

# Ida Public Schools

## Energy Project

Ida, MI



Geothermal



HVAC



Building Envelope



Contract Amount: \$  
\$8,494,224

1st Year Guaranteed  
Energy & Operations  
Savings: \$298,460

Estimated Inflation  
Reduction Act Tax Credit:  
\$2,855,808

Anticipated Completion  
Year: 2024

Geothermal Test Well Drilling



### PROJECT OVERVIEW

Ida Public Schools partnered with Veregy to replace aged equipment and enhance learning environments through a geothermal-focused energy project. Ida's 49-year-old boilers and inefficient air handling equipment were beyond their life expectancy and were likely to fail at any time. Waiting for the equipment to fail on its own was likely to force emergency school closings and displacement of students during the cold winter months. Veregy developed a geothermal solution to replace their existing equipment and add air conditioning to the High School and Middle School facilities without increasing the district's utility costs. Ida is uniquely positioned to receive direct pay Inflation Reduction Act tax credits to replace these costly systems at an estimated 40% discount, reducing the financial burden on taxpayers.

### PROJECT HIGHLIGHTS

- Replace HVAC system with new geothermal system at the high school and middle school including the following:
  - Vertical bore geothermal field sized to offset the heating/cooling load (one-hundred-eight (108) 300' bores at the high school and sixty-four (64) 300' bores at the middle school)
  - Water source heat pump systems
  - Energy recovery ventilators to provide outdoor airflow
  - 199 KBTU condensing boilers
  - Variable frequency drive-controlled loop pumps
  - Add air conditioning to create more comfortable learning environments
- Weatherize high school/middle school building envelopes including:
  - Replacement of door sweeps
  - Replacement of weather stripping around door openings
  - Sealant around the deteriorated building penetrations
  - Sealant of roof/wall intersection where insulation is missing or inadequate
- Install backup generators to power critical HVAC equipment
- Install new supervisory control system and integrate new HVAC equipment into control system

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