

## North Pole Heat Recovery

**Grantees** Golden Valley Electric Association (Utility-Cooperative)  
**Technology Type** HEAT RECOVERY  
**Region** Railbelt  
**AEDG Project Code** 10101

### REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
1	105	North Pole Heat Recovery Construction	2195391	403029	Construction	3/25/09	11/30/10	Closed

### Grant 2195391: North Pole Heat Recovery Construction

**Project Scope:** The project is to install a waste heat recovery system that would replace 15 existing electric unit heaters totaling 1/2 MW. Golden Valley Electric Association's (GVEA) North Pole Expansion Plant (NPEP) Waste Heat Recovery Project consists of installing 520' of underground supply and return piping, a glycol distribution piping system inside NPEP, installing 12 glycol unit heaters with Variable Frequency Drives (VFDs), and Heating, Ventilation and Air Conditioning (HVAC) controls. GVEA will manage and administer the project, perform the electrical / control installation, commissioning, and startup of the system. The mechanical portion of the work will be performed by a mechanical contractor. Electric power conservation/fuel savings will benefit all of GVEA's 33,000 members from Cantwell to Delta Junction.

**Project Status:** This project is complete and the grant is closed.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$817,291.63	\$817,291.63
Other State Funding	\$0.00	\$0.00
<b>Total State</b>	<b>\$817,291.63</b>	<b>\$817,291.63</b>
Required Local Match	\$204,322.90	\$204,322.90
Federal Grant Funding	\$0.00	\$0.00
<b>Total Project Costs</b>	<b>\$1,021,614.53</b>	<b>\$1,021,614.53</b>