

THE SOUTHEAST ALASKA INTEGRATED RESOURCE PLAN (SEIRP) PROJECT

Alaska Energy Authority

AEA project manager: Jim Strandberg

Southeast Conference energy coordinator: Robert Venables

Black and Veatch project manager: Myron Rollins

AEA staff assistant: May Clark

2/28/11

PURPOSE AND GOALS

- ◎ The SEIRP is a 50 year plan for energy projects and transmission lines in Southeast Alaska.
- ◎ The plan will:
 - Identify energy issues that affect SE Alaskans
 - Project growth in electricity demand
 - Identify which power projects and transmission lines need to be built
 - Develop an action plan for all stakeholders
 - Consider export/import of energy and how it can benefit SE Alaska

PURPOSE AND GOALS

- ◎ The plan will
 - consider energy issues
 - for remote SE communities, that must generate power and heat with diesel oil.
 - For SE communities with available hydro electric power
 - Consider impact of electric resistance heating, possibility of electric cars, and biomass heating for SE communities (both remote and urban).
 - Develop new load forecasts for electric systems

PURPOSE AND GOALS

- ◎ The plan will
 - Identify energy technologies that can be employed in SE.
 - Develop financing approaches for energy infrastructure.
 - Emerging technologies useful in urban areas as well as remote communities.
 - Be a public process, to be developed after listening to residents of SE Alaska.
- ◎ Consider highest and best use of SE energy, including potential for export of energy

FUNDING SOURCE

- ◉ Legislative Appropriation for SE IRP and IRP for Southeast Alaska Power Agency (SEAPA) system - \$500,000
- ◉ Additional funding by AEA - \$250,000
- ◉ Project combines detailed work with SEAPA integrated plan with Southeast regional plan
- ◉ Cooperative effort between SEAPA and AEA.

PROJECT TASKS

- ◉ The project has three major areas of endeavor
 - Load Forecasting and energy issues
 - Regional issues
 - Community specific issues
 - Detailed load forecasts that consider unexpected load growths for heating, new technologies, and possibility of electric cars, specific to each community and utility.
 - Technical Conference and public town meeting
 - Experts from SE Alaska to speak and teach
 - Provide Energy 101 to understand power generation, heating, and transportation in SE Alaska
 - Hear from SE public on energy issues (example: high cost of heating with diesel in remote communities)

PROJECT TASKS

- ◎ The project has three major areas of endeavor
 - Transmission line planning
 - Rational, economic approach to connecting communities
 - Consider the risk of relying on expensive, submarine cables and Interties through rough, inaccessible terrain
 - Economically ordered list of power generation and energy infrastructure projects
 - Maximize use of renewable energy sources
 - Consider new technologies to control growth of consumption
 - Consider both heating and electric projects, as well as energy efficiency of distribution and building systems.

PROJECT TASKS

- ◉ The project includes development of an specific integrated resource plan for the Southeast Alaska Power Agency (SEAPA) system
 - Includes existing SEAPA system and its current three members, Petersburg, Wrangell and Ketchikan
 - Economically ordered list of power generation and energy infrastructure projects
 - For the SEAPA system
 - Integrated into the overall ordered list for SE Alaska
- ◉ Work to be fully integrated into the SE regional plan.
- ◉ Cooperative effort with SEAPA

SCHEDULE

- ◎ First teaching and public meeting conference
 - Two day conference - April 21st and 22nd, 2011
 - 1 ½ days of presentations
 - ½ day of public town meeting format
- ◎ Take-away for Planning team: What issues must be dealt with in the plan that affect the energy future of SE Alaskans. (A list to be the foundation of the regional plan)

SCHEDULE

- ◉ By October of 2011
- ◉ A list of energy infrastructure projects that can be undertaken in the next three years to address energy costs and reliability for all of SE Alaska.
- ◉ A list of actions that can be taken by SE Alaskans that require coordinated action between utilities, SE Alaskans, and the Alaskan business community.

SCHEDULE - DRAFT REPORT

- ◎ By December 2011
- ◎ A draft regional plan
 - complete with action plan, to mobilize SE stakeholders for coordinated action
 - list of capital projects to develop SE energy infrastructure (power generation, transmission and heating, and transportation)
 - Specific Integrated Plan for the SEAPA network
- ◎ Presented to SE Alaska at the second public meeting, for public comment.

SCHEDULE - FINAL REPORT

- ◉ By January 2011
- ◉ A final report,
- ◉ Available for consideration by legislators
- ◉ A finalized list of capital projects to develop SE energy infrastructure (power generation, transmission and heating, and transportation)
- ◉ Take Away: A coordinated action plan for SE Alaska residents, their Bankers, Municipal Gov'ts, Utilities, and SE investors to develop a secure and economic energy future for SE Alaska.

AEA APPROACH TO THIS WORK

- ◎ Actively seek input on energy issues
 - From SE Alaskans
 - Community local governments
 - SE business people
 - Utilities
 - Advisory Work Group to represent this SE economy.

ADVISORY WORK GROUP ROSTER

AEA SE IRP Advisory Work Group Roster - 2/3/11			
Category			
ARDOR/trade group	Robert Venables	Energy Coordinator	SEC
Elected Officials	Merrill Sanford	Assembly member, Juneau	Juneau City and Borough
	Henrich Kadake	City Mayor	City of Kake
	Jeremy Maxand	Mayor	Wrangell Borough
Utilities	Mike Kline	Electric utility superintendent	Ketchikan Public Utilities
	Paul Bryant	General Manager	Metlakatla Power & Light
	Steve Henson	Superintendent	Wrangell Light and Power
	Joe Nelson	Superintendent	Petersburg Municipal Power & Light
	Chris Brewton	Superintendent	Sitka Electric Utility
	Tim McLeod	President	Alaska Electric Light and Power
	Jodi Mitchell	CEO	Inside Passage Electric Cooperative
	Bob Grimm	CEO	Alaska Power & Telephone Company
	Dave Carlson	CEO	Southeast Alaska Power Agency
	Scott Newlun	Electric utility superintendent	Yakutat Power
Federal Government	Barbara Stanley	Energy Coordinator	USDA Forest Service
	Beth Pendleton (invited)	Regional Forester	USDA Forest Service
Environmental Community	Dan Lesh	Energy Coordinator	SEACC
Village Corporations	Russell Dick	Board Chair	Chair of Huna Totem Corporation, Hoonah, Alaska
Regional Corporation	Rick Harris	Executive Vice President	Sealaska Corporation
Private Sector Power Producers	Paul Southland	Special Project Director	ACE Coalition
Business Sector	Bill Corbus	Chairman of the Board and Owner	Alaska Electric Light and Power

