

House and Senate Transportation Committees Sara Fisher-Goad, executive director January 22, 2015

2014 Licensing Milestones

- Initial Study Report (ISR) Filed with FERC
 - More than 8,000 pages
 - 2013 results for 51 studies
- 32 Technical Memorandums on 2014 Environmental Study Results Filed with FERC
- Data collection completed on 13 FERC-approved studies
- Report to the Legislature made available January 20,2015



2014 Environmental Program

Safