

CASE STUDY

Kreider Farms

PPL Electric Utilities
Business Energy Efficiency Program

Project Overview

PPL Electric Utilities provided Kreider Farms with \$31,433 in rebates toward variable frequency drives ventilation fans and LEDs that are estimated to save 452,475 kWh annually.

BY THE NUMBERS

\$31,433

Rebates paid

452,475

Annual kWh savings

\$36,198

Estimated annual savings

1.6 years

Payback period

The opportunity

Kreider Farms, an egg and dairy farm in Manheim, Pennsylvania, was constructing several new, state-of-the-art laying hen facilities. After an initial energy assessment from PPL's Business Energy Efficiency Program identified energy-saving opportunities and available rebates, Kreider decided to retrofit their existing facilities as well.

The project

The new facilities were equipped with high-efficiency ventilation fans featuring advanced climate controls and variable frequency drives. By tracking temperatures throughout the facility, the ventilation system automatically adjusts fan speeds to maintain the desired temperature and indoor air quality. Kreider also upgraded the lighting at their existing facilities from CFLs to more energy-efficient LEDs.

The results

The upgrades are estimated to lower Kreider Farms' annual energy use by 452,475 kWh, saving them \$36,198 a year. Thanks to an additional \$31,433 in rebates from PPL Electric Utilities, the project is expected to pay for itself in just 1.6 years. In addition to the cost savings, the upgrades improved comfort, safety and productivity at each facility.



Annual savings equal to greenhouse gas emissions from:



762,109

miles driven by an average passenger vehicle



101

tons of waste



67.2

passenger vehicles driven for one year



14.4

garbage trucks of waste

Source: U.S. Environmental Protection Agency



Questions?

Visit pplelectric.com/businessrebates or call us at **1-866-432-5501** to learn how your business or organization can save.

The annual savings are calculated based on the cost of energy at \$0.055/kWh. The costs of energy efficiency programs are recovered through customer rates in accordance with Pennsylvania Act 129 of 2008. PPL Electric Utilities assumes no responsibility for the performance of the equipment or equipment warranty, the quality of the work, labor and/or materials supplied, and/or the acts or omissions of any contractor.



PPL Electric Utilities