

Regional GeoExchange Energy Efficiency Project

The Regional GeoExchange Energy Efficiency Project (RGEEP) is a community scale project to reduce the carbon footprint of a Sonoma County business park to near zero-net energy use. The backbone of the project is a geexchange heat pump system running through the park, using water provided from a local waste water treatment plant to provide building heating and cooling offsets. The balance of the buildings' energy use throughout the park can then be reduced through a combination of energy efficiency measures, such as lighting retrofits, and renewable energy sources such as solar and fuel cell electricity production. This project, which covers 500 acres, is intended to be a demonstration project, providing a template of how to dramatically reduce community energy use throughout the country. RGEEP is part of Sonoma County Water Agency's goal of producing Carbon Free Water by 2015.

Local Partnerships

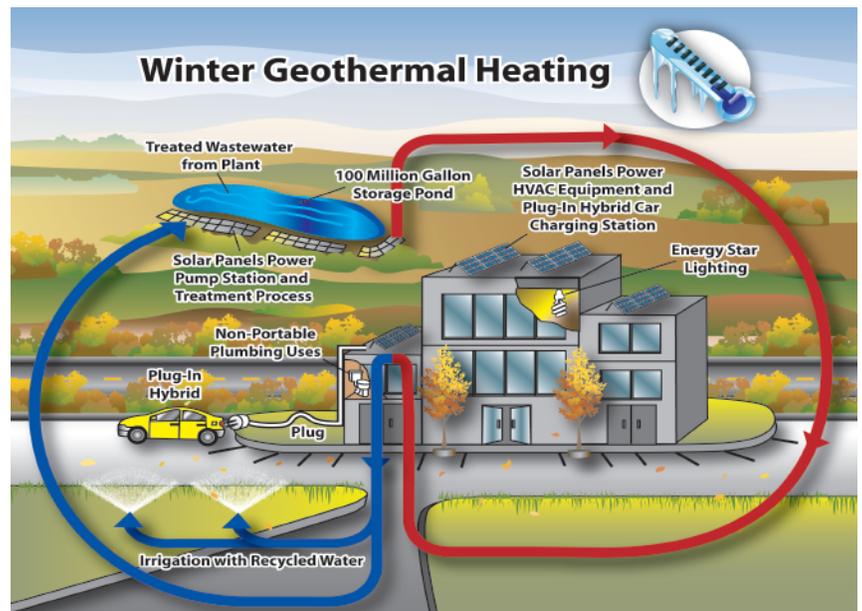
Local business partnerships have been an integral part of this project. The Sonoma County Water Agency (SCWA) hosts 2 to 3 meetings annual for business property owners to come together to hear updates and exchange ideas about the project. SCWA has developed an established professional relationship with a few key property owners known as the Airport Green Business Community. With their help, public outreach efforts in the Airport Business Center have been successful in bringing other property owners to meetings and keeping the channels of communications open and utilized on a regular basis. Through established partnerships with the local property owners, SCWA has built trust-based relationships with key stakeholders.

Have Questions?

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GeoExchange Energy Efficiency
Program

Recycled Water, Reduced Energy

Through a network of recycled water piping, water from the Airport-Wikiup-Larkfield Treatment Plant will cycle through connected buildings in the Airport Business Center. Through this cycle, the water will cool the buildings during the summer and heat them during the winter through geothermal exchange. Additionally, recycled water from the treatment plant will be used to irrigate landscapes in the Airport Business Center to offset the use of potable water.



Project Type: GeoExchange, Energy & Water Efficiency, Renewable Energy Generation
Heat Transfer Mechanism: Wastewater from Airport-Wikiup-Larkfield Treatment Plant
Note: Connection to Geexchange Piping Network is Optional for Buildings
Project Location: Airport Business Center, Santa Rosa, California
Location Description: Diverse Use - Industrial, Commercial, Educational, Airport
Project Area: Approximately 500 Acres
Estimated Population Served: 3,000
Estimated Project Cost: TBD Based on Feasibility Study
Project Status: Feasibility Study Phase

Carbon
Free
Water
by
2015