

The Greening of the Granite State

Concord, NH



The State of New Hampshire made a decision to use biomass to reduce carbon emissions and further its use of renewable energy. RWE Clean Energy was selected to manage a comprehensive energy efficiency project at the Department of Administrative Services campus in Concord.

An automated wood chip system was selected as the primary heat source for the building that houses the Department of Environmental Services/New Hampshire Department of Health and Human Services. The Hurst 250 HP boiler that was installed operates between 110-115 psi and produces 8,600 pph. The biomass system will consume 2,100 pounds of wood chips per hour at maximum output.

The new biomass boiler displaces 422,000 therms of gas that would have been used each year by the previous natural gas heating system. The wood chips burned in the biomass system are supplied by local vendors and delivered by local drivers, enabling New Hampshire to also direct heating dollars back into the local community.

The energy infrastructure upgrades for the entire campus represent a total investment of approximately \$12.7 million, and will be paid for by the estimated \$949,000 in annual energy savings over the project's 20 year term.



ENVIRONMENTAL BENEFITS OF DISPLACED NATURAL GAS

CO₂Offsets: 12,000,000 pounds annually

CO₂Equivalent: 1,052 cars removed from the roads annually

TECHNOLOGY

Hurst Boiler Messersmith Cumbustor/ Furnace Base

SYSTEM SIZE

8.3 MMBtu

Sustainable energy solutions for communities, businesses, schools and other organizations

RWE Clean Energy provide Integrated Energy Solutions that include:

- Energy Services/Energy Efficiency Demand Response
 - e Renewables
- Energy Advisory and Procurement

RWE Clean Energy 100 Summit Lake Drive Valhalla, NY 10595 914.286.7000

RWE Clean Energy, LLC 844.896.2614

*Please note that this project was completed under the name *Consolidated Edison Solutions, Inc.* which was aquired in a stock sale by RWE AG on March 1, 2023, and is now part of RWE Clean Energy.