

Energy Efficiency for Business

Demand Control Ventilation

Demand Control Ventilation (DCV) can adjust ventilation depending on the number of people in a room. Install DCV and gain instant efficiency.

When you provide fresh air to an empty room, no one benefits. With DCV, your entire facility's ventilation can be adjusted to accommodate the number of people in a particular space. This type of HVAC system adjusts room ventilation based on the presence of CO₂ produced by its occupants – when there is low occupancy, less CO₂ is present, which the DCV detects and then reduces ventilation appropriately.

You can earn an incentive of **\$50 per ton** controlled when you install Demand Control Ventilation. Plus you'll save up to 5 to 20 percent off ventilation costs.

A DCV system can be installed on many existing HVAC systems. The following building types are likely to show the quickest payback:

- Auditoriums
- Convention centers
- Hotels
- Malls
- Movie theaters
- Schools
- Retail stores
- Office buildings

Here's what to expect when you install DCV:

- Easy installation and maintenance
- Low investment
- Reduced need to heat or cool excessive amounts of outside air
- Lower operating costs and energy usage
- Improved room comfort and air quality
- Ability to use on existing electric HVAC systems

Incentive and savings example:

A 10,000-square-foot facility could earn a \$1,900 incentive and save over \$500 per year.*

**HVAC is SEER 9 at 76 F with 38 tons of HVAC.*

Contact your Duke Energy Advisor for further details.

877.372.8477 or fl.bec@duke-energy.com

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Want to get incentives? Here's how:

1. Call Duke Energy for a FREE Business Energy Check.
2. Provide information documenting the DCV system and projected HVAC tonnage reduction.
3. Confirm DCV installation includes sensors that measure CO₂ levels and that ventilation rate is adjusted based on varying occupancy by integrating sensor readings to control outside air dampers.
4. Ensure that DCV is installed in accordance with manufacturer's recommendations, building codes and ASHRAE air exchange standards.
5. Submit all required documentation to your Energy Advisor within six months of project completion or Certificate of Occupancy (New Construction).

Note

Incentive is capped at a maximum of 50 percent of the total project cost.

Other requirements may apply.



EEB Programs at a Glance

Duke Energy has a dedicated team of Energy Advisors ready to help businesses integrate energy-saving systems into both existing and new construction. A comprehensive list of our energy-saving programs is below. Please contact your Duke Energy Advisor to see if you qualify for these money- and energy-saving programs.

Preventive maintenance

- HVAC tuneup
- Rooftop HVAC recommissioning
- Chiller tuneup
- PTAC/PTHP coil cleaning

Roofing measures

- Ceiling insulation upgrade
- Duct check program
- Roof insulation
- Cool roof

Equipment installation

- High-efficiency chillers
- Small heat pumps (<65,000 Btu/h)
- High-efficiency energy recovery ventilation
- Unitary AC units and heat pumps (>65,000 Btu/h)
- Packaged terminal heat pumps and packaged terminal air conditioners
- Demand control ventilation

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