



Very High Efficiency HVAC

Opportunity to Participate

The ComEd Energy Efficiency Program's Emerging Technologies initiative invests in innovative projects that explore ways to make energy efficiency more accessible, affordable and effective for everyone. One such project is the Institute for Market Transformation's Very High Efficiency HVAC.

This is a technology demonstration project designed to find practical solutions for building owners who want to reduce their energy bills and meet climate commitments. **The project team is currently recruiting for 2021 demonstration sites.**

WHY PARTICIPATE?

Right now, tenants, staff and customers are interested in increased ventilation to feel safer in buildings. With most HVAC systems, this means a tradeoff between fresh air and operating costs. With Very High Efficiency HVAC (VHE HVAC), the system provides 100% highly filtered outside air, improving air quality while also dramatically reducing energy usage.

ENERGY USAGE

VHE HVAC is a systems approach that combines high-efficiency equipment with heat recovery, a dedicated outdoor air system, advanced filtration and airflow segregation that limits the spread of contaminants. Developed by the Northwest Energy Efficiency Alliance, VHE HVAC was tested between 2015 and 2018 in eight rigorously-documented demonstration sites in the Pacific Northwest. The resulting HVAC savings ranged from 48–89% per building site.

CONTACT US

Email vhehvac@imt.org,
call 503-477-0851 or 703-216-4489, or visit
ComEdEmergingTech.com/vheHVAC to learn more.

“There was definitely a noticeable difference—this was a much more comfortable environment. Other people in areas that hadn’t yet been converted kept asking ‘When are we getting our air fixed?’”

Ryan McCormick
Chief Engineer
Oregon Department of Fish & Wildlife

BUILDING TYPE	ENERGY SAVINGS
Airport terminal office	89%
Government district office	73%
Government dorms	77%
Law office	75%
Pizza restaurant	51%
Restaurant	77%
Seattle office	69%
Utility district office	48%

WHAT BUILDINGS ARE ELIGIBLE?

VHE HVAC is a total system replacement. The pilot is open to commercial buildings six stories or less with heating and cooling provided by packaged rooftop or small unitary systems that are at the end of their service life and planning to be replaced. Excellent applications are office, retail, lodging and educational buildings. Multi-family residential buildings with similar characteristics may also be considered for this pilot.

WHAT DO PARTICIPANTS RECEIVE?

Participants will receive generous incentives from ComEd, technical assistance from start to finish, detailed monitoring data and benefits from the system installation, like increased net operating revenue. VHE HVAC also helps ensure compliance with current and planned building regulation, such as building performance standards which have now been passed in four states.

WHAT ARE PARTICIPANTS REQUIRED TO DO?

- » Meet all VHE HVAC technical specifications
- » Provide access to design and installation teams
- » Allow installation of ComEd-provided monitoring equipment
- » Provide pre- and post-installation utility bills, the cost of installation and alternate bids and access to facility maintenance staff and selected tenants for interviews

PARTNERS

The Institute for Market Transformation is partnering with manufacturers Fujitsu and Ventacity Systems to procure the equipment for this pilot program.