 100% sold out.

4. **VALLEY VIEW SOLAR FACILITY | 4 MW**

   This solar facility generates renewable energy locally to our members. The facility produces electricity from over 48,000 solar panels, powering over 1000 PVREA households annually.

5. **SKYLARK SOLAR FACILITY | 7.05 MW**

   This solar facility generates renewable energy locally to our members. The facility produces enough electricity to power nearly 1,580 PVREA households annually.

6. **PLATTE VALLEY SOLAR FACILITY | 4.45 MW**

   This solar facility generates renewable energy locally to our members. The farm produces enough electricity to power 970 PVREA households annually.

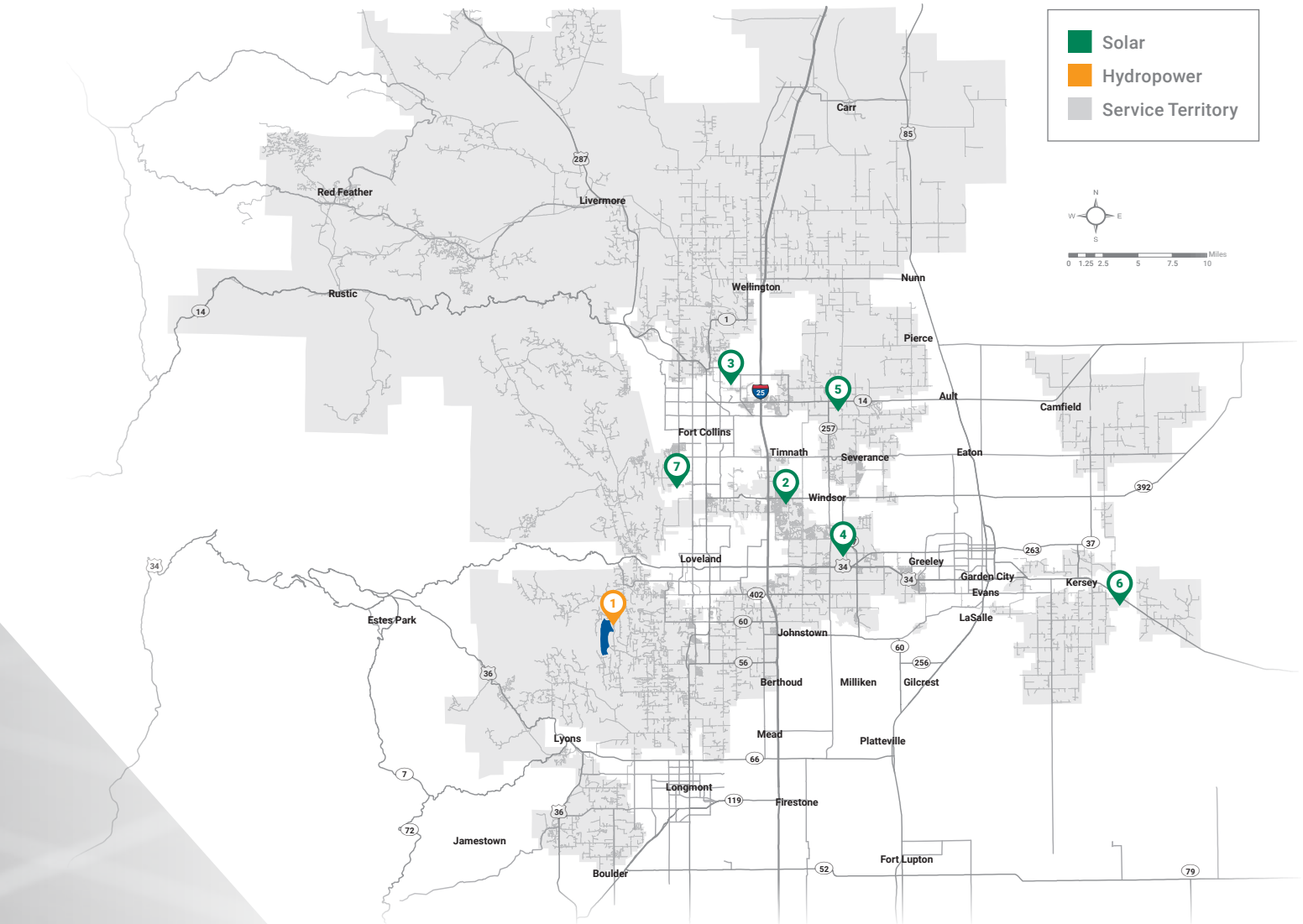
7. **COYOTE RIDGE COMMUNITY SOLAR FARM | 1.5 MW**

   This community solar farm is located at the Larimer County Landfill and was completed in 2017. It produces almost 2.9 million kWh per year. Our members purchase energy from the array, and it's 100% sold out.

Proudly maintaining a diverse, reliable power mix that is increasingly clean for our members.



