2025 CO_2 Emissions Report



BRONCO PLAINS II
KIT CARSON COUNTY, CO

Who We Are

Founded in 1939, Holy Cross Energy (HCE) is a not-for-profit rural electric cooperative that provides safe, reliable, affordable and sustainable energy and services that improve the quality of life for more than 45,000 members and their communities in Western Colorado. HCE is committed to leading the responsible transition to a clean energy future.



HIGH MESA SOLAR+STORAGE
IN GARFIELD COUNTY

Power Supply

HCE has long term power supply commitments through contracts with Public Service Company of Colorado (a subsidiary of Xcel Energy), The Energy Authority, and Western Area Power Administration. HCE also has long-term purchase power agreements with several clean and renewable generators including a 200MW wind farm, 36 commercial solar arrays, and 8 small hydroelectric generators. HCE also owns 2.7MW of solar.

HCE owns an 8% share in Unit 3 at the Comanche Generating Station located in Pueblo, CO. The energy from these 750 MW super-critical, coal-fired generating units became operational in July of 2010.

A total of 85% of the energy we provide our members was supplied from clean and renewable resources, 69% wind, 13% solar, and 3% hydro. The remaining non-renewable energy came from 5% coal and 10% gas.

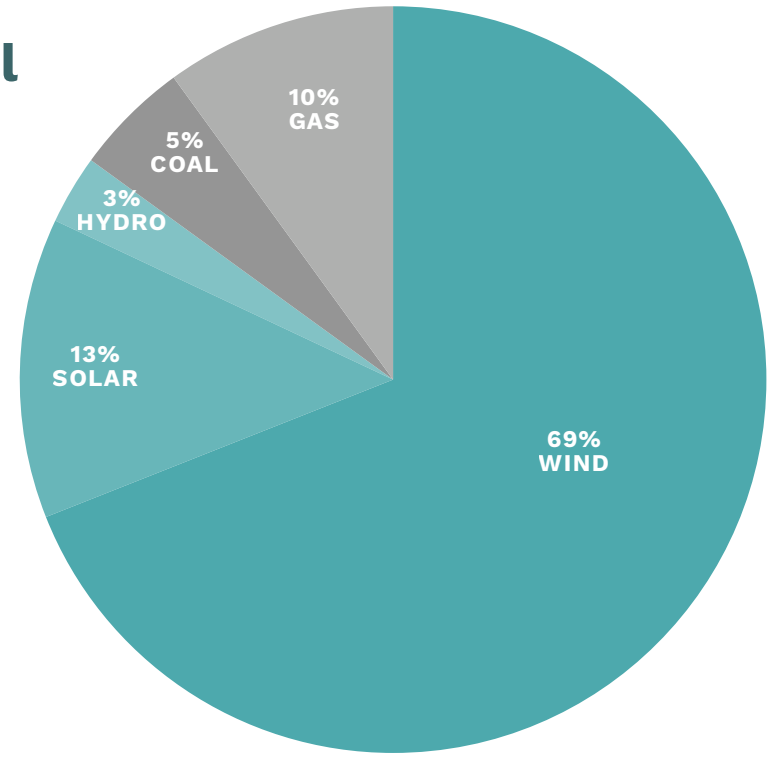
2025 Energy By Fuel

85% CLEAN & RENEWABLE

- 69% WIND
- 13% SOLAR
- 3% HYDRO

24% NON-RENEWABLE

- 5% COAL
- 10 % GAS



HCE offers a voluntary program to support renewable energy generation in which members may select their fuel source: wind, local hydro, and local solar. A total of 42,785 MWh were purchased by 1,853 HCE members in 2025. In addition, HCE's members installed an additional 64 small renewable energy generators (mostly solar PV) in 2025, bringing the total number of local renewable installations to 2,927. The total 29.3 MW of net-metered renewable capacity provided about 16,750 MWh to the HCE distribution system for other members during the calendar year.



VINELANDS HYDROELECTRIC PLANT
PALISADE, COLORADO

In 2007, House Bill 1281 added to the existing renewable standards (RES) for investor-owned utilities and required that electric cooperatives like HCE supply 10% of retail sales from renewable sources by 2020, with the required percentages increasing over time. HCE sold a total of 1,226,539 MWh to its retail customers in 2025, resulting in a requirement to have 122,653 MWh in RES eligible generation. Exceeding the requirement, 1,042,588 MWh (85% of all purchases) of HCE's retail electric sales came from eligible renewable sources, excluding renewable sales to customers under the voluntary pricing program. Renewable Energy Certificates (RECs) equal to those sales are retired on an annual basis using the RES standards and are not used for any other purpose.

