

Motor Efficiency

MAC WALKS AWAY WITH SAVINGS AND WITH NEW MOTOR EFFICIENCY REBATES



Efficiency is the golden rule at the Minneapolis-St. Paul International Airport. Whether it's getting travelers through security more quickly, maintaining convenient on-site parking or ensuring energy efficiency solutions for airport equipment, the Metropolitan Airports Commission (MAC) has a reputation for finding new ways to do more using less.

A Path to Savings

With a test installation scheduled for a motorized walkway and an escalator, the MAC partnered with Xcel Energy to test the performance of their equipment, using a new technology delivering the most effective use of constant speed energy to date, while qualifying for new energy rebates from Xcel Energy.

One walkway and one escalator in Terminal 1 (Lindbergh Terminal), which run at a constant speed, were retrofitted using a unique electronic power device—a system that provides energy savings during motor operation based on passenger load without interfering with the motor speed.

While both the walkway and the escalator are estimated to bring significant savings in energy consumption, the technology qualified for the new [Constant Speed Motor Controller](#) rebate from Xcel Energy.

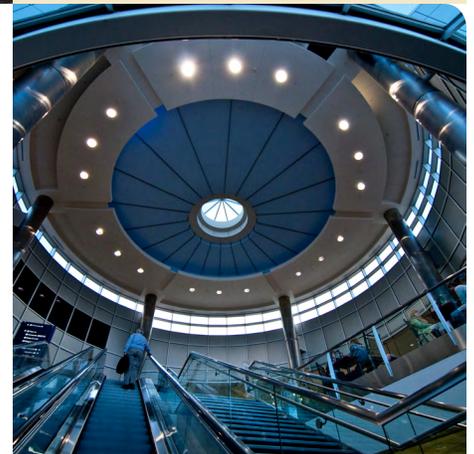
Committing to Energy Efficiency

Implementing new solutions for energy savings and rebates through Xcel Energy programs has given the MAC a focused perspective on efficiency. According to MAC Energy Conservation Program Manager, Dennis Kowalke, the recent walkway upgrades were another example of the airport's commitment to energy savings.

Find out how efficiency rebates can help your business

Call your account manager or our Business Solutions Center at **1-855-839-8862** for more information or visit xcelenergy.com/MotorEfficiency.

Photos by Ted Salzman



THE RESULT OF MAC'S ENERGY EFFICIENCY EFFORTS

- Energy Savings: 9,364 kWh
- Xcel Energy Rebates: \$428
- Estimated Annual Energy Cost Savings: \$443

ADDITIONAL IMPACTS

- Extended life expectancy of motor components
- Decreased stress on mechanical systems
- Measurable results in just months
- Improved Power Factor

"The timing could not have been better," said Kowalke. "Our Energy Conservation Program is always looking for new ways to save energy. Our partners, Michaud Cooley Erickson Consulting Engineers and VDA Associates recommended a new rebate offering for constant speed motor controllers. We listened and it has paid off and will continue to pay off."

A Short-Term Investment for Long-Term Savings

Named after the NASA engineer Frank Nola, who invented the technology, a NOLA device is a type of motor starter/controller for AC motors that uses unique algorithms to provide energy savings during motor operation without interfering with the motor's speed. While the NOLA power devices are a slight premium over standard efficiency equipment, the long-term savings is well worth the short-term investment, according to Kowalke.

"We were confident that the instant rebates and long-term energy savings would greatly reduce the overall cost of the project by making the investment on the front end," said Kowalke. "Not only are we reducing the amount of energy used to operate the walkways, we're providing our travelers with a system that requires less maintenance and fewer malfunctions. Customer satisfaction, at the end of the day, is our number one goal."

The new technology fits well with the MAC's Stewards of Tomorrow's Airport Resources (STAR) program, which is focused on improving the airport's sustainability, energy conservation initiatives and overall environmental blueprint. Due to the success of the partnership and the NOLA technology, MAC plans to make the new equipment a standard for future moving walk and escalator installations.

Energy Efficiency Rebate Program Overview

Xcel Energy offers a variety of energy-saving solutions that can help your business make decisions that not only meet your business goals, but deliver energy efficiency solutions designed to keep your business running at peak performance.

With our energy efficiency programs, businesses can earn rebates on almost any equipment or process improvement that leads to energy savings.

It's that easy, and the Motors/Variable Frequency Drive program is just one of many ways Xcel Energy is working with Minnesota businesses to ensure choosing efficiency is one of the easiest and most environmentally-friendly decisions they can make.

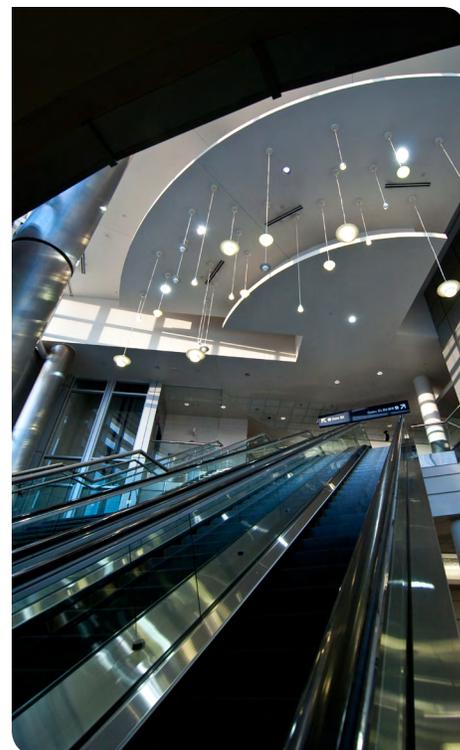


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