

ZUNI PUBLIC SCHOOLS

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RENEWABLE GROUND SOURCE ENERGY

CORPORATE HISTORY: Energy Control Inc. (ECI) is a premier provider of building technologies for energy and cost savings since 1976. ECI is an expert in financing & installation of energy efficiency projects focusing on direct digital control, lighting, heating, ventilation, air conditioning (HVAC) and renewable energy.



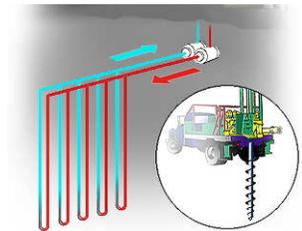
PROJECT HISTORY: Zuni Public Schools had a number of challenges in providing a quality, learning environment at the Middle School, which was built over multiple phases spanning more than thirty years. The end result was a critical need to upgrade the heating and air conditioning systems. Energy Control Inc. (ECI) was called in to aid the district with the project including energy & environmental analyses and system installation.

ENERGY SOLUTIONS: ECI provided design analysis to identify cost-effective solutions to control energy costs and insure building comfort. ECI also assisted the district with an environmental analysis required for the Native American Indian Reservation. ECI provided extensive interaction and technical support in dealing with both environmental reporting and cultural interface with the tribe.

Project Vision: Improve Environments by optimizing lighting and comfort, with Ground Source Heat Pumps, while generating utility consumption and costs savings.

GROUND-SOURCE HEAT PUMPS: These heat pumps require minimal electrical power to operate. In the winter, the heat pump provides heat to the building. In the summer, the process is reversed, and the heat pump removes the heat. The heat removed from the space in the summer can also be used to heat water.

Underground pipes move liquid to and from the building.



Zuni Middle School Bore field

DESIGN/BUILD SOLUTIONS: ECI is a certified installer with the International Ground Source Heat Pump Association.



TECHNOLOGY SOLUTIONS

- Ground-source Heat Pumps
- Individual Teacher Climate Control
- Internet-Monitored Control System
- Service & Support All Systems

BENEFITS

- \$1,400,000 in Capital Improvement
- Cost Savings through Energy Efficiency
- Reduced Mechanical Failures
- Lower Maintenance Costs



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Using technology to improve the use of energy and create a better environment