

Wrangell Hydro Based Electric Boilers

Grantees	City and Borough of Wrangell (Local Government)
Technology Type	HEAT RECOVERY
Region	Southeast
AEDG Project Code	10012

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
1	9	Wrangell Hydro Based Electric Boilers Construction	2195423	407055	Construction	8/20/08	12/31/11	Closed

Grant 2195423: Wrangell Hydro Based Electric Boilers Construction

Project Scope: This agreement is to fund final design, permitting, and construction of the conversion from diesel-fired boilers to electric-fired boilers in 5 public facilities located in Wrangell, Alaska. The conversion will use the reduced electric rate provided by the City to utilize the spilling of excess water (water not used in power production) provided by the existing Tyee Lake Hydroelectric facility. The project is handled by the City & Borough of Wrangell and Wrangell Municipal Light & Power (WMLP). Electrical Power Systems, Inc. performed 2 feasibility studies for this project and is a preferred choice to perform project management and engineering design.

The original application identified the total of 11 buildings for conversion. Due to the reduction of funds awarded, at this point, it is feasible to complete the first 5 facilities. The city's priorities are first the Nolan Center (\$148,400), second the Public Safety Building (\$139,875), third the High School (\$195,000), fourth the Middle School (\$133,938), and fifth the Elementary School (\$137,375).

One facility, the Fire Satellite Station (\$7,887) is already completed.

As additional funds become available to the community, the remaining 5 building will be completed in the order of sixth the Hospital (\$169,490), seventh the Library (\$88,600), eight the Power Plant (\$144,265), ninth the Public Works Building (\$121,607), and tenth the Harbor Office (\$10,625).

Project Status: The project is complete and the grant is closed.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$1,862,387.13	\$1,862,387.13
Other State Funding	\$0.00	\$0.00
Total State	\$1,862,387.13	\$1,862,387.13
Required Local Match	\$76,357.87	\$76,357.87
Federal Grant Funding	\$0.00	\$0.00
Total Project Costs	\$1,938,745.00	\$1,938,745.00