



Charge At Home. Charge at Work. Community Charging.



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Key Accounts Specialist

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Holy Cross Energy is leading the responsible transition to a clean energy future.



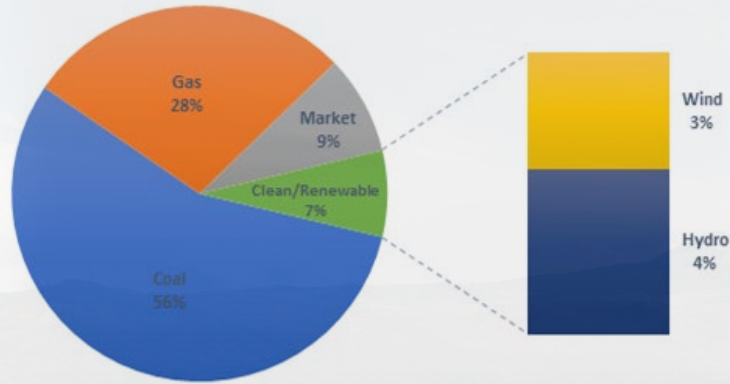
Holy Cross Energy (HCE) provides safe, reliable, affordable and sustainable energy and services that improve the quality of life for our members and their communities.

Founded in 1939, we serve more than 43,500 members in scenic Western Colorado with:

- 270 MW peak demand
- 3,000 miles distribution
- 120 miles transmission
- 165 employees
- \$120,000,000 annual revenue

HCE's resource plan calls for 100% renewable energy by 2030 and we're currently projecting to exceed that target.

2005 Energy by Fuel

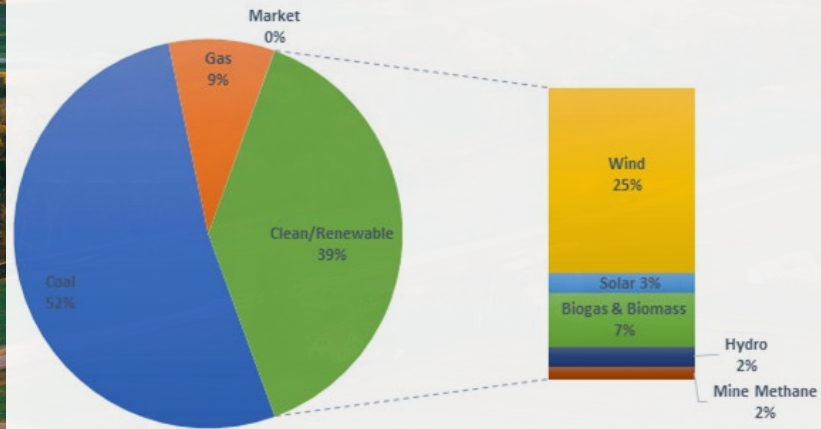


Clean Up The Supply

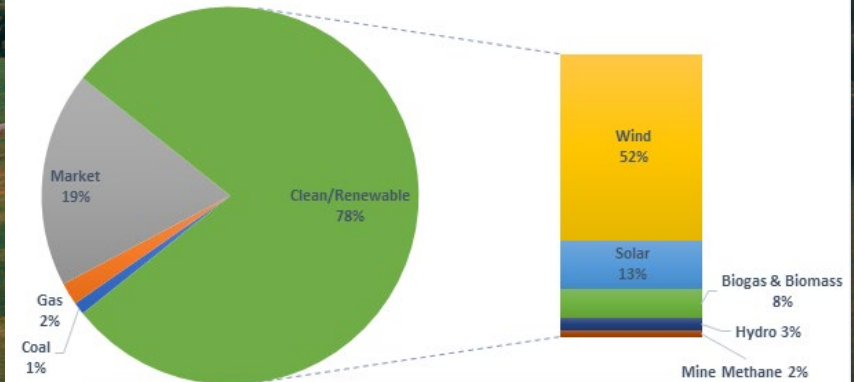
HCE's Power Supply



2018 Energy by Fuel



2024 Projected Energy by Fuel



■ Coal ■ Gas ■ Market ■ Wind ■ Solar ■ Biogas & Biomass ■ Hydro ■ Mine Methane



Future Grid

Grid Modernization
Initiative



Utility IoT

More devices installed on the grid to control, monitor, and optimize.



Behind the Meter

Communication with devices installed behind the meter.



Member Programs

Encourage member behavior through new programs and services.

CT4000



DCFC



Home charger





Charge at Home. Charge at Work.

