

Kvichak River RISEC

Grantees	Igiugig Village Council (Local Government)
Technology Type	OCEAN/RIVER
Region	Bristol Bay
AEDG Project Code	10165

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
2	265	Kvichak River RISEC Feasibility and Conceptual Design	2195466	408002	Feasibility	7/1/09	9/30/15	Active

Grant 2195466: Kvichak River RISEC Feasibility and Conceptual Design

Project Scope: The Village of Igiugig is located at the outlet of Lake Iliamna, 240 air miles southwest of Anchorage, on the southern shore of the Kvichak River. Igiugig has a year-round population of 56 (predominantly Yupik, Aleut, and Athabascan) rising in summer to about 75. Igiugig also provides goods and services to six area tourism lodges and their respective clients and workforce of 90 additional persons per week. This lake outlet location provides an ideal site for the study, testing and implementation of river-in-stream energy conversion that will also benefit other Alaska communities considering this form of renewable energy. A RISEC plant will convert available river kinetic energy into electric power, and feed into the existing Igiugig electric grid to reduce diesel fuel consumption at the Igiugig power plant.

Direct beneficiaries include the Lake and Peninsula School District (LPSD) and Igiugig electric service customers.

Project Status: The Igiugig Village Council (IVC) partnered with ORPC and the AEA EETF program to install the RivGen turbine in the Kvichak river. The turbine was deployed successfully and produced power during the summer. The turbine was removed in the fall. Summer of 2015 IVC again partnered with ORPC and installed the Rivgen for a second time. This deployment went exceptionally well. The turbine was pulled out in the fall. IVC has been working with FERC to move their licensing to the next stage. IVC has is currently seeking funds to deploy version 2 of ORPCs RivGen on a long term basis.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$718,175.00	\$698,552.18
Other State Funding	\$0.00	\$0.00
Total State	\$718,175.00	\$698,552.18
Required Local Match	\$0.00	\$0.00
Federal Grant Funding	\$0.00	\$0.00
Total Project Costs	\$718,175.00	\$698,552.18