



# SUSITNA-WATANA

## HYDROELECTRIC PROJECT

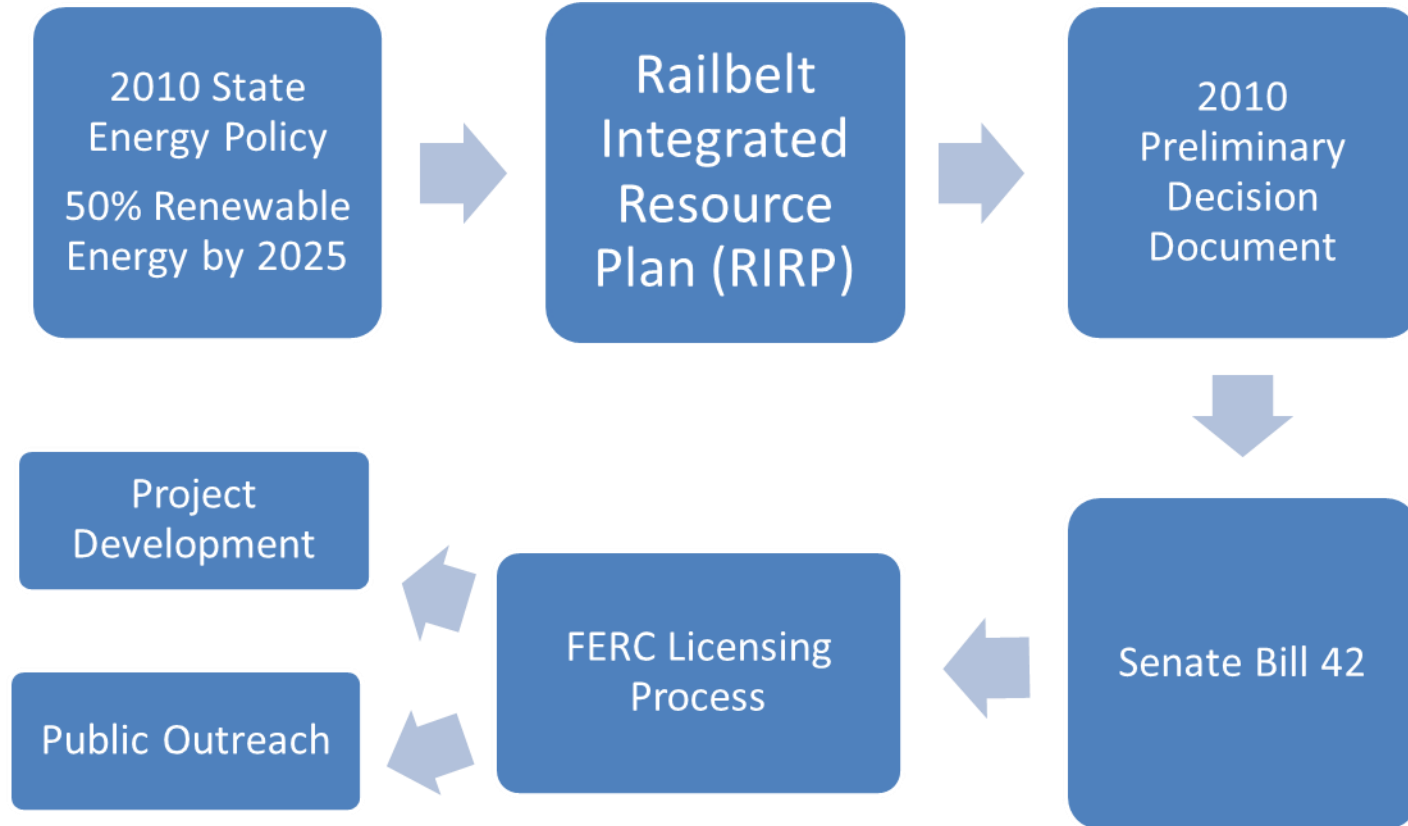


# Why Hydro?

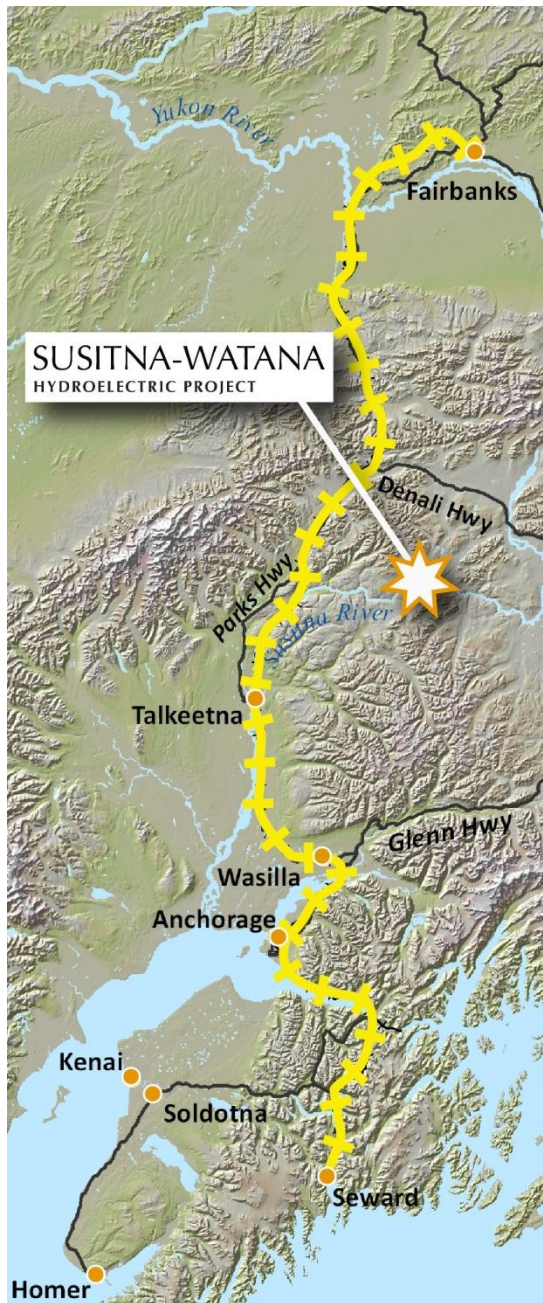
- Represents 7.5 percent of U.S. electric energy needs
- Diversifies Alaska's energy portfolio
- Benefits and stabilizes electric grid
- Potential to combine with other energy sources
- Operation can balance environmental and developmental values
- Long-term, stable electrical rates (Bradley Lake Project)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



