

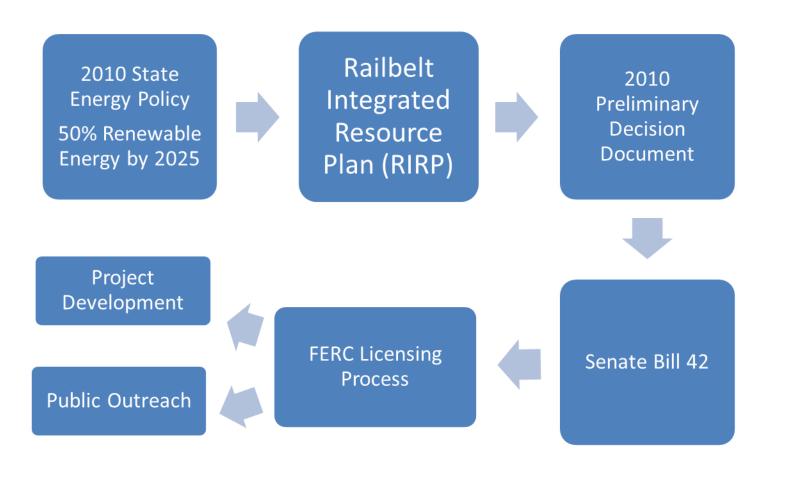


# Why Hydro?

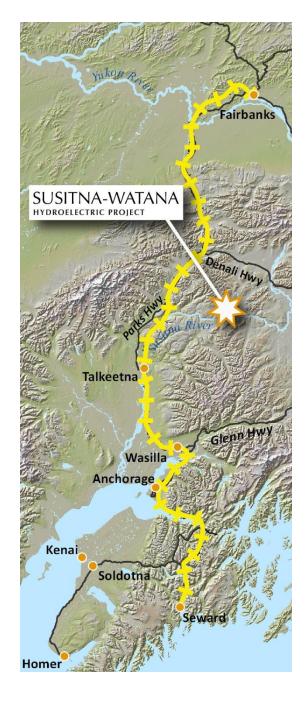
- Represents 7.5 percent of U.S. electric energy needs
- Diversifies Alaska's energy portfolio
- Benefits and stabilizes electric grid
- Potential to combine with other energy sources
- Operation can balance environmental and developmental values
- Long-term, stable electrical rates (Bradley Lake Project)
- Stable energy costs benefit businesses



# Process





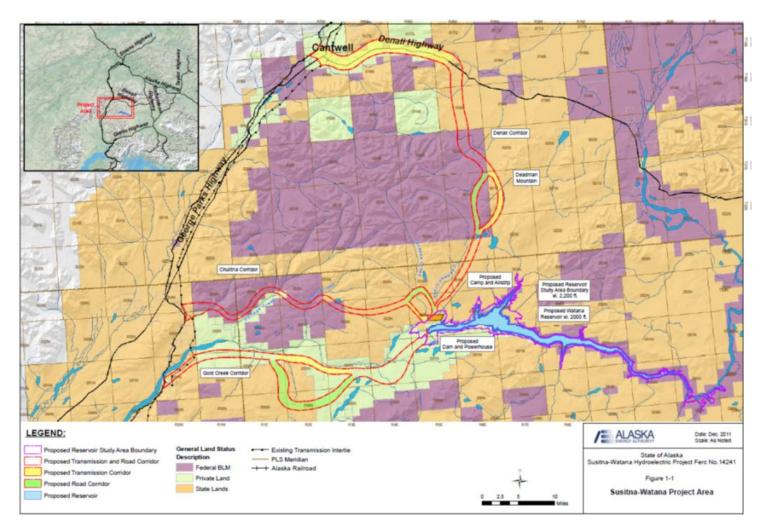


## **Project Overview**

- Location: river mile 184, above Devils Canyon
- Size: ~700 foot-high dam
- Reservoir 39 miles long, 2 miles wide (at widest)
- Supply: ~50% of Railbelt electrical demand
- Capacity: 600 MW installed capacity, annual average 2,500, 000 MWh
- Project life: 100+ years, providing long-term, stable rates

