



# 2020 CO2 EMISSION REPORT

## 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 almost 44,000 members and their communities in Western Colorado. HCE is committed to leading the responsible transition to a clean energy future.

## POWER SUPPLY

HCE has long term power supply commitments through contracts with Public Service Company of Colorado (a subsidiary of Xcel Energy), Guzman Energy LLC and Western Area Power Administration. HCE also has long term purchase power agreements with several small clean and renewable generators located in and near our service territory, including seven small hydroelectric generators, 10 small commercial solar arrays, a 12 MW biomass plant, and one community owned solar array. HCE also owns 2.7MW of solar. Energy produced from HCE's 145 kW solar array provided bill credits to low and moderate income members at no cost.

HCE owns an 8% share in Unit 3 at the Comanche Generating Station located in Pueblo, CO. The energy from this 750 MW super-critical, coal-fired generating unit became operational in July of 2010. Guzman Energy LLC began purchasing this energy from HCE in February of 2019.

Over 46% of the energy HCE provides was supplied through clean and renewable resources, such as wind, solar, hydro, biomass, and coal mine methane generation. The remaining energy by fuel consisted of

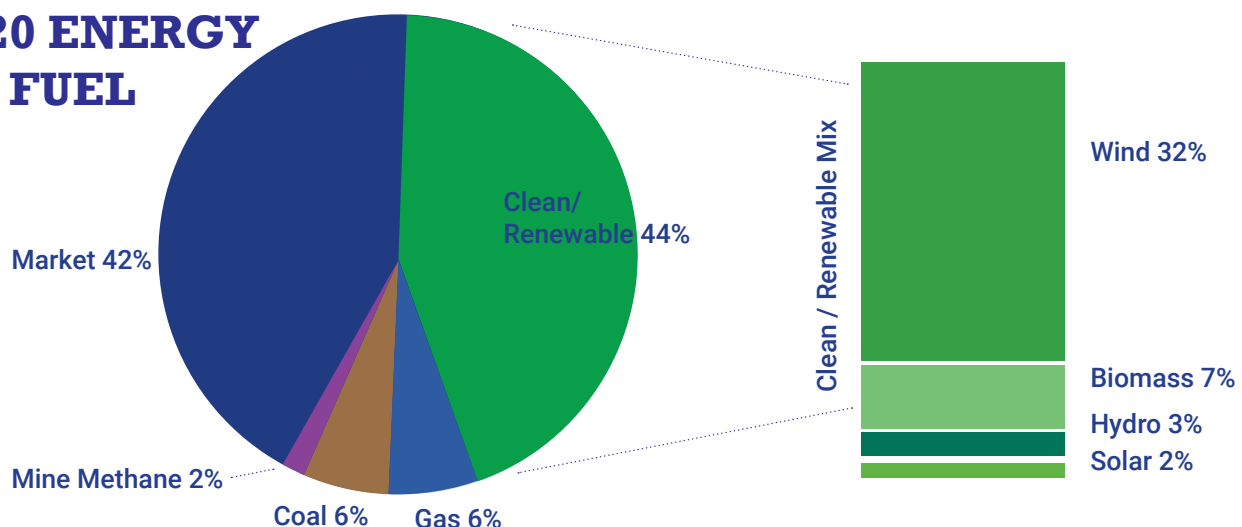


6% coal, 6% gas, and 42% from market sources which could not be identified with a high level of certainty.

HCE offers a voluntary program to support renewable energy generation in Colorado. Members may select their local renewable energy fuel source: Colorado wind, local hydro, and local solar. 50,522 MWh was purchased by 1,750 HCE members in 2020. In addition, HCE's members installed 365 small renewable energy generators (such as solar panels) behind their meters by the end of 2020, bringing the total number of net metered generation installations to 1,853. The 16,438 kW of distributed renewable generation produced about 22,661 MWh during the calendar year.

Colorado passed a Renewable Energy Standard (RES) in 2004 by voter initiative that required Investor-Owned Utilities to supply 10% of their retail electric sales from renewable sources by 2020.

## 2020 ENERGY BY FUEL





HCE will be filling a voluntary Clean Energy Plan to the Colorado Public Utilities Commission in early 2022. This plan will outline a pathway that is above and beyond the Clean Energy Plan statutory threshold of 80% emissions reductions from 2005 levels, in alignment with HCE's 100X30 goal.

## EMISSIONS & RENEWABLE ENERGY

HCE procured 1,301,125 MWh of wholesale and generated power (including estimated generation from net meters) and billed for 1,205,645 MWh to serve consumers' loads. The difference includes wholesale transactions, transmission and distribution line losses, electricity used in company facilities and electricity provided to net metered customers that was offset under that billing mechanism.

