



Eight HVLS fans displace
3,014,432 cubic feet

of air per minute

174,313 kWh

energy savings

FANS KEEP COWS COOL, AND COOL COWS GIVE MORE MILK

Kie Farms

St. Mary's, Ontario

- **Installed energy-efficient fans to keep their cows cool during hot summer months**

HVLS Fans

Eight 24-foot, 6-blade high-volume low-speed (HVLS) fans were installed

Verified Savings

Demand savings:
60.3 kW

Energy savings:
174,313 kWh

Incentives

\$21,101 under the **High Performance New Construction** program





At Kie Farms in St. Mary's, they milk over 440 cows and produce approximately 5.5 million litres of milk a year. They have five barns in all: three dairy barns, a heifer barn and a calf barn.

Dirk and Erica Kiestra, together with Dirk's parents, manage the family farm. Dairy farmers know that keeping their cows content pays off. Erica said, "Cows like to be cool. When they get hot, they produce less milk. Our barns are all ventilated, and we wanted to add fans to improve air flow and temperature control in the summer."

Installer Recommended Energy-efficient HVLS Fans

"Our installer helped us choose the energy-efficient HVLS fans. He also helped with the incentive application process. We're very pleased with both the fans and the incentive," said Erica.

The Benefits of HVLS Fans

- On average, an HVLS fan is 18% more energy efficient than a high-speed basket fan
- Test cases show that 17 HVLS fans can do the job of 100 high-speed fans
- Each HVLS fan cools a much larger area for more consistent ventilation control

At Kie Farms, a total of eight 24-foot, 6-blade HVLS fans were installed in their new dairy barn. Incentives were based on air displacement of \$7 per 1,000 cubic feet per minute (CFM). The eight fans displace 3,014,432 CFM for an incentive of \$21,101 under the **High Performance New Construction** program.

SOLUTIONS TO HELP YOU BECOME MORE ENERGY EFFICIENT

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- energy audits
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- equipment retrofits
- chilled water system upgrades
- process and systems upgrades
- energy managers
- major renovations and new construction
- and more

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