GVEA Eva Creek Wind Turbine Purchase

Grantees	Golden Valley Electric Association (Utility-Cooperative)
Technology Type	WIND
Region	Railbelt
AEDG Project Code	10104

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
1	109	Eva Creek Wind Farm Feasibility	2195425	410044	Feasibility	8/20/08	6/30/12	Closed
4	616	GVEA Eva Creek Wind Turbine Purchase	7040031	410044	Construction	7/1/11	3/31/14	Closed

Grant 2195425: Eva Creek Wind Farm Feasibility

Project Scope: Golden Valley Electric Association (GVEA) originally proposed feasibility, design, and construction of a 24 MW wind farm in the Healy area and requested $79 million in grant funding. AEA recommended $2.53 million for feasibility assessment, but the project was capped at $2 million.

Project Status: The grant agreement is in place. Detailed final design plans are being developed to address site access and equipment/material staging. The two minute wind analysis and geotech report was submitted to AEA on July 16, 2010. Geotech drilling was completed for substation foundation. Energy Yield Assessment was done for GE, Clipper, Siemens and REPower wind turbines. Field investigation was completed for wetlands determination. The archeological field studies are completed. Geotech drilling was finished in April 2011. The project was given a green light by board. RePower 2.05MW turbines were chosen. Michel is the EPC contractor. GVEA submitted design for road easements to the state. GVEA submitted exhibits to ACoE for wetland permits and avian/bat plans with the USFWS. The grant was closed out on January 4, 2012.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	$2,000,000.00	$2,000,000.00
Other State Funding	$0.00	$0.00
Total State	**$2,000,000.00**	**$2,000,000.00**
Required Local Match	$300,000.00	$300,000.00
Federal Grant Funding	$0.00	$0.00
Total Project Costs	**$2,300,000.00**	**$2,300,000.00**

Grant 7040031: GVEA Eva Creek Wind Turbine Purchase

Project Scope: The Eva Creek project will consist of 12 RePower 2.05 megawatt turbines for a total wind farm capacity of 24.6 megawatts. The grant consists of $1,463,200 in REF funds toward Q4 2011 turbine purchase, plus $10 million in legislative appropriation for construction costs. The construction funds can be spent first with match coming in subsequent quarters.

Project Status: All turbines have been erected. Roadwork is finished except for some minor culvert work. The substation equipment is installed. The collector grid is installed. The O&M building is with interior focus on communications room. The civil work finished at the communications site on the Parks Highway. The contractor has installed GSU transformers and secondary cable to the wind towers. The 138kW transmission tap to the Northern Intertie will need a permanent solution whenever the line is energized to 230kV - current workaround is using wooden poles for 138kV operation. An anti-freeze solution will be injected into the conduit from the GSUs into the wind turbine towers to prevent cable damage from freeze-up. All turbines are commissioned.