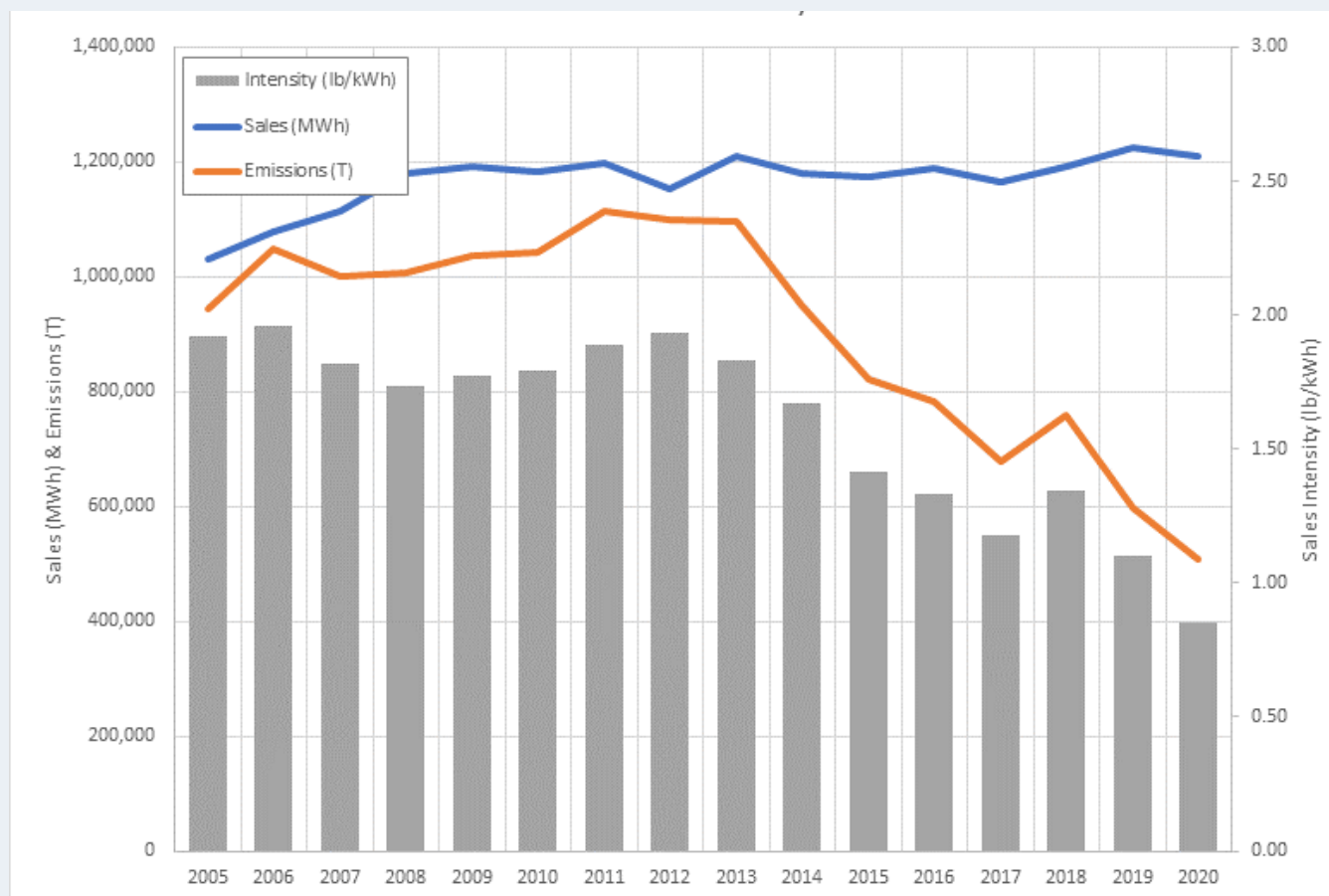
The CO2 emissions from electric power generation used to serve HCE's customers in 2020 totaled approximately 462,689 metric tons of CO2 equivalent emissions. Emissions in 2020 were 51.2% lower than when tracking began in 2005 while sales were 18% higher. Additionally, emissions in 2020 have decreased by 22.9% from 2019 levels. After accounting for line losses and the sales which have no associated emissions (under voluntary green pricing programs), the average CO2 intensity for delivered electricity during 2020 was 0.85 lbs. per kWh.

In 2007, House Bill 1281 added a requirement that electric cooperatives supply 10% of retail sales from renewable sources by 2020, with the required percentages increasing over time. HCE was required to supply 10% of retail sales from renewable sources in 2020, or the equivalent of 120,919 MWh. In total, 535,942 MWh (44%) of HCE's retail electric sales came from sources which qualify for the Colorado RES in 2020, excluding renewable sales to customers under the voluntary pricing programs. Renewable Energy Credits equal to those sales are retired on an annual basis using the RES Standards and are not used for any other purpose.

## TOTAL CO2 EMISSIONS

YEAR	RECEIVED POWER (MWh)	TOTAL SALES (MWh)	RENEWABLE SALES (MWh)	EMISSIONS (Short tons)
2020	1,261,926	1,209,196	50,522	507,629
2019	1,275,491	1,224,906	36,961	597,496
2018	1,257,760	1,192,939	13,981	759,724
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



A Touchstone Energy® Cooperative 

### CO2 EMISSION REPORTS

This report and previous years reports are available at [www.holycross.com/co2-emissions](http://www.holycross.com/co2-emissions).