# Process

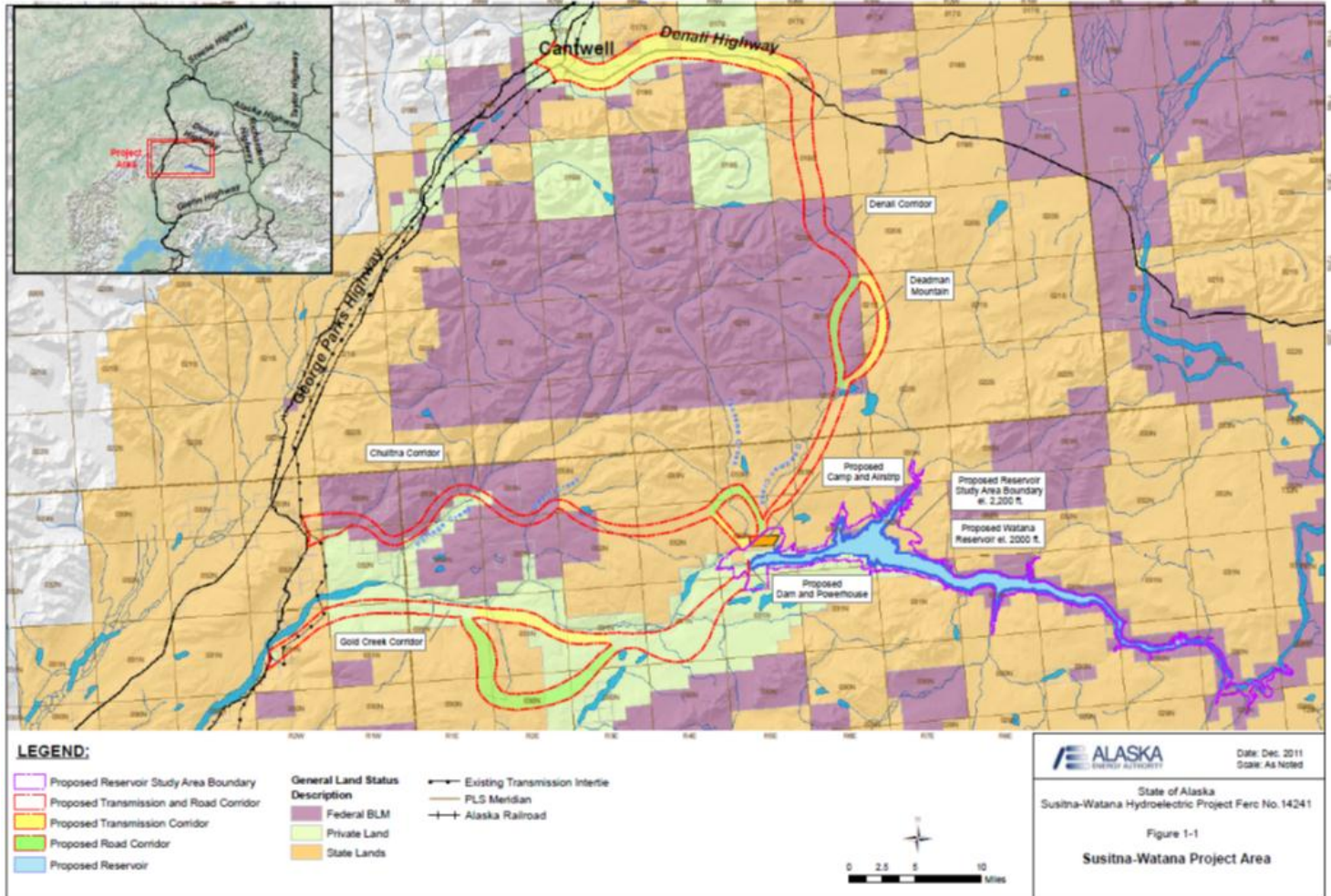


# Project Overview

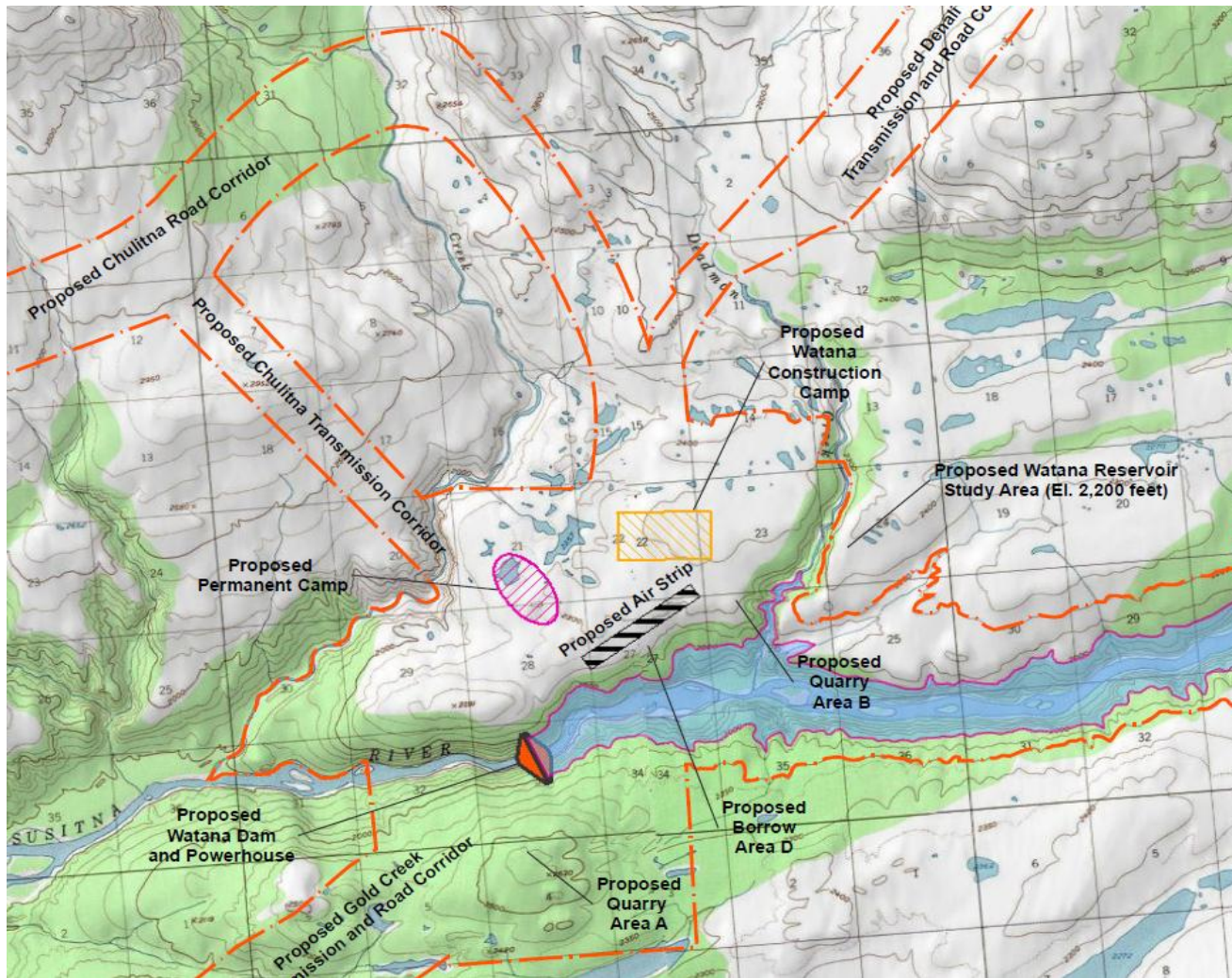


- Location: river mile 184, above Devils Canyon
- Size: ~700 foot-high dam
- Reservoir 39 miles long, 2 miles wide (at widest)
- Supply: ~50% of Railbelt electrical demand
- Capacity: 600 MW installed capacity, annual average 2,500, 000 MWh
- Project life: 100+ years, providing long-term, stable rates

