

CUSTOM EFFICIENCY



NEW TECHNOLOGY HELPS FROZEN FOOD WAREHOUSE ROLL UP BIG ENERGY SAVINGS

Frozen Assets

Arctic Cold Storage, located in St. Cloud, Minn., is a family owned business that stores meat, poultry, packaged foods and raw materials for food processing. With more than 5.5 million cubic feet of temperature-controlled warehouse space, energy consumption plays a significant roll in day-to-day business.

After constructing a new 80,000 sq. ft. facility in 2003, the company used a number of different methods to keep its refrigeration systems running at peak performance, including an “air curtain” for one of its forklift service passages. Although the air curtain provided a substantial improvement in energy efficiency and safety, the company believed it could achieve even greater results. When additional service doors needed updating inside the warehouse, they began looking at alternatives.

The Solution

According to Jay Condon, Arctic Cold Storage general manager, he began seeing “roll door” technology used at a few of his customer’s facilities. “Initially, we weren’t familiar with the new technology, but we could see it would be a good fit for our specific needs.”

After researching the product, Arctic Cold Storage chose an advanced high-speed roll door with operating speeds of more than eight feet per second. The door’s speed allows instant and unlimited access for forklifts and other equipment into the freezer. The door also offers a variety of safety features, including large, clear vision windows and soft edge technology.

Above all, the new roll door provides a significant reduction in energy use. The door’s air seal provides an insulated barrier between the freezer temperatures and the door tracks, minimizing frost and ice build-up, not only adding to efficiency but also promoting safety.

“The new roll door was an ideal fit for our specific needs,” said Condon. “But what made the decision to install the roll door even easier was the Custom Efficiency rebate from Xcel Energy. We saved nearly \$10,000 on the door and installation, and expect a payback on our investment in less than two years.”



FINANCIAL SUMMARY

Total Project Cost:	\$16,965
Xcel Energy Rebate:	\$8,300
Annual Demand Savings (estimated):	50 kW
Annual Energy Savings (estimated):	110,000 kWh
Customer Simple Payback (estimated):	1.1 years
Total Annual Electricity Savings (estimated):	\$8,130

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The Result

Arctic Cold Storage installed one roll door in its storage facility and is in the process of installing another. Condon estimates the new roll door has already been activated more than 25,000 times in just a short time, and the benefits are easy to see.

“We have seen greater efficiency in our day-to-day operation. We don’t have to concern ourselves with cloudy strip curtains, and we’re able to better maintain temperatures using less energy,” said Condon. “And with the roll door, we no longer have to worry about down-time or unnecessary energy use.”

Don’t Get Left Out In The Cold

If you’re considering equipment upgrades or process improvements, contact Xcel Energy today. Custom Efficiency rebates can help you achieve your energy saving goals.

All Custom Efficiency projects require preapproval before equipment purchase or installation. Contact your account manager or our **Business Solutions Center** at **1-800-481-4700** for more information. Or visit www.xcelenergy.com/rebates to learn more about Custom Efficiency and other conservation programs.



With Custom Efficiency from Xcel Energy, businesses can earn rebates on almost any equipment or process improvement that leads to energy savings. It’s that easy, and 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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