

**Sand Point Excess Wind Utilization**

**FY2016 Request: \$307,120**  
**Reference No: 60788**

**AP/AL:** Allocation  
**Category:** Development  
**Location:** Sand Point

**Project Type:** Energy  
**House District:** Bristol Bay/Aleutians/Upper Kuskokwim (HD 37)

**Impact House District:** Bristol Bay/Aleutians/Upper Kuskokwim (HD 37) **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:**

TDX AWE is requesting phase III and IV funding for installation of electric boilers at public facilities to utilize non-firm excess wind power for heating. This work was originally proposed in 2008 as part of the Sand Point wind turbine installation, but not implemented due to wind turbine project cost and schedule difficulties. Presently, lacking means to deliver excess wind, considerable excess wind energy is dissipated into a resistive dump load, and the Island's two 500KW wind turbines are curtailed to 300KW each. This project proposes to install thermal nodes at 2 community facilities – the Sand Point School and Health Clinic with total installed nameplate electric boiler capacity of 600 kW.

<b>Funding:</b>	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	Total
Renew Ener	\$307,120						\$307,120
<b>Total:</b>	\$307,120	\$0	\$0	\$0	\$0	\$0	\$307,120

<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	0
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

Preliminary energy auditing (incorporating previous reports) will be performed on the facilities to determine the “energy baseline” from which project impact can be measured going forward. The project also includes integration of building energy use data into the existing power plant SCADA system such that ongoing operational performance can be measured and optimized.