



SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Susitna-WatanaHydro.org



Alaska Energy Authority



Mission: Reduce the Cost of Energy in Alaska

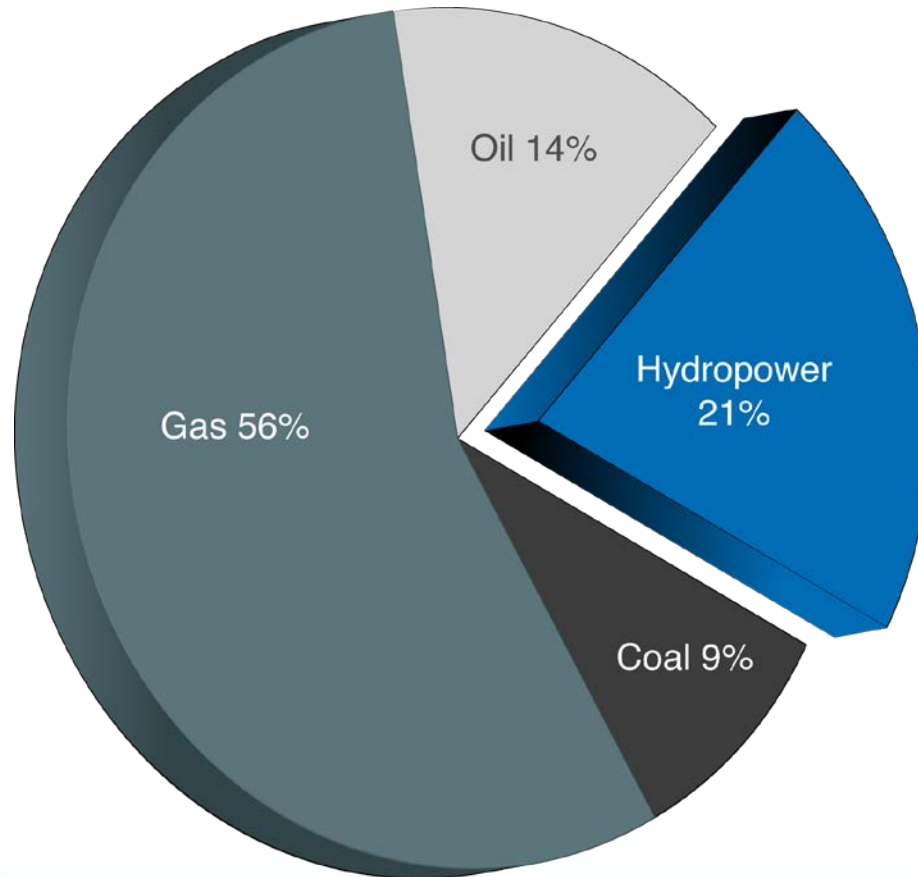
- Investing in Alaska's energy infrastructure
- Diversifying Alaska's energy portfolio
- Energy Planning and Policy

Alaska's Energy Challenges

- Ranks 5th highest in energy costs
- Declining oil production / highly volatile fossil fuel costs
- Aging facilities
- Uncertainty about natural gas
- Dispersed communities, no central grid



