Sealaska Corporation
RENEWABLE ENERGY FEASIBILITY STUDY

Sealaska Project Manager: Russell Dick
Technical Contact: Bob Lynette

October 2004
An Alaska Native Corporation

- One of 13 Alaska Native regional corporations created under the Alaska Native Claims Settlement Act
- Represent over 17,000 shareholders, approximately half of whom reside in SE Alaska
- Regional corporation for SE Alaska, which includes 12 village/urban corporations
Study Area – Southeast Alaska
12 Alaska Native Villages
## Participants

<table>
<thead>
<tr>
<th>Project Participant</th>
<th>Contact</th>
<th>Role</th>
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<tbody>
<tr>
<td>Sealaska Corporation</td>
<td>Russell Dick,</td>
<td>Project manager</td>
</tr>
<tr>
<td></td>
<td>Michele Metz</td>
<td>Assistant Lands Manager</td>
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<tr>
<td>Springtyme Company, L. L. C.</td>
<td>Robert Lynette</td>
<td>Technical contact, wind consultant</td>
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<tr>
<td>AP&amp;T Solutions, LLC*</td>
<td>Bob Grimm, Larry Coupe</td>
<td>Financial Analyst, Engineer</td>
</tr>
<tr>
<td>John Wade Wind Consultant LLC</td>
<td>John Wade</td>
<td>Meteorologist, wind power analyst</td>
</tr>
<tr>
<td>Northwest Wildlife Consultants</td>
<td>Karen Kronner</td>
<td>Biologist</td>
</tr>
<tr>
<td>Met Tower Services</td>
<td>Mike Sailor</td>
<td>Wind tower installation</td>
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</tbody>
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*A subsidiary of Alaska Power & Telephone Company*
Project Overview

Objectives:

- Determine if deploying wind turbines and/or small hydro facilities make sense for the Sealaska villages that are currently using diesel fuel for power.

- If answer is positive, develop a business plan to implement development program(s).
• Collect feasibility reports for studies that have previously been conducted.
• Evaluate whether application of newer technology or construction methods could result in cost savings.
## Micro-hydro Study Results

### Project Feasibility Summary

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<tbody>
<tr>
<td>Angoon</td>
<td>Thayer Creek (1,000 kW)</td>
<td>$8,700,000</td>
<td>Low</td>
<td>Moderate</td>
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<tr>
<td>Hoonah</td>
<td>Gartina Creek (600 kW)</td>
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<td>Moderate</td>
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<td>Water Supply Creek (600 kW)</td>
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<td>Hydaburg</td>
<td>Reynolds Creek (5,000 kW)</td>
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<tr>
<td>Kake</td>
<td>Cathedral Falls Creek (800 kW)</td>
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<tr>
<td>Klukwan</td>
<td>Walker Lake (1,900 kW)</td>
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</tr>
<tr>
<td>Yakutat</td>
<td>Chicago Harbor (1,400 kW)</td>
<td>$9,300,000</td>
<td>Moderate</td>
<td>Unknown</td>
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</table>
Project Status - Wind

- Field trips conducted in July 2003. Two potential sites identified:
  - Yakutat
  - Hoonah

- Two anemometer towers installed at Yakutat 8/04

- Hoonah permitted; anemometry ordered, delivered to Juneau, and scheduled to be installed in next 30 days.
Plant of Concern
Avoiding Moonwort Fern
Yakutat Site #1
Second Site at Yakutat
Signs at Sites

EXPERIMENTAL TEST STATION

This station installed to see if wind power can lower Yakutat's electricity costs.

Done in conjunction with:
- YAK-TAT-KWAN, INC.
- YAKUTAT POWER
- U.S. DEPT. OF ENERGY

Please help protect this site.
Report any damage to:
Yakutat Power @ 784-3242

Thank You
Activities Yet to be Completed

- Measure winds ~ one year
- If winds favorable, develop preliminary site layout and business plan.