Egegik Wind Feasibility Study

Grantees	Lake and Peninsula Borough (Local Government)
Technology Type	WIND
Region	Bristol Bay
AEDG Project Code	10430

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
6	912	Egegik Wind Feasibility Study	7060912	410088	Feasibility	7/1/13	12/31/15	Active

Grant 7060912: Egegik Wind Feasibility Study

Project Scope: Lake and Peninsula Borough will complete a feasibility study investigating the advisability of building a wind farm along with any necessary controls or equipment needed to integrate the wind farm into the Egegik electrical grid.

A minimum 12 month long meteorological study will be performed and a wind resource analysis written. Electrical load data will be gathered from the power plant to identify hourly load data and dispatchable electrical loads. Thermal load data will be collected from sites being considered for secondary loads. Geotechnical reconnaissance work will be completed. The feasibility analysis will address the diesel power plant and distribution system to identify upgrades that are needed to integrate wind power. A variety of wind turbine models and quantity configurations will be considered.

Project Status: The grant is in place as of May 28, 2014. Lake and Peninsula Borough is working with V3 Energy to complete the scope of work. A meteorlogical tower was purchased and installed in August 2014. After one year of data, the wind resource looks to be a Class 5 (Excellent). HOMER modeling has started. Holding discussions with community with regards to their specific goals for the wind project, especially in light of the school being closed due to low enrollment. This would reduce winter electric loads and remove a significant secondary thermal load from the proposed energy system.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	$60,000.00	$40,584.18
Other State Funding	$0.00	$0.00
Total State	**$60,000.00**	**$40,584.18**
Required Local Match	$6,666.00	$3,609.37
Federal Grant Funding	$0.00	$0.00
Total Project Costs	**$66,666.00**	**$44,193.55**