



Reduce your carbon footprint with CenterPoint Energy and CleanO2 Carbon Capture.



Background

CenterPoint Energy is committed to identifying and implementing clean energy initiatives that reduce greenhouse gas emissions, make clean energy financially accessible and enhance sustainability through the increased use of renewable energy sources.

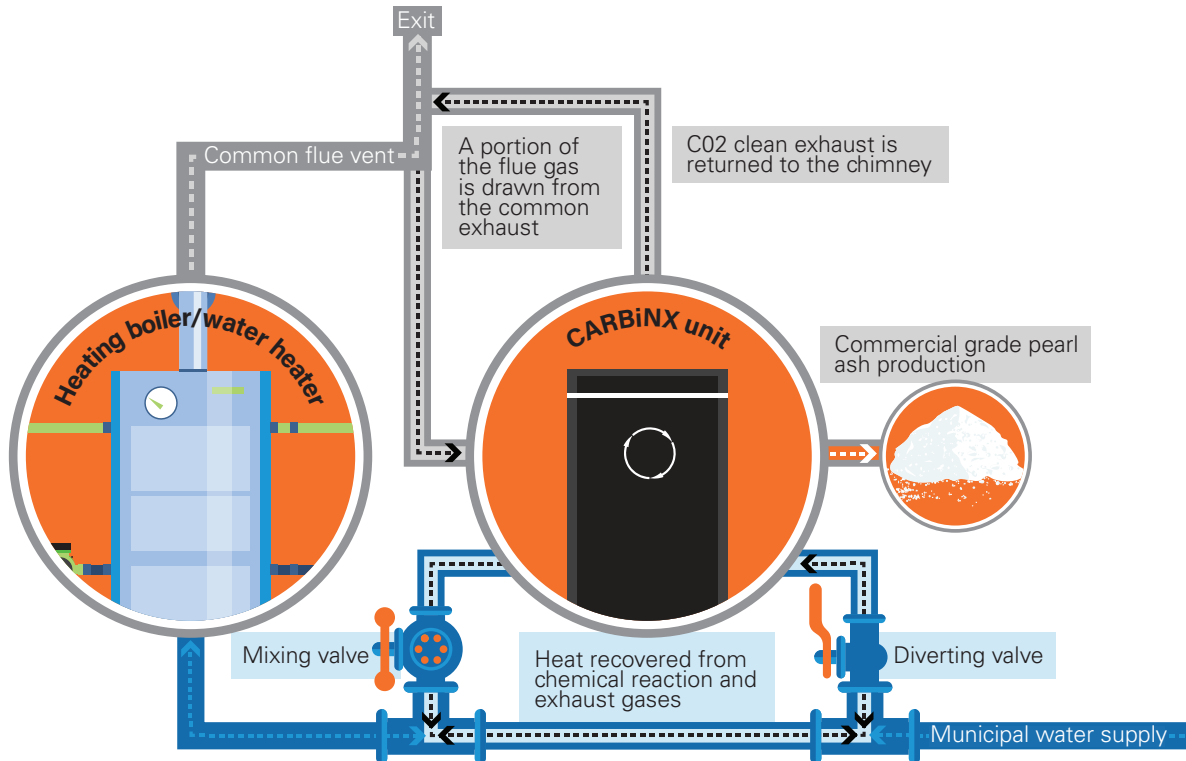
One initiative is the recent implementation of a carbon capture pilot program to monitor and measure energy savings and CO₂ reductions after the installation of a carbon capture device CarbinX™, the brainchild of CleanO2 Carbon Capture Technologies Inc.

Pilot

CenterPoint Energy is working with CleanO2 on a 12-month research pilot in Minnesota to monitor and measure the energy savings and CO₂ reductions that commercial and light industrial companies experience using the CarbinX device. CenterPoint Energy's Conservation Improvement Program is funding the commissioning of this unique technology, the world's first decentralized commercial carbon capture device to lower greenhouse gas emissions in the heating industry. In the US, about 12 percent of greenhouse gas emissions come from businesses and homes when natural gas is used to heat buildings or water.

Technology

CleanO2's CarbinX, which is about the size of two home refrigerators, is the first device built small enough to fit in the mechanical rooms of commercial and light industrial buildings. Systems in these rooms heat the building by consuming natural gas. The resulting CO₂ is passed into the flue vent. A portion of the waste flue gas is diverted into the reaction chamber of the CarbinX unit, where it reacts with a carbon-reduction agent to create pearl ash. The unit also operates as a heat exchanger, using the heat generated from flue gas and the carbon capture process to preheat a building's domestic water supply, saving energy by enabling the boiler and/or water heater to use less natural gas.



Potential benefits

Cost savings: CarbinX technology has been independently verified to decrease energy consumption by up to 20 percent, depending on boiler size and efficiency and hot water consumption. These savings come from the way the device reclaims heat energy produced by the carbon capture reaction and from the hot flue gas. Companies may receive a return on investment within five years through energy savings, preventative maintenance and rebate programs.

Emissions reductions: CleanO2 has indicated that increased energy efficiency, coupled with carbon capture, can reduce CO2 emissions by up to 18,000 pounds annually per unit. To give you an idea of how much that is, 18,000 pounds of CO2 would fill ten 1,250-square-foot, single-story houses.

Carbon upcycling: Each CarbinX device can create up to 5,200 pounds of pearl ash per year, according to CleanO2. This safe and nontoxic byproduct can be used to manufacture a variety of products, including detergents and soaps, agricultural goods and textiles, among others.

For more information

To learn more about CleanO2's carbon capture technology and how businesses are saving money and reducing their CO2 emissions, visit CenterPointEnergy.com/CarbonCapture.



CenterPoint Energy is facilitating this pilot program but is not the supplier, installer or servicer of the equipment and will have no contractual obligations regarding the equipment with any client choosing to participate in the pilot program. CenterPoint Energy makes no claims or endorsements regarding the unit's efficiency or effectiveness.