

VILLAGE OF JACKSON CENTER



JACKSON CENTER, OHIO Efficient Motor Controls Project

The Village of Jackson Center, with a population of about 1,400, is located in Shelby County. While Jackson Center continues to see residential and commercial growth, the village continues to preserve its small town feel.

PROJECT GOALS:

Reduce the energy consumption of the village's wastewater treatment plant (WWTP).

SOLUTION:

Install variable frequency drives (VFDs) in the plant's aeration process blowers.

PROJECT SUMMARY:

In 2013, the Village of Jackson Center worked with Efficiency Smart to increase the energy efficiency of its WWTP. The Village installed two VFDs on 15-horsepower motors in the oxidation ditch blowers, which regulate the speed of the motors by meeting the flow within the system rather than running continuously.

Efficiency Smart worked with the Village of Jackson Center to review the project designs and verify the savings potential. As a result of the efficient controls project, the WWTP runs more efficiently, lowering electric costs for the Village.

“Our WWTP had too much oxygen introduced to our treatment process, increasing electric usage. The WWTP staff worked with Efficiency Smart to install VFD units on the aerators, saving the Village on unnecessary electric cost while improving the treatment process.”

–Bruce Metz

Village Administrator, Village of Jackson Center



PROJECT FACTS AT A GLANCE

Annual kWh Savings:
19,200

Annual Cost Savings:
\$1,800

Lifetime Cost Savings:
\$17,900

Simple Payback:
2.19 years

Annual CO₂ Reduction:
38,200 pounds

PROJECT PARTNERS

Bruce Metz
Village Administrator
Village of Jackson Center

Kevin Sailor
Water/Wastewater Superintendent
Village of Jackson Center