Native Village of Napaimute ~ Ph. 907-248-4480 ~ E-mail - napaimute@gci.net

For more information:

removed from the tribal building and installed on the tracker in late October.

panels by a minimum of 20%. The solar tracker was ordered but took 10 long weeks to arrive. The solar panels were

- Near the end of the project the Tribe learned that a solar tracker could improve the efficiency of the solar

purchased by the customer, they are ordered and shipped from out of state, causing many weeks of significant delays. Many of the alternative energy components advertised by Alaska vendors are not actually stocked by them. Once

ressous reacued:

- The solar panels and wind turbine help to make the village more sustainable.
- The project demonstrates the feasibility of alternative energy to local residents and neighboring communities. resulting in fewer carbon emissions being generated and a huge cost savings.

 - In a years time, a 60% reduced dependence on conventional diesel generator power has been reached,

Benefits:

month. The project was a success and the benefits were apparent soon after the systems were operational. received the grant. Their equipment was researched, ordered, and for the most part, installed before the end of the first

Results: Napaimute's crew, lead by Mark Leary, Director of Operations for the Tribe, hit the ground running as soon as they

turbine to help improve the Tribes energy efficiency, reduce their dependence on diesel fuel, and to reduce emissions. Project Objective: The Native Village of Napaimute received a CEDP grant from ANTHC to purchase solar panels and a wind

NATIVE VILLAGE OF NAPAIMUTE

2011 Wind & Solar Alternative Energy Project







* PROJECT TIMELINE *

2011 Community Environmental Demonstration Project

In 2008, an alternative energy plan was created. In 2009, the Tribe obtained funding to purchase a simple inverter system where excess energy produced from the existing diesel generator was stored into batteries so that the generator would not **Prior** have to turn on every time power was needed. The selected system would allow for future expansion to include solar and wind power. They identified locations for the equipment and identified laborers to install the systems if they found funding. Small scale solar and The Native Village of Napaimute received a CEDP Grant from ANTHC. wind energy systems were researched, Oct. '10 quotes sought, and most equipment All of the solar energy equipment was received and successfully installed. The Tribe ordered from Susitna worked closely with the vendor to help expedite the order. The installers worked Energy in Anchorage. quickly to try to beat the first snow fall. Although they were able to erect the wind tower, there was a shipping delay on the turbine. Napaimute saved a lot of money by utilizing local expertise and materials to create the wind tower Nov. '10 The Tribe wrote an article about instead of purchasing it from a vendor. Wind towers the project and featured it in their newsletter which was are heavy and can be very expensive to ship. Dec. '10 widely distributed. Jan. '11 Feb. '11 The wind turbine Mar. '11 arrived in Napaimute. April '11 The operational wind turbine up on the hill supplying power to the Tribe. The wind turbine was May '11 The crew working late to installed and operational. get the wind tower installed. June '11 A solar tracker was July '11 **Solar and Wind Systems Purchased:** ordered which would help to Solar Panels: Solarworld 245W Panels 24V (qty.6) improve efficiency Aug. '11 Wind Turbine: Whisper 200 w/controller 48V

of the solar panels a minimum of 20%.

Sept. '11