

Manley Hot Springs Geothermal Plant

Grantees	TDX Power, Inc. (Independent Power Producer)
Technology Type	GEOTHERMAL
Region	Yukon-Koyukuk/Upper Tanana
AEDG Project Code	10152

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
0	-112	Manley Hot Springs Geothermal Plant	2195421	406006	Feasibility	8/20/08	12/31/11	Closed

Grant 2195421: Manley Hot Springs Geothermal Plant

Project Scope: TDX Power began the project using their own funds and was awarded grant funds to complete the following.

Perform Aeromagnetic Survey to define the subsurface contact between the granitic rock and sedimentary rock of the Manley area. Acquire Local Well Information as there are numerous undocumented wells in the area. This information is an important part of the evaluation of any geothermal resource. RaMPS Survey (Resistivity Monopole Profiling and Sounding) will be completed to better understand the geologic structure (its location, orientation, and extent) and where geothermal water exists. Determine next steps based on surveys; depending on findings, TDX Power in consultation with AEA, UAF and industry experts will determine viability of the proposed project. Based on determinations, project will either proceed or be abandoned. Powerhouse Upgrade and Integration Design to be completed if project is determined to be viable. Construction of pre-packaged geothermal heat conversion and continuous electric generating system for one 200 kW unit.

TDX Power, as owner of the new regulated electric utility at Manley, planned to own, operate, and maintain the Manley Geothermal Project over its expected useful lifetime. The project was intended to provide electric energy to residential and commercial electric customers in Manley, from proven geothermal generating equipment utilizing geothermal resources.

Project Status: TDX elected in 2010 to not proceed with the project. In 2008 and 2009 TDX Power conducted geological and geophysical explorations around Manley Hot Springs to determine the best potential well site for a geothermal power plant for the community of Manley Hot Springs. After geophysical exploration activities of 2009, TDX Power decided not to commit the necessary matching funds to drill an exploration well. The grant was closed as of December 31, 2010.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$27,876.00	\$27,876.00
Other State Funding	\$94,001.00	\$94,001.00
Total State	\$27,876.00	\$27,876.00
Required Local Match	\$705,000.00	\$91,407.00
Federal Grant Funding	\$94,001.00	\$94,001.00
Total Project Costs	\$826,877.00	\$213,284.00