

WADSWORTH CITY SCHOOLS



WADSWORTH, OHIO New Construction Project

Wadsworth City Schools (WCS) is a public school system located in northeast Ohio, comprised of one high school, one middle school, one intermediate school, and five elementary schools. WCS, with a total enrollment of 4,860 students, is a “triple – A district”, emphasizing academics, athletics and the arts. WCS’ focus is to produce well-rounded students who are prepared for the challenges of the 21st Century.

PROJECT GOALS: Construct four new school buildings designed to Leadership in Energy and Environmental Design (LEED) silver standards.

SOLUTION: Incorporate energy efficiency measures into the construction of a new high school and three new elementary schools, including a geothermal heat pump system, a fully automated building management system, and high-efficiency lighting.

PROJECT SUMMARY:

When planning for the construction of four new schools, WCS strived to include energy-efficient technologies into the design plans of each school. WCS worked closely with Efficiency Smart, enlisting the help of one of its energy consultants to review construction designs and to validate the energy saving estimates for the new schools.

The projects included the installation of more than:

- 300 light-emitting diode (LED) exit signs
- 300 occupancy sensors
- 50 variable frequency drive (VFD) control motors
- 100 high-efficiency heat pumps
- 40 high-efficiency motors

As a result of the installed items, WCS ensured that its school buildings will utilize energy-efficient technologies that will save money today and into the future. Additionally, the installed measures will provide a more comfortable environment for students to learn and excel.



PROJECT FACTS AT A GLANCE

- Annual kWh Savings:** 1,936,000 (combined)
- Annual Cost Savings:** \$157,364 (combined)
- Lifetime Cost Savings:** \$2,094,000 (combined)
- Payback:** 3.5 years (average)
- Annual CO₂ Reduction:** 3,731,000 pounds (combined)

PROJECT PARTNERS

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|---|---|
| Joseph Magnacca,
Director of Facilities,
Wadsworth City Schools | Robin Laubaugh,
Mayor, City of
Wadsworth |
| Eric Risinger, Lead
Architect, Risinger +
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of Public Service,
City of Wadsworth |
| Robert Hart, Project
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International, Inc. | Harry Stark, Assistant
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Wadsworth |
| David Shirey, Sr. Project
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