Alaska: Electricity Sources



Renewable Energy for Electricity

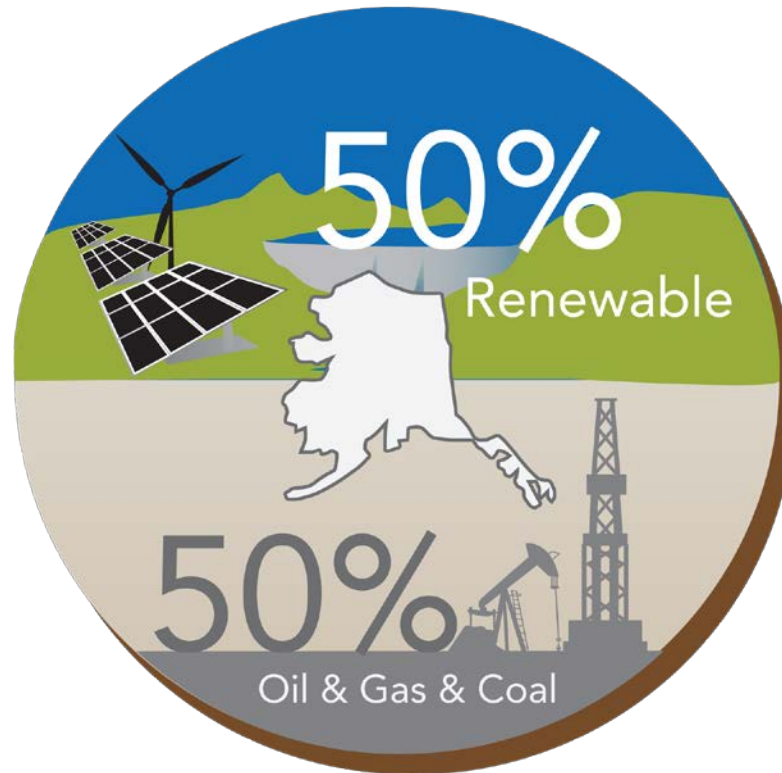
Hydropower

99.7%

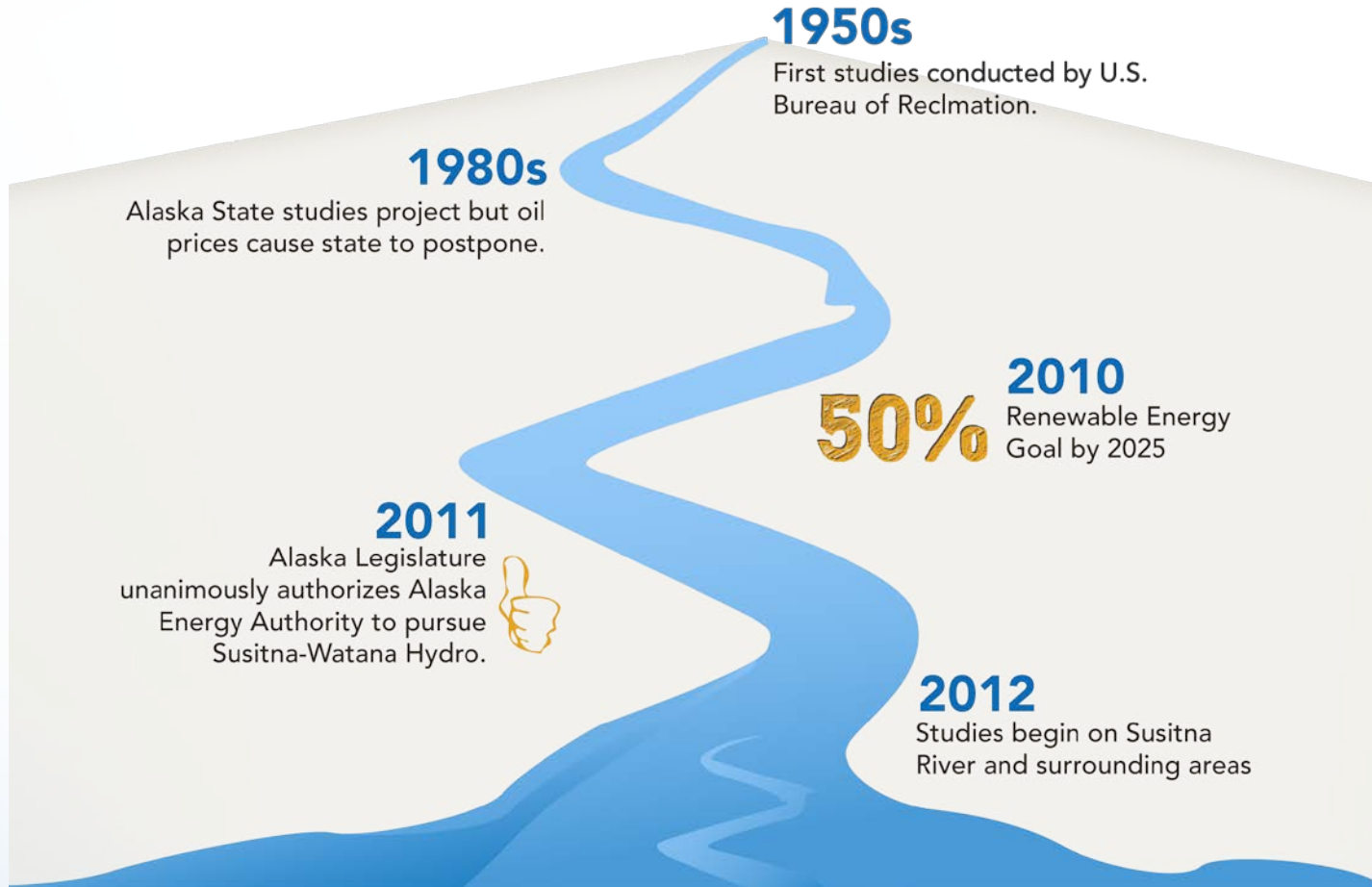
