

Variable Frequency Drives (VFDs)

Optimize motor speeds for substantial energy savings

A Variable Frequency Drive (VFD) enables motors to run only as fast as needed, which saves energy and reduces wear on equipment. Motor speeds that can be reduced by 50% can save up to 75% in energy costs, and often much more.



Energy savings

A 10 ton rooftop unit VFD saves on average 6,100 kWh - \$915/year*



Quick payback

3 to 24 months (after rebate)



Better reliability

Reduces equipment wear and associated maintenance costs

Where can VFDs save energy?



Fans

Air handlers	Exhaust fans
Boiler draft fans	Return fans
Cooling tower fans	Rooftop units
Dust collectors	Supply fans



Pumps

Chilled water pump
Hot water pump
Process pumps
Water source heat pump loops

Act now to receive rebates

\$200/HP or \$150/HP

(3-5 HP motor)

(7.5-100 HP motor)

- Enlist an expert to help you identify the best VFD opportunities in your facility and to maximize their efficiency. Proper installation is key to performance.
- Our customer support team and energy consultants can provide technical support or quickly connect you with a building trade professional.

* Savings from a 3hp 10 ton rooftop unit supply fan are 6,100 kWh - \$915 per year at \$0.15/kWh.

** BED Customers are not eligible for this rebate..



To redeem savings

- ✓ Verify product eligibility, offer terms and conditions at:
<https://www.encyvermont.com/vfd-equipment>
- ✓ VFDs must be new and must be controlled by an automatic signal.
- ✓ Purchase and install qualifying product. Complete, sign, and submit application. Include invoice copy as proof of purchase.

Want to save even more?

See more energy saving incentives:
<https://www.encyvermont.com/pumps-motors-drives>

Get started today

Rebate offer subject to change

Call today to
start saving

Efficiency
Vermont

888-921-5990

[encyvermont.com/vfd](https://www.encyvermont.com/vfd)

VFD Application Success Story: Cooling Tower

Summary. Customer installed VFDs on all pumps & fans connected to a cooling tower that rejects heat from a series of water source heat pumps. VFDs allow the fan and pump motors to operate optimally for heat rejection requirements.

Annual Energy Savings: 765,000 kWh • **Simple payback:** 0.6 years

Project Economics.

Estimated Cost of Efficiency Improvements	\$66,225
Efficiency Vermont Incentive	\$13,000
Your Net Cost After Incentives	\$52,255
Estimated First-Year Energy Savings	\$86,849
Estimated Simple Payback Period	0.6 years
Estimated Average Lifetime of Efficiency Improvements	11 years
Estimated Rate of Return on Your Investment (pretax)	166%

VFD Application Success Story: Rooftop Units (RTUs)

Summary. Customer installed RTU controllers (pre-programmed VFDs) on the supply fans in their RTUs and reduced electrical energy by slowing the supply fans down proportional to the stages of cooling.

Annual Energy Savings: 105,000 kWh • **Simple payback:** 0.2 years

Project Economics.

Estimated Cost of Efficiency Improvements	\$16,864
Efficiency Vermont Incentive	\$15,200
Your Net Cost After Incentives	\$1,664
Estimated First-Year Energy Savings	\$9,793
Estimated Simple Payback Period	0.2 years
Estimated Average Lifetime of Efficiency Improvements	15 years
Estimated Rate of Return on Your Investment (pretax)	589%

VFD Application Success Story: Dairy Farm Ventilation Fans

Summary. Customer installed fans with VFDs in their dairy barn to reduce power consumption and unnecessary CFMs during the cooler months.

Annual Energy Savings: 7,836 kWh • **Simple payback:** 0.24 years

Project Economics.

Estimated Cost of Efficiency Improvements	\$965
Efficiency Vermont Incentive	\$640
Your Net Cost After Incentives	\$325
Estimated First-Year Energy Savings	\$1,349
Estimated Simple Payback Period	0.24 years
Estimated Average Lifetime of Efficiency Improvements	15 years
Estimated Rate of Return on Your Investment (pretax)	200%