

CESA Spring
Membership Meeting
June 4, 2013

Alaska Energy Authority



Mission: Reduce the Cost of Energy in Alaska

- Investing in Alaska's energy infrastructure
- Diversifying Alaska's energy portfolio
- Energy Planning and Policy
- Training and Technical Assistance



Alaska's Energy Challenges

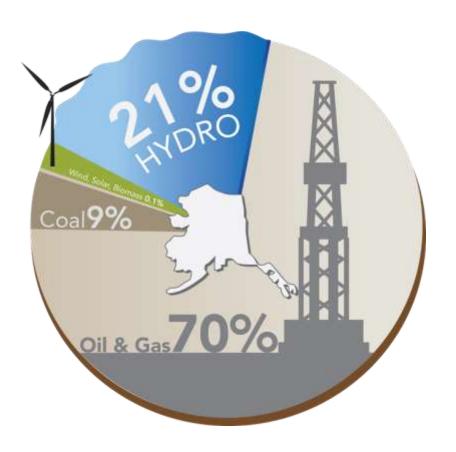
- Varied energy costs and resources by region
- Declining oil production / highly volatile fossil fuel costs
- Aging facilities
- Dispersed communities, no central grid
- Short and long-term solutions necessary

2025 Renewable Energy Goal



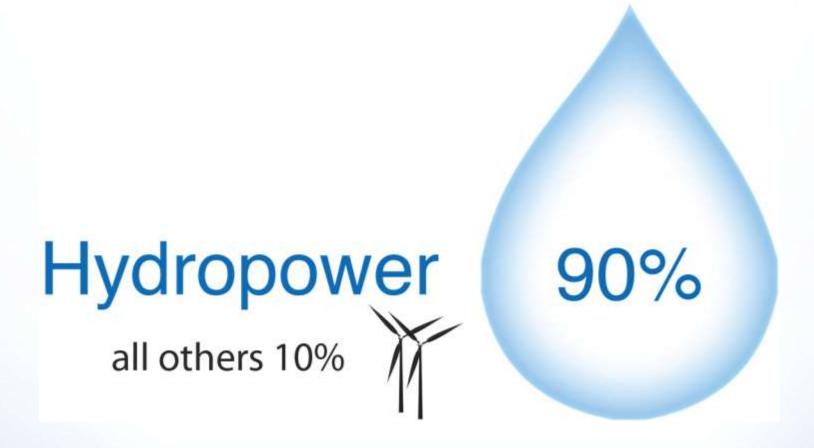


Alaska: Electricity Sources





Renewable Electrical Power





Clean, reliable energy for the next 100 years.

Susitna Hydro: History

1950s

First studies conducted by U.S. Bureau of RecImation.

1980s

Alaska State studies project but oil prices cause state to postpone.

50%

2010 Renewable Energy Goal by 2025

2011

Alaska Legislature unanimously authorizes Alaska Energy Authority to pursue Susitna-Watana Hydro.

2012

Studies begin on Susitna River and surrounding areas



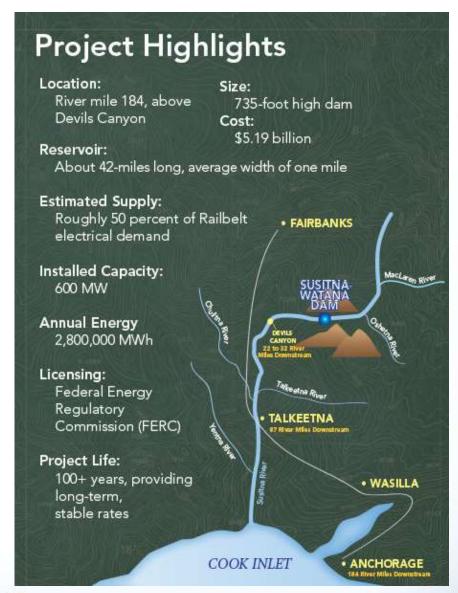
Clean, reliable energy for the next 100 years.

Why Susitna-Watana Hydro

- Serves ~80% of state's population
- 1,000 jobs during peak construction
- Stable electricity rates for 100+ years
- Long-term diversification
- Clean, reliable energy source
- Promotes integration of variable power sources

Project Highlights

- Susitna-River Mile 184
- 87 River Miles from Talkeetna
- 22-32 River Miles upstream from Devils Canyon
- ~50 percent of Railbelt's Energy Demand





Clean, reliable energy for the next 100 years.

Project Timeline

TIMELINE





Clean, reliable energy for the next 100 years.

2012 Accomplishments

- Initiated early field work
 - Multi-year studies on Chinook salmon
 - Partnerships with Alaska Department of Fish & Game
- Information gathering
 - 1980s studies
 - ADF&G management data
- Engineering Progress
 - Refining design models
 - Board of Consultants
 - Geotechnical exploration
- Independent Cost Estimate



Clean, reliable energy for the next 100 years.