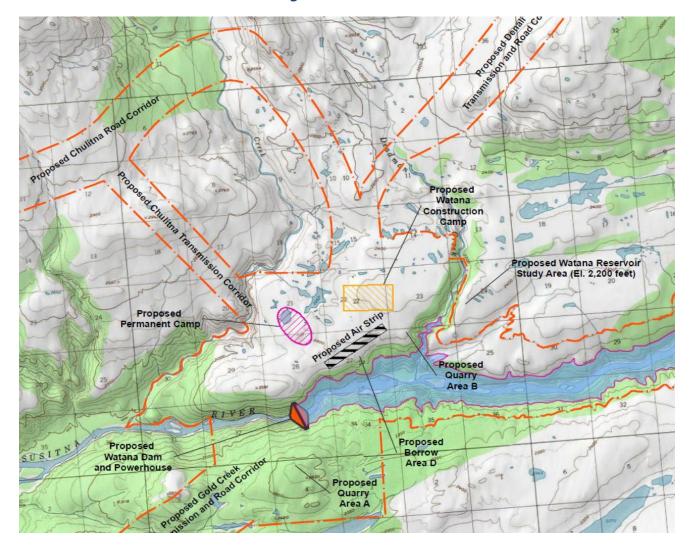


**Project Area** 



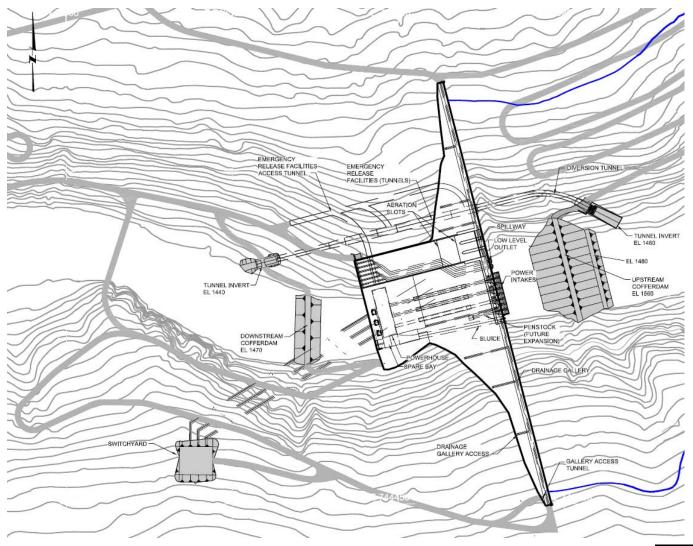


#### **Project Site**



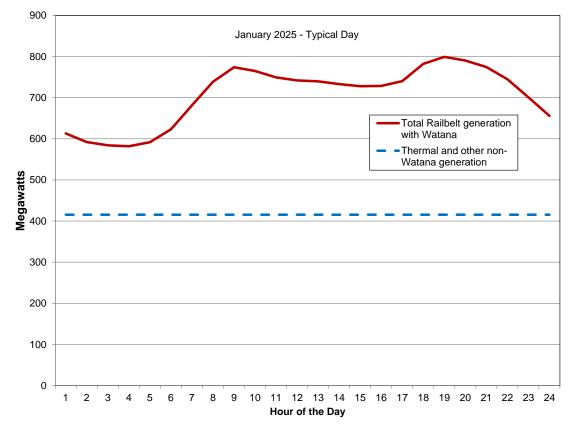


#### **Conceptual Site Plan**





### **Project Daily Operation**



 Load-following to provide system stability and responsiveness to energy demand



### Schedule

	Task Name		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
		Concession of the local division of the loca	the second s	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2
1	File NOI and PAD	3	E											
2	Conduct Informal Studies													
3	FERC Approval of 2013 and 2014 Study Plans		<	11/9										
4	Engineering Feasibility Study Completed			> 12/14	1									
5	Check-in			1/11										
6	Leg. Appropriation for Licensing/Final Design													
7	State Investment Appropriation													
8	Conduct FERC Approved Studies			C	1									
9	Prepare and File License Application													
10	Settlement Negotiaions w/Stakeholders				C	1								
11	Negotiate Power Sales Agreements			C			1							
12	Final Engineering Design			C										
13	FERC EIS					C								
14	FERC License Issuance							3/3						
15	Project Financing				C			1						
16	Construction							C						



## 2012 Environmental Studies

- Geomorphology/Sediment Transport
- Ice Studies
- Project Operation Studies
- Water Quality
- Fisheries
- Wildlife
- Botanical
- Cultural Resources
- Recreation



## 2012 Engineering Studies

- Hydrology & Power Operations
- Loads & Resources Modeling (RIRP)
- Feature Layouts & Optimization
- Transmission System Reliability & Stability Modeling
- Geotechnical Investigations
- Formation of Board of Consultants
- Update of Construction Cost Estimates
- Feasibility Report





**Public Scoping Meetings** 

- March 26: Anchorage 6-10 p.m., Loussac Library
- March 27: Anchorage and Wasilla 9 a.m.-2 p.m., Loussac Library
- March 28: Talkeetna and Glennallen
- March 29: Cantwell and Fairbanks

Susitna-watanahydro.org/