all others .3%



2025 Renewable Energy Goal

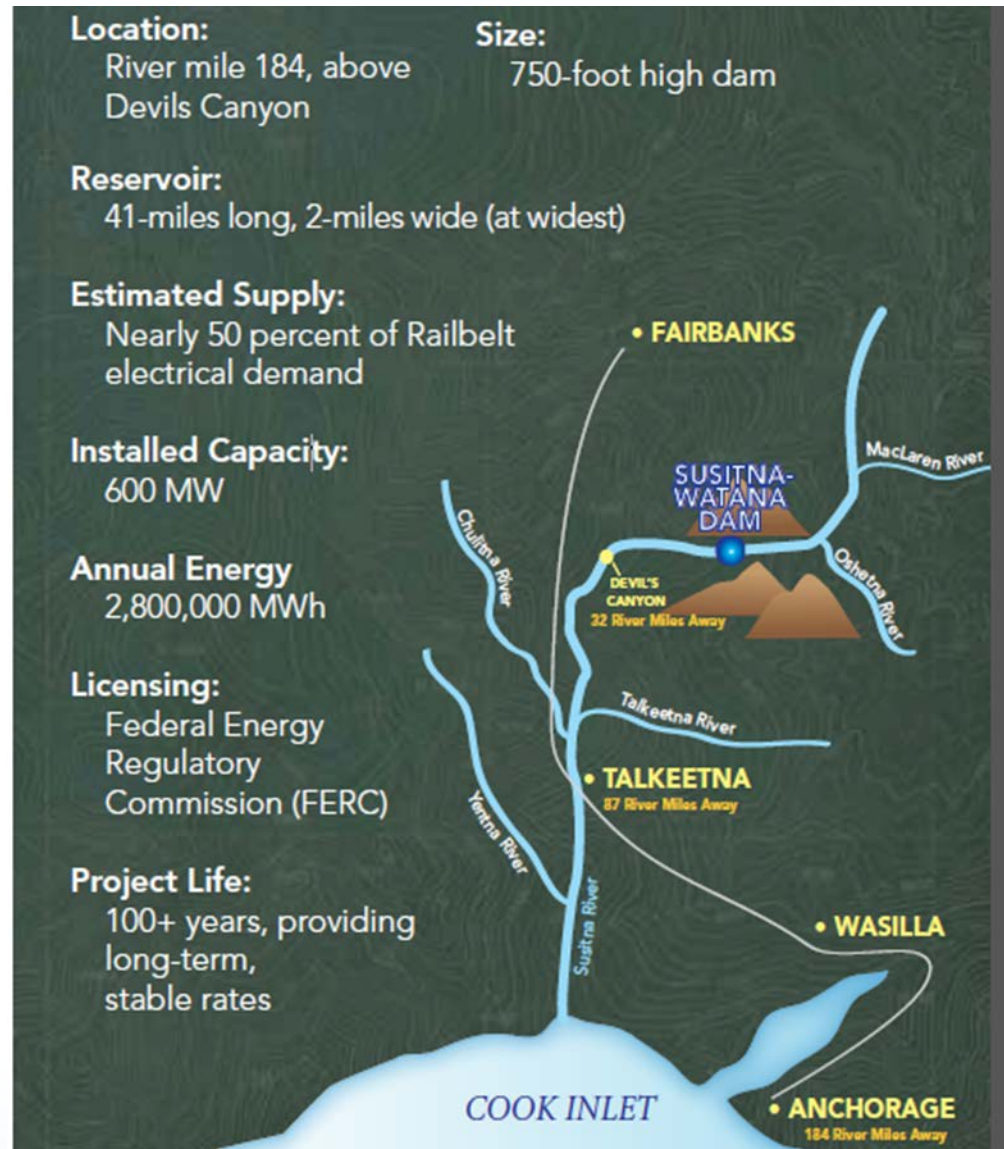


Susitna Hydro: History



Project Highlights

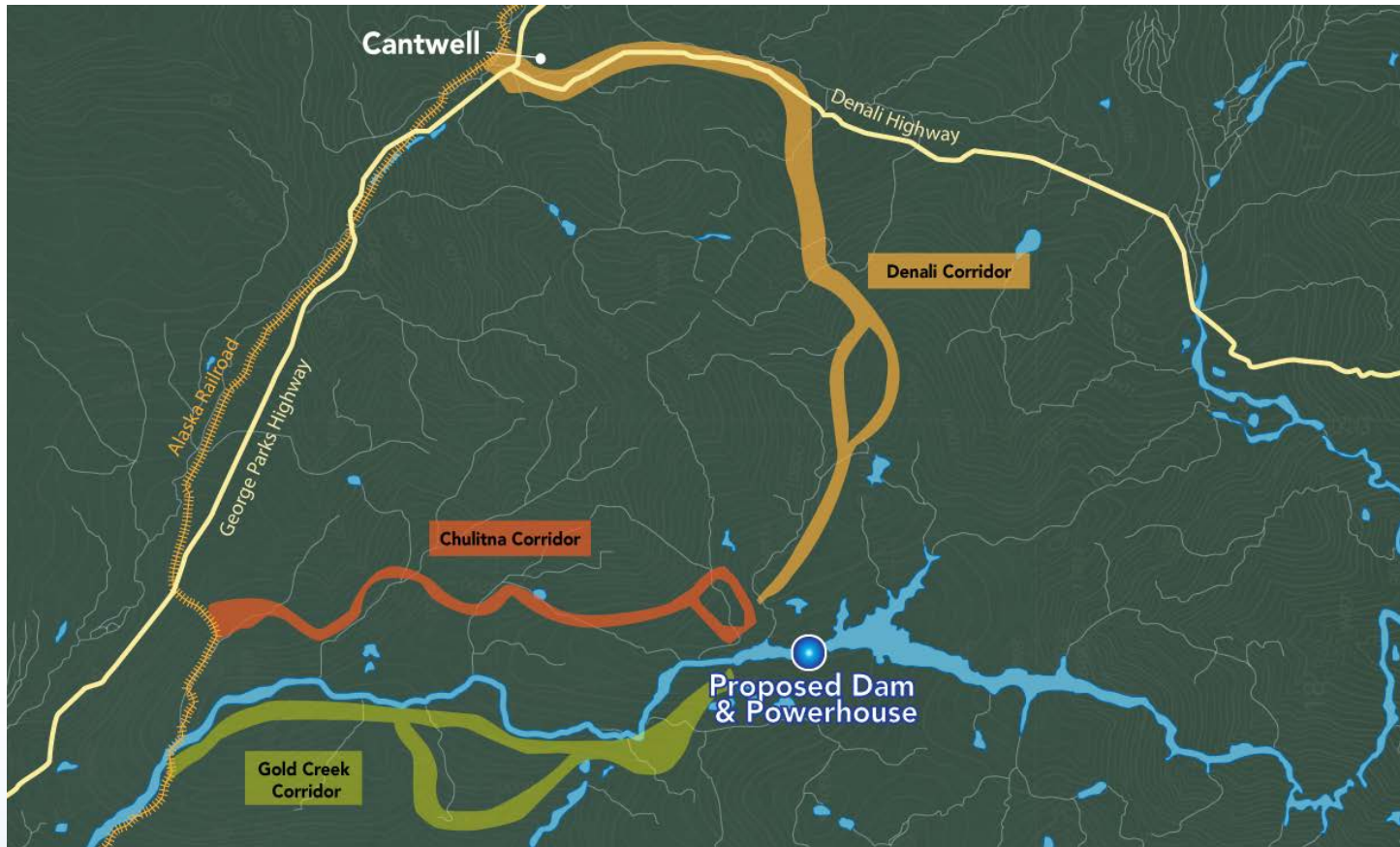
- Susitna-River, Mile 184
- 87 River Miles from Talkeetna
- 32 River Miles from Devils Canyon
- Remote location
- \$4.76 Billion Cost Estimate