2013 Accomplishments & Goals

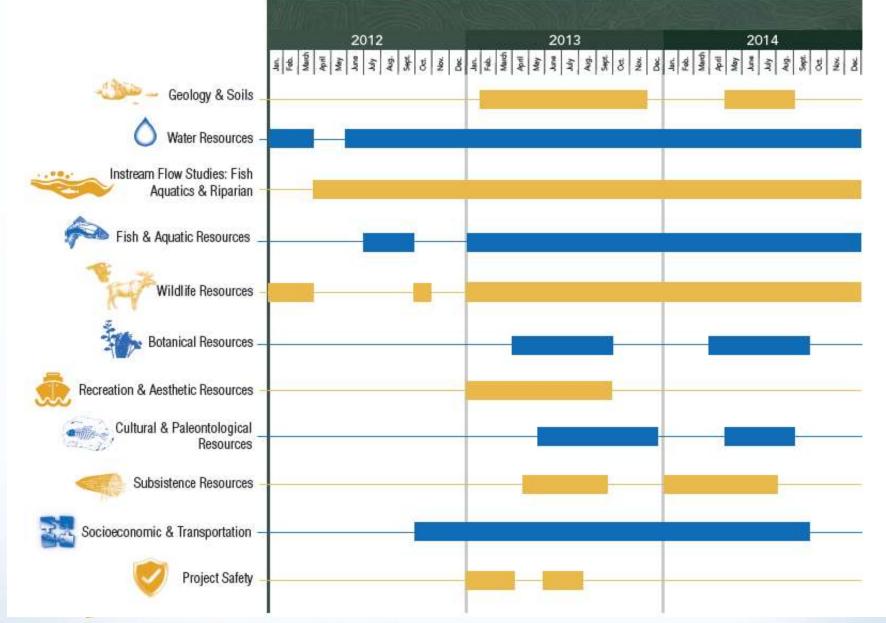
- FERC-approved Environmental Study Plan
 - 58 approved studies
 - Implementing studies
- Logistics and Health, Safety Environment Planning
 - Emphasis on culture of safety
- Financial Advising Firm
- Utility Coordination
- Stakeholder Outreach



Revised Study Plan

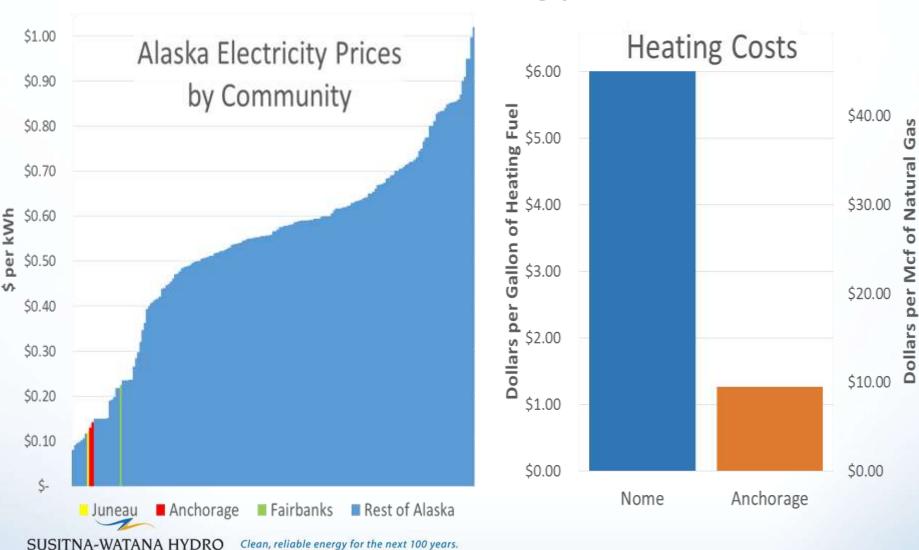
- Unprecedented effort
- Proactive approach
- 58 studies
- 186,000 acres





SUSITNA-WATANA HYDRO Clean, reliable energy for the next 100 years.

Alaska's Energy Costs



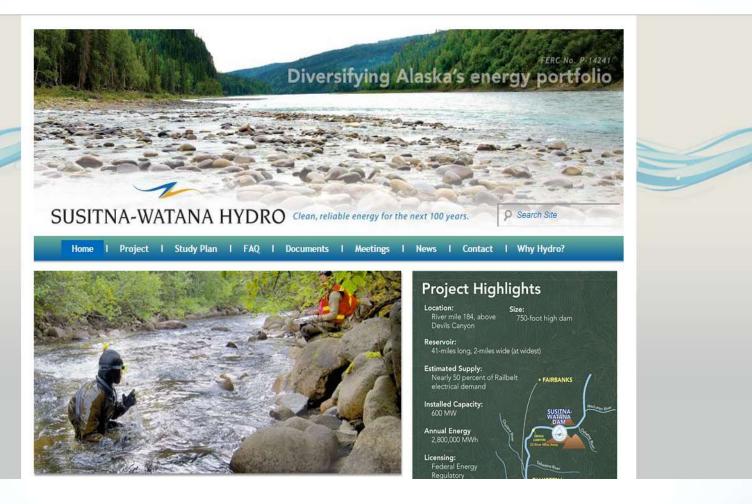
Susitna-Watana Power Costs (\$/kWh)

Year 1 Rate (\$2024)	\$0.181
Year 1 Rate (\$2013 Real)	\$0.138
10 Year Ave Rate (\$2013 Real)	\$0.124
25 Year Ave Rate (\$2013 Real)	\$0.106
50 Year Ave Rate (\$2013 Real)	\$0.061

Real= Adjusted for Inflation

Assumes no Direct State Financing





Susitna-WatanaHydro.org



