



FOCUS ON VENTILATION RETROFITS

Dallman East River Dairy located in eastern Wisconsin is a 2,100 cow operation. In 2012, the farm was experiencing milk production issues due to the stress on the cows caused by the summer heat. While their naturally ventilated free stall barns were equipped with side wall curtains, an open ridge, and circulation fans, production was dropping nearly five lbs per cow a day during summer months.

The Solution

Dallmann East River Dairy expanded their operation in 2012 by increasing herd size. To account for this growth, they constructed their first tunnel ventilated barn. It was so successful in keeping the new cows comfortable, they decided to retrofit their existing natural ventilated barns with tunnel ventilation. The Dallmanns partnered with a Focus on Energy Trade Ally to identify an energy-efficient exhaust fan for this retrofit, and were able to receive FOCUS ON ENERGY® incentives to reduce the upfront cost of purchase and installation.

The Dallmanns retrofitted their final barn in early 2016. They accomplished this by:

- Sealing the open ridge and three side-walls with poly-carbonate.
- Removing all unnecessary circulation fans.
- Installing large, energy efficient exhaust fans to pull air from one end of the barn to the other.

The tunnel ventilated barn maintains a seven to eight mile per hour wind through the barn helping to reduce bugs and keep the cows cool, improving cow comfort, and increasing milk production. Focus on Energy provided \$22,364 in incentives to aid in the installation of energy-efficient exhaust fans.

REDUCING ENERGY WASTE ACROSS WISCONSIN

Focus on Energy, Wisconsin utilities' statewide program for energy efficiency and renewable energy, helps eligible residents and businesses save energy and money while protecting the environment. Focus on Energy information, resources, and financial incentives help to implement energy efficiency and renewable energy projects that otherwise would not be completed.

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Project Breakdown:

- **Equipment Installed:**
197 ventilation fans ranging from 50"-60" in two barns
- **Annual Energy Savings:**
233,725 kWh and 56 kW
- **Focus on Energy Incentive:**
\$22,364
- **Payback:**
Two Years*

*Payback calculated based on annual energy savings and recovered milk production during summer months.



Milk production and reproduction have increased since the retrofits. Focus on Energy incentives are helpful to reduce the up front cost of these retrofits.



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focus on energy®

Partnering with Wisconsin utilities