

**Southeast Island School District Wood Boilers**

**FY2016 Request: \$832,635**  
**Reference No: 60785**

**AP/AL:** Allocation **Project Type:** Energy  
**Category:** Development  
**Location:** Thorne Bay **House District:** Sitka/Petersburg (HD 35)  
**Impact House District:** Sitka/Petersburg (HD 35) **Contact:** Sara Fisher-Goad  
**Estimated Project Dates:** 07/01/2015 - 06/30/2020 **Contact Phone:** (907)771-3000  
**Appropriation:** Alaska Energy Authority - Round VIII Renewable Energy Project Grants (AS 42.45.045)

**Brief Summary and Statement of Need:**

The project proposes the design and construction of cordwood boiler systems for Hollis, Naukati, and Whale Pass Schools (including teacher housing and greenhouses), and the replacement of the Thorne Bay school GarnPacs. The GarnPacs currently operated by the Thorne Bay School will be relocated Hollis and Whale Pass. The project will use wood biomass to replace diesel as the heat energy source by installing wood fired boilers in four school communities. The applicant has purchased a greenhouse for Naukati that will also use the heat from the boiler and will provide healthy, nutritious food for students and the community, in addition to giving students opportunities to learn life-long skills.

<b>Funding:</b>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>Total</u>
Renew Ener	\$832,635						\$832,635
<b>Total:</b>	\$832,635	\$0	\$0	\$0	\$0	\$0	\$832,635

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

**Project Description/Justification:**

Thorne Bay School received an AEA grant in 2009 to install two Garn wood fired boiler units, and while the system has been operating, it has proven too small for the job. The units currently in use (prototypes) can easily be moved with a forklift, so part of the proposal is to install them at two other school sites, Whale Pass and Hollis Schools. In order to heat the facility in Thorne Bay, which includes a teacher housing unit and a hydroponic greenhouse, the current system would be replaced with 2 Garn 3200's, and a structure built to house the boilers. Very little reconstruction would be necessary in Thorne Bay due to the portability of the current GarnPacs. In Whale Pass and Hollis, structures would be built to house the boilers. A wood storage area will also be constructed at Hollis, now the only one of the four communities where there is no wood storage shed. At Naukati School a wood fired boiler (two Garn 2200's) would be installed. The Naukati School is the same size as Howard Valentine School, in Coffman Cove, which has a currently operating Garn system. Naukati

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will be modeled after the Coffman Cove setup. Wood storage facilities have already been built in Naukati and Whale Pass, with 30 cords in Naukati and less than 10 in Whale Pass. Southeast Island School District is committed to moving in a direction of local energy independence, breathing life into small business enterprises such as wood cutting, and involving students in growing food, stoking the boilers, and acquiring both work and meaningful life skills.