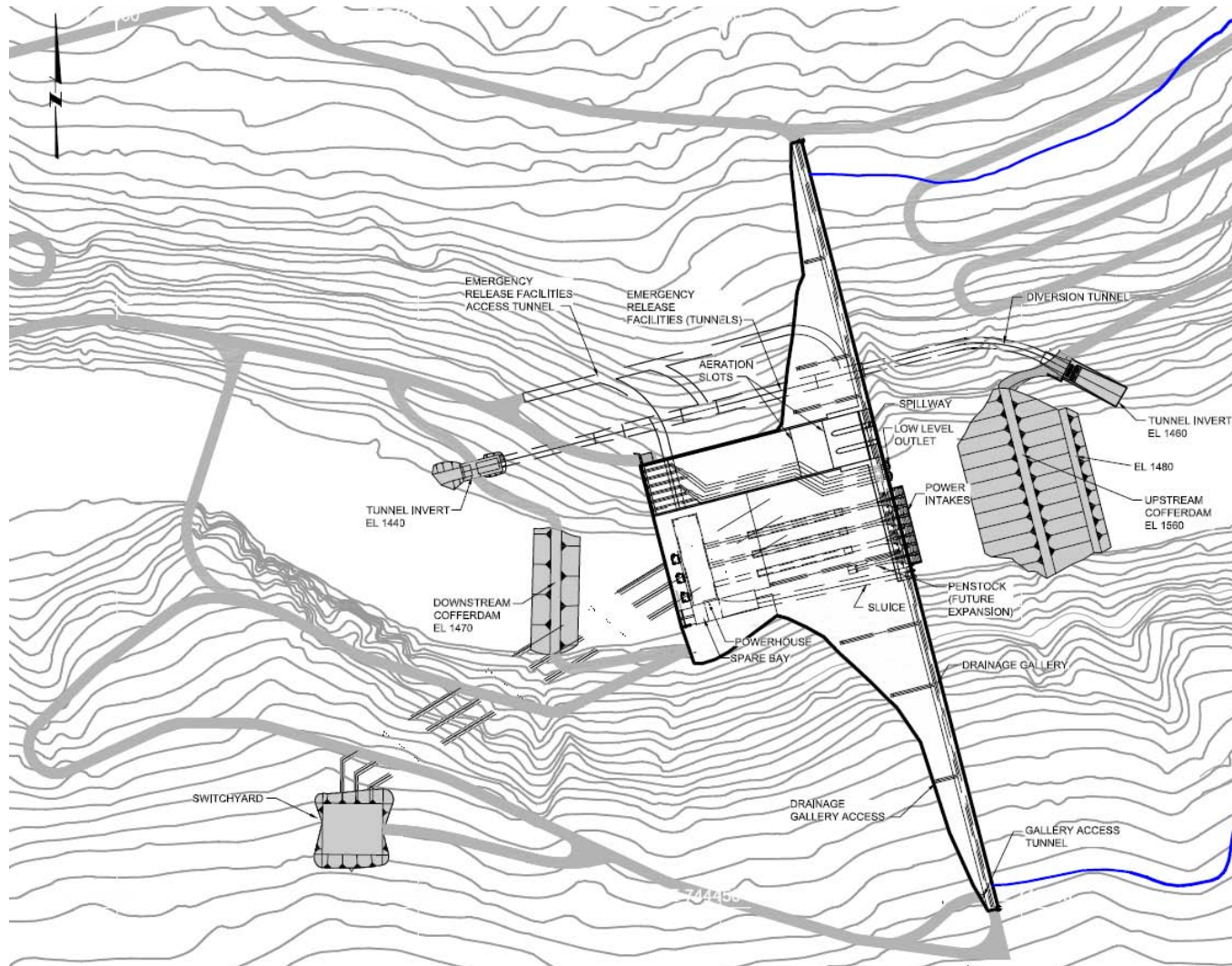
# Project Area



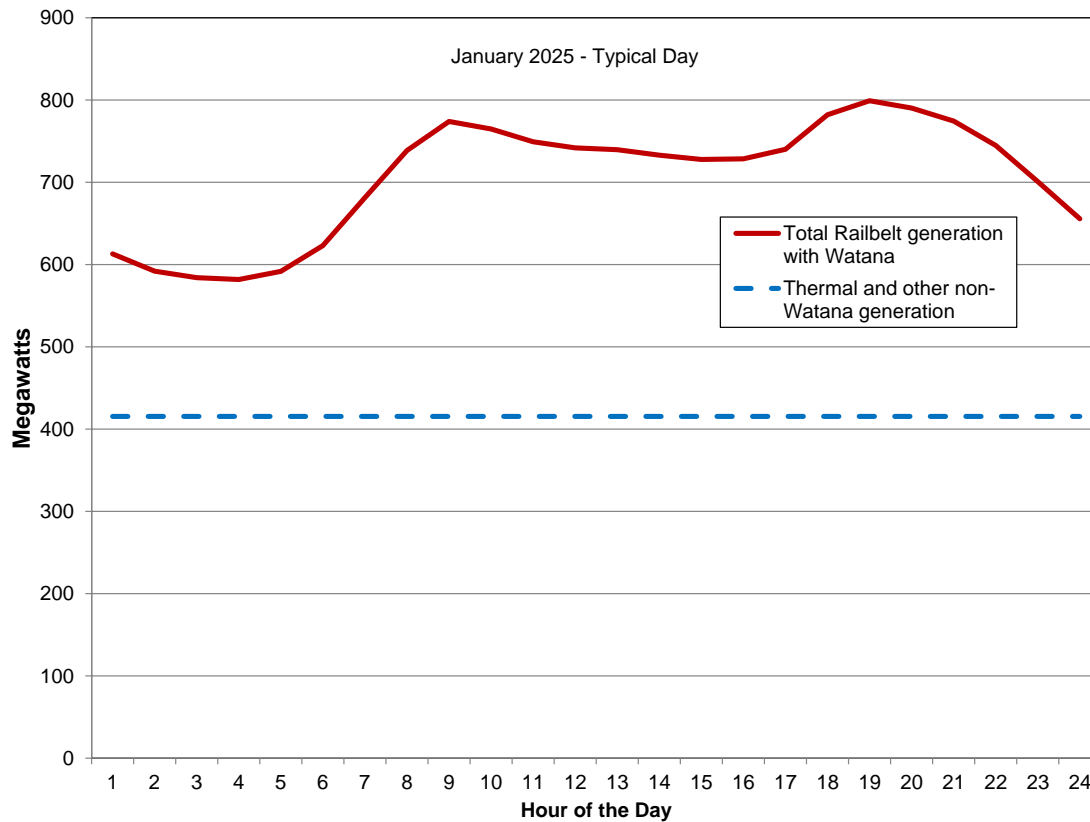
# Project Site



# Conceptual Site Plan



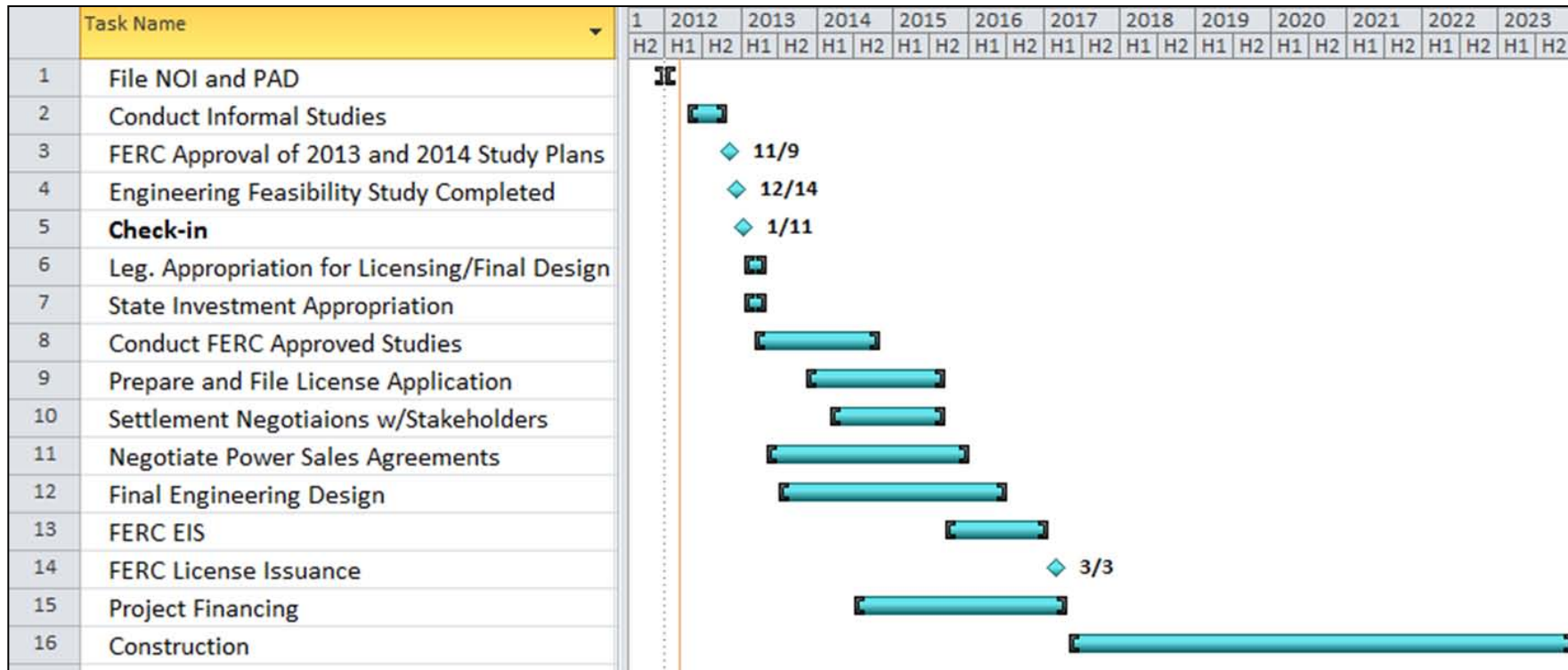
# Project Daily Operation



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



# Schedule



# 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



# SUSITNA-WATANA

## HYDROELECTRIC PROJECT

### 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/](http://Susitna-watanahydro.org/)