Why Hydro

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

Access and Transmission Alternatives



Project Timeline



Susitna-Watana Hydro 2012 Accomplishments

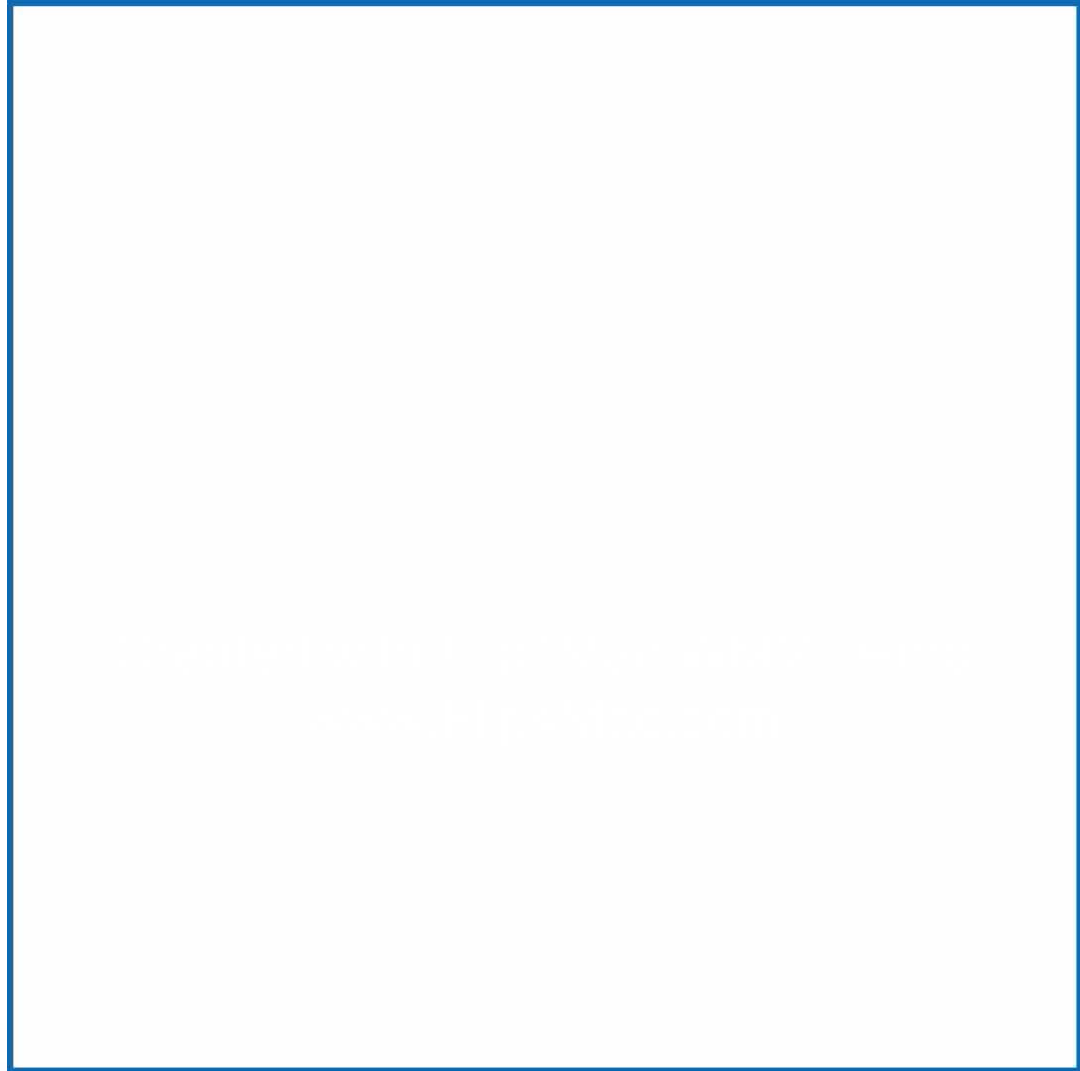
- **Fieldwork**
 - Conducted 18 initial 2012 studies
 - Geotechnical and surveying
 - Synthesize historical 1980s information
- **Licensing Progress**
- **Independent Cost Estimate**
- **Board of Consultants**