DER Payment Rider

- HCE provides rebated L2 charger (Home or Home Flex) upon residential customer request at no cost
- **DER Service Agreement** option: to have a local electrician provide the installation from the panel to the plug and HCE pays the electrician directly
- This allows the members to make payments for 36 months for the installation to help reduce upfront cost
- 174 Home Charging Ports
 - Over 12,800 sessions in 2020
 - 111,030 of GHG avoided!
 - Goal 250 home chargers in 2021



Community Charging

Clean Communities and Corridors

- HCE pre-approved 90 locations in service area best suited for DC fast charging
- If one of these sites is proposed by a town or community partner, HCE provides engineering support and up to \$150k in infrastructure upgrades

- ▶ **Best** – Very low infrastructure cost
- ▶ **Better** – Existing transformer, upgrade capacity cost
- ▶ **OK** – No 480V. New transformer installation required
- ▶ **Bad** – 300+ foot line extension plus transformer cost
- ▶ **Worst** – No three-phase infrastructure in the vicinity



- Location Score: 1-Best
- Line Loop #755P2
- Current Size: 300kVA, 480V
- Enough Capacity for an additional 300 kW of load
- All work on secondary side

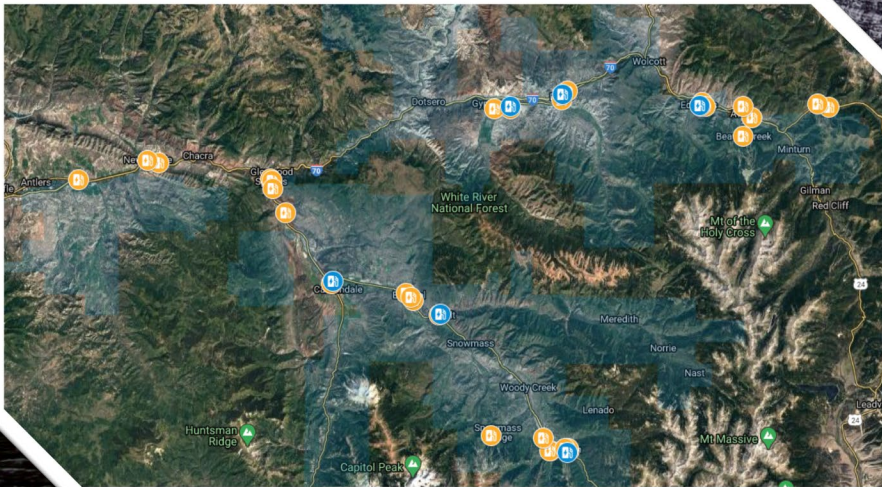


Community Charging

Clean Communities and Corridors

- 59 Commercial charging stations and 5 DC Fast Chargers
 - Over 5,000 Sessions in 2020 alone
 - 52,602 of GHG avoided!
 - Projected 75-80 new community chargers In 2021

- Supports local communities
- Multi-family dwellings
- Visitors to our area



<https://www.holycross.com/chargemap/>



Additional Support

- **Drive on Sunshine** - Allows member 2kW of addition PV when enrolled in HCEs Charge at Home program
- **E-Bike Rebate** - \$200 Rebate (158 this summer)
- **Custom BE Rebate** - Custom rebate program



- As our *Journey to 100%* plan is implemented, HCE will likely have excess wind generation overnight

- Low cost, clean energy is perfect for utilization by transit fleets (ECO, RFTA) and school districts

- HCE has collaborated on infrastructure analysis, rate design including TOU with *no demand charge*, on-site solar PV and green pricing

Electrify My Ride

Transit Program

Rate	Consumer Charge	Demand Charge	Energy Charge	ECA	Minimum
TOU	\$12.00	\$0.00	0.06¢ (off peak)	\$0.00	\$12.00
			0.24¢ (on peak)		
*on peak defined as 4pm-9pm 7 days a week					



EV Growth

- 11 new EV models to be released in 2021
- HCE projected to see 34% growth in EV's over the next 2 years
- Global EV sales up 39% in 2020
- EV stock in the US has doubled each year since 2011

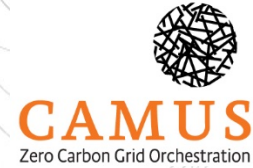


Teamed up with ChargePoint

1. Able to purchase chargers at a discounted rate by buying in bulk
2. Have one direct contact at ChargePoint to help us with questions and trouble shoot issues that might arise
3. Cutting edge equipment with support for any updates needed
4. User friendly website and app for members to use
5. Each member can decide how they want to use their chargers (Charge a fee or leave it free to the community)



HCE Energy Optimization



HQ1-5 (L2 Commercial) Per-Port



Testing at HCE HQ on a CT-4000. Red line is a Model Y at a fixed charging rate; the blue line is a fleet Chevy Bolt charging at a predetermined varying rate



EV Charging over time in HCE's service territory: 125 ChargePoint stations; individual units (left) and aggregated perspective (right) illustrating nightly charging peak (July 2020).



Questions

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Thank You