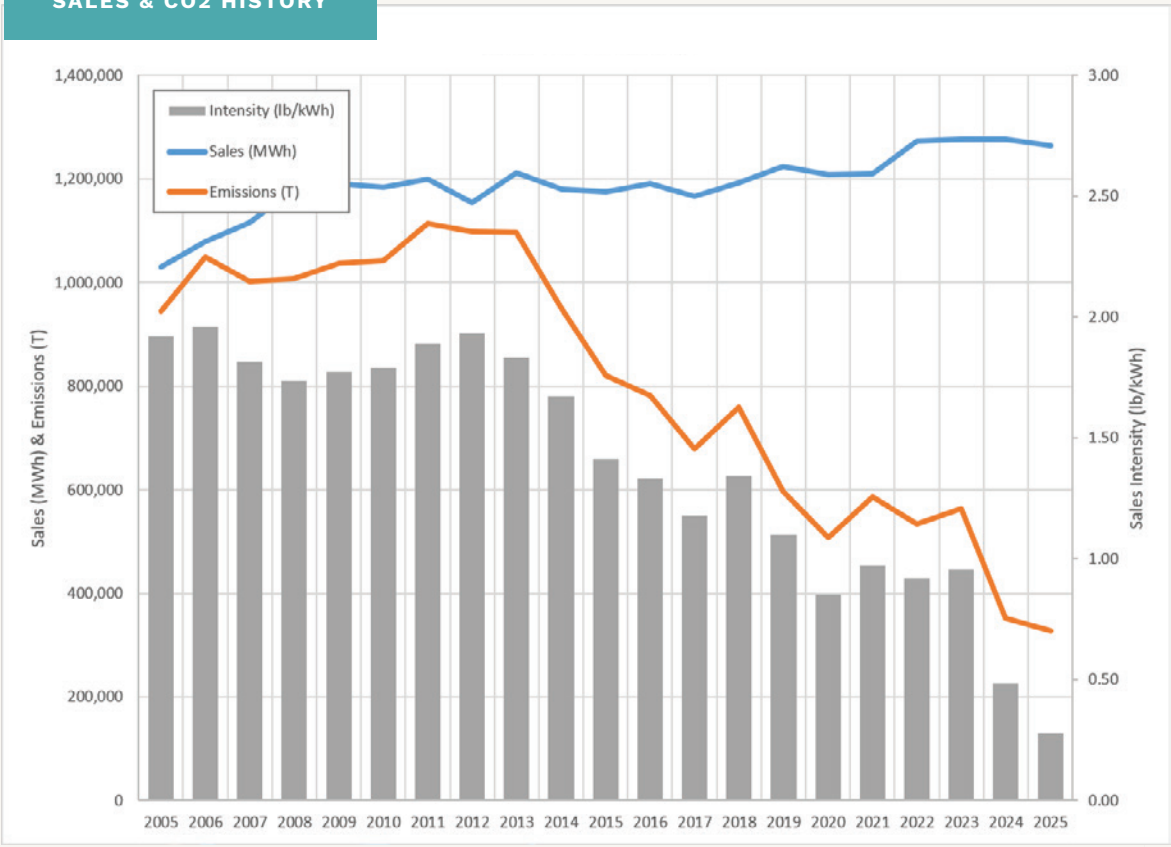
Additionally, HCE filed a Clean Energy Plan (CEP) with the Colorado Public Utilities Commission, which received approval in 2022. This plan outlines a pathway that is above and beyond the CEP statutory threshold of 80% emissions reductions from 2005 levels, in alignment with HCE's 100X30 goal. Holy Cross is currently ahead of the interim year projections for emissions reductions in 2025 as outlined in the submitted plan.

Emissions & Renewable Energy

HCE procured 1,681,262 MWh of wholesale and generated power. The difference between this figure and total retail sales includes wholesale sales, transmission and distribution line losses, electricity used in company facilities, and electricity provided to net-metered customers that was offset under that billing mechanism.

YEAR	RECEIVED POWER (MWh)	TOTAL SALES (MWh)	RENEWABLE SALES (MWh)	EMISSIONS (SHORT TONS)
2025	**1,681,262**	**1,226,539**	**42,785**	**225,404**
2024	1,558,871	1,277,198	56,781	279,082
2023	1,716,984	1,276,038	55,360	563,576
2022	1,618,102	1,273,153	48,997	534,246
2021	1,266,222	1,210,410	48,556	586,246
2020	1,261,926	1,209,196	50,522	507,629
2019	1,275,491	1,224,906	36,961	597,496
2014	1,240,374	1,179,789	15,002	950,373
2005	1,080,417	1,032,137	10,501	944,419

SALES & CO2 HISTORY



The CO2 emissions associated with electric power generation used to serve HCE's customers in 2025 totaled approximately 225,404 metric tons of CO2 equivalent emissions. Emissions in 2025 were 86% lower than 2005 levels, while annual sales have grown by 17% since then. Additionally, emissions in 2025 have decreased by 7% from 2024 levels. After accounting for line losses and the sales which have no associated emissions (under voluntary green pricing programs), the average emissions intensity for electricity delivered by HCE during 2025 was 0.277 lbs of CO2 equivalent per kWh.

POWER SUPPLY (MT CO2E)	2005	2014	2018	2019	2020	2021	2022	2023	2024	2025
Comanche 3		329,363	430,023	372,334	14,675	339,259	257,933	420,562	330,636	225,093
T&D Losses, Company Use	44,213	28,031	11,714	9,031	16,279	7,441	10,104	9,063	6,288	5,724
Contracted Power Supply	900,207	592,979	317,987	216,131	429,559	228,652	265,997	131,779	12,228	97,222
Total	944,420	950,373	759,724	597,496	460,513	575,351	534,034	563,576	349,152	328,039