Susitna-Watana Hydro 2012 Accomplishments

- Engineering
 - Progress refining design models
- Road access
 - Identified three potential routes
- Stakeholder engagement

Proposed Study Plan

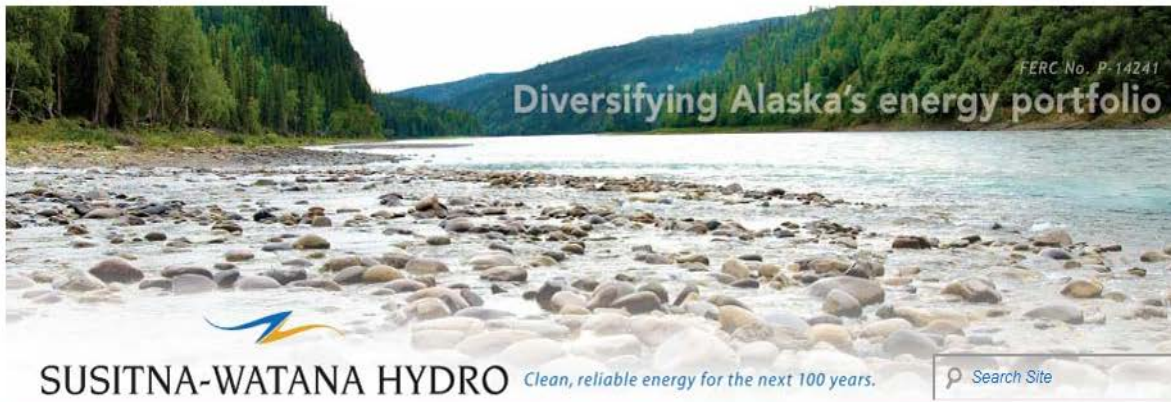
- Unprecedented effort
- Proactive approach
- 58 studies
- 186,000 acres



Upcoming Milestones

- Revised Study Plan to FERC
 - Dec. 14
- Public Comment on Study Plan
 - Dec. 15 through Jan 18, 2013
- FERC Issues Study Plan Determination
 - Feb. 1
- Engineering Feasibility Report
 - Beginning of 2013





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Project Highlights

Location: River mile 184, above Devils Canyon
Size: 750-foot high dam

Reservoir: 41-miles long, 2-miles wide (at widest)

Estimated Supply: Nearly 50 percent of Railbelt electrical demand

Installed Capacity: 600 MW

Annual Energy: 2,800,000 MWh

Licensing: Federal Energy Regulatory

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