Atqasuk Transmission Line

Grantees	North Slope Borough (Utility-Government)
Technology Type	TRANSMISSION
Region	North Slope
AEDG Project Code	10146

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
2	245	Barrow to Atqasuk Transmission Feasibility Study	2195448	409021	Feasibility	7/1/09	12/31/11	Closed
4	609	Atqasuk Transmission Line	7040023	409021	Final Design	7/1/11	12/31/14	Closed

Grant 2195448: Barrow to Atqasuk Transmission Feasibility Study

Project Scope: The North Slope Borough proposes to study the viability of an overhead transmission intertie between two of their communities. This grant is to fund a portion of the feasibility analysis of an intertie between the regional center, Barrow, and the nearby smaller village of Atqasuk. The intertie would allow Atqasuk to reduce or eliminate the use of diesel fuel for its electrical generators and rely on electricity from Barrow which is produced by natural gas generators.

Project Status: The final report was received and reviewed by AEA. The project will be closed.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	$157,429.67	$157,429.67
Other State Funding	$0.00	$0.00
Total State	**$157,429.67**	**$157,429.67**
Required Local Match	$44,403.25	$44,403.25
Federal Grant Funding	$0.00	$0.00
Total Project Costs	**$201,832.92**	**$201,832.92**

Grant 7040023: Atqasuk Transmission Line

Project Scope: This phase of the Barrow to Atqasuk Power Transmission Project will initiate the engineering of the project concept that was proven to be the most viable in the feasibility study. The intent of the feasibility study was to first determine if there is an economical solution for providing electric power to Atqasuk from a low cost energy source. That source, of course, is the natural gas that is available in the Barrow area. The next goal of the study determines which power transmission concept is the most economical and compatible with the prevailing technical, environmental and social constraints. In short, the most attractive power transmission concept will be the result of the feasibility study.

The winning concept then enters the preliminary engineering phase. The purpose of the preliminary design is to adequately define the project so that all stakeholders can understand it. These stakeholders include the owners, end-users, financiers and the concerned regulatory bodies. It is the basis for gaining approval and agreement to go forth with the project. It should be noted that this preliminary phase of engineering constitutes about 30% of the entire engineering effort. The 70% balance is for final design engineering and is required solely for constructing the project. The final design consists of detailed drawings, specifications and other materials relevant to the construction phase.

Project Status: The grant agreement was signed on December 4, 2012. The progress report submitted by the grantee on July 24,2013, notes that the contract was awarded to Leland Johnson & Associated for the preliminary engineering phase.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	$210,000.00	$209,875.00
Other State Funding	$0.00	$0.00
Total State	**$210,000.00**	**$209,875.00**
Required Local Match	$0.00	$0.00
Federal Grant Funding	$0.00	$0.00
Total Project Costs	**$210,000.00**	**$209,875.00**