PVREA **Renewables**















Opportunities & Challenges

Opportunities

PVREA has been actively working toward this goal for the past several years, and we believe we are now on the cusp of what's possible.

- Provides the formation of proactive strategy and initiatives for PVREA and influencers to reach a long-term goal for a more carbon-free environment
- The increased sustainability of our environment
- Creates a potential to lower costs over the next decade
- More products, services, and options for electric consumers
- Increased engagement and creation of an atmosphere for conversation between energy providers, regulators, and legislators to produce a more comprehensive energy strategy for the state of Colorado

Challenges

The 80 by 30 goal is very ambitious and will be a challenge to reach while ensuring PVREA's focus on affordability and reliability. The following advancements must occur in the coming years to reach the 80 by 30 goal:

- An organized energy market must exist, with Tri-State G&T, the Co-op's wholesale power supplier, and PVREA as active participants
- Battery storage technology must advance while costs continue to decline
- Transmission and distribution systems must be fully integrated
- Advancements must be made in grid management systems
- Improved distributed generation resource performance
- Active development and adoption of consumer energy management systems





How we will strive to get to 80% by 2030.

HELP MEMBERS MANAGE ENERGY

through interactive tools, rebates, load control, and innovative rate options

IMPACT POWER RESOURCES

by incorporating more carbon-free energy sources, at local and regional levels

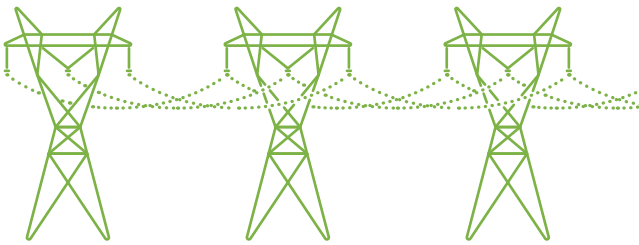
LEGISLATIVE AND REGULATORY ENGAGEMENT

by promoting the importance of electric co-ops and working toward the development of an organized market (regional transmission organization)

TRANSFORM THE ELECTRIC GRID

through advanced technology, strategic electrification, and expanded services





The **Facts**

On May 28, 2019 the Poudre Valley REA Board of Directors set a long-term goal for the environmental sustainability of the Cooperative's supply of power to its members.

This action followed a strategic discussion involving the PVREA Board of Directors at the May 2019 Board Meeting.

We believe establishing a goal solidifies the path for the Cooperative to continue the momentum of becoming more carbon-free while maintaining affordable rates and reliable energy for our members.

PVREA recognizes with the current technology and market, this goal will be a challenge, but feasible through continued advancement in technology, development of an organized market (regional transmission organization) and partnerships.

The Co-op believes in taking care of our natural resources by working toward reducing our carbon footprint.

PVREA has been making advancements by incorporating renewable energy into the local grid for co-op consumers. The Co-op has long-term purchase power agreements with small, carbon-free generators: two hydroelectric generators, four large solar facilities, and three co-op community solar farms.

Tri-State G&T continues to announce additional projects and is striving to bring 50% of the energy consumers use provided from renewables by 2024.



We will work towards meeting this goal without raising rates while maintaining the reliable and safe service our members have come to expect.

The goal will continue our focus of affordability and reliability — we will not work towards meeting 80 by 30 without those in alignment.

Continued enhancements in technology and an organized market (regional transmission organization) will be paramount in reaching our goal — we can impact both of these.



We intend to be at the table for the conversations regarding energy that will be taking place in the months and years to come.

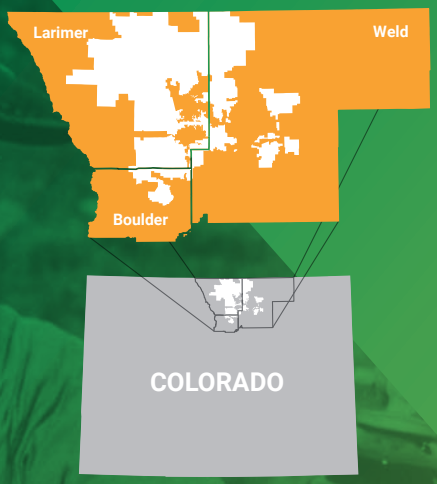
We will get there together. Members can help by participating in energy efficiency efforts, aided by PVREA's programs, and renewable energy programs.

Who We Are

About Us

Poudre Valley Rural Electric Association, Inc is an electric distribution cooperative in Northern Colorado with a service area that encompasses 2,000 square miles in Boulder, Larimer and Weld counties.

PVREA is owned by those we serve — 50,000+ homes and businesses.



Our Mission

We are committed to providing safe, reliable, efficient energy solutions with exceptional service to our members.

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Founded
1939

Line
4,000+ Miles

Services
50,000+





Poudre Valley REA

Your Touchstone Energy® Cooperative

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Mon–Thurs: 7:30 a.m.–5:00 p.m.
Fri: 7:30 a.m.–4:30 p.m.

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