

Branson R-IV Phase 1-5

Branson, MO

PROJECT SAVINGS

759,409



Miles driven by an average passenger vehicle

110



TONS of waste recycled instead of landfilled

371



Acres of US pine forest sequestered in one year

DECARBONIZATION



Combined Project Cost:
\$19,195,108

Type: Guaranteed Performance Contract

IRA Geothermal ITC Rebates:
\$4,093,183

Combined Annual Savings:
Energy: \$49,632
Operational: \$9,547,232

Term: 15-Year Terms

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Superintendent
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Branson, MO 65616



Renovation of the front offices of Cedar Ridge Primary School.

PROJECT OVERVIEW

Branson R-IV School District is a highly rated District with 4,800 students in grades Pre-K through High School. Due to the age of the facilities throughout the District, they were in need of upgrades to reduce maintenance costs and increase reliability. The District looked to Veregy to develop Facilities Master Plans that would save taxpayer dollars and create learning environments that can be enjoyed for many years to come.

This long-term partnership began in 2015 with the first project and continues bringing facility and infrastructure improvements to learning environments while greatly reducing energy and operational costs for the taxpayers. To date the Veregy projects have also received over \$4 million in IRA tax credits from the Federal government for geothermal renewable energy improvements.

PROJECT HIGHLIGHTS

Phase 1:

- Furnished and installed new 60 mil TPO sheet roofing system
- Replaced heating and cooling rooftop units
- Installed Building Automation System (BAS)
- Furnished new windows

Phase 2:

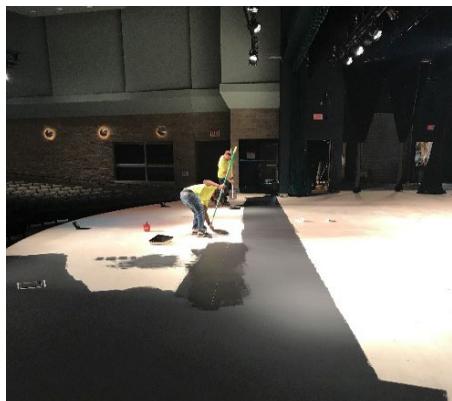
- Added controller to each heat pump at the High School
- Renovated Primary School office area
- Renovated classrooms
- Replaced High School stage floor

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Windows were replaced, as needed, in several schools.



An upgraded stage floor was installed at the high school.

PHASES 3, 4, and 5 OVERVIEW

The success of the HVAC system replacement at the High School led to new systems at Cedar Ridge Elementary, Intermediate, and Primary Schools. This included a Building Automation System for all schools.

In Phase 4, Veregy increased energy efficiency of the HVAC system by installing 26 supplemental geothermal wells. They also retrofitted over 200 lighting fixtures with LED replacements. In Phase 5, Veregy continued the energy efficiency upgrades with annual operational cost savings of over \$8 million for this phase.

Phase 3:

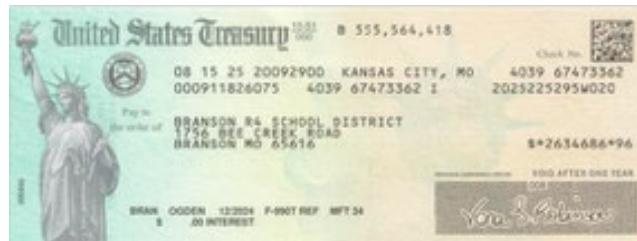
- Replaced HVAC system with modern, energy efficient models
- Installed Building Automation System (BAS)

Phase 4:

- **IRA Geothermal Investment Tax Credits: \$1,458,496**
- Veregy's geothermal system modifications resulted in increased **annual savings by an additional \$118,901**
 - Cedar Ridge Intermediate = \$26,225 / 24.2% savings
 - Cedar Ridge Elementary = \$32,556 / 29.6% savings
 - Cedar Ridge Primary = \$60,120 / 40% savings
- Over 200 LED lighting retrofits were installed at Cedar Ridge Primary, Elementary, and Intermediate
- New ceiling tiles in hallways, kitchen, and cafeteria
- 26 supplemental geothermal well fields were installed

Phase 5:

- **IRA Geothermal Investment Tax Credits: \$2,634,686**
- Replaced all of the roof top H/AC equipment at the High School with modern, energy efficient models
- Installed 140 geothermal wells to connect to HS loop
- Extended Building Automation System (BAS) at the HS



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