

Bowling Green R-I Phase 1-5

Bowling Green, MO

PROJECT SAVINGS

743,070



Miles driven by an
average passenger
vehicle

102



TONS of waste
recycled instead of
landfilled

355



Acres of US pine
forest sequestered
in one year

DECARBONIZATION

Combined Project Cost:
\$18,904,918

Type: Guaranteed
Performance Contract

Combined Guaranteed Annual
Savings:
Energy: \$49,000
Operational: \$598,922

Term: 15-Year Terms

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Superintendent
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708 West Adams
Bowling Green, MO 63334



Renovation of one of the restrooms
at the Elementary School

PROJECT OVERVIEW

Bowling Green R-I School District serves PK-12 with 1,350 students and four schools. The District partnered with Veregy to address much-needed facility renovations including poor indoor air quality (IAQ), comfort issues, excessive energy costs, and deferred maintenance. In Phase 1, the District, using performance contracting, was guaranteed by Veregy to reduce their annual energy expenditures by \$21,148.

Due to the great success of Phase 1, Bowling Green partnered with Veregy for Phase 2 needing additional infrastructure and energy efficient upgrades, but also needing security enhancements and renovation of restrooms. Veregy's strong partnership with Bowling Green has continued with a total of five phases.

PROJECT HIGHLIGHTS – Phases 1 -2

Phase 1: HVAC, BAS, Roofing, Windows

- } Replaced older HVAC units with energy efficient models in all the school buildings
- } New Building Automation System (BAS) providing high performance and control strategies for each HVAC system. It also improved the indoor air quality while reducing energy consumption and costs.
- } New EPDM roofing membrane with insulation was installed at most school building locations.
- } 34 windows were replaced where air conditioning units were installed.

Phase 2: Secure Entrances, Classroom Security, Lighting, Renovations

- } Entrances were enhanced with secure doors and access controls
- } New windows were installed with 2" depth and insulated glass
- } Restroom renovations
- } Energy efficient LED interior and exterior lighting upgrades
- } Renovation of the High School auditorium

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Bowling Green R-1 Phase 1-5

Bowling Green, MO



< Classroom security was enhanced with solid core wood doors and security locks.



< New aluminum windows were installed with 2" depth and insulated glass.

PROJECT HIGHLIGHTS – Phases 3-5

Bowling Green R-1 continued to work with Veregy on infrastructure. Phases 3 and 4 focused on HVAC upgrades as well as restroom renovations. These infrastructure improvements provide \$49,000 annual savings in energy.

In Phase 5 Bowling Green expanded their district with new additions: the Early Childhood Center, the District's Library Media expansion and Admin Office, and a secure entrance addition to the Middle School.

Phase 3: HVAC

- } Replaced 15 HVAC roof-top systems at the Middle School with modern, energy efficient models
- } Installed Honeywell's N4 platform for Building Automation

Phase 4: HVAC, Restroom Renovation

- } Replaced 10 HVAC systems in the Mezzanine
- } Replaced 12 floor mounted ventilators with new split systems at the Elementary Wing
- } Eight restroom renovations at the High/Middle Schools

Phase 5: Early Childhood Center, Library Media, Secure Entrance Addition to Middle School

- } 860 sq ft secure entrance addition to the Middle School with an ADA ramp and connecting staircase to the drive.
- } 7,630 sq ft Library Media & Admin addition with a board room that is an ICC 500 storm shelter rated for 275 occupants.
- } 10,600 sq ft Early Childhood Center with a multipurpose room that is an ICC 500 storm shelter for 183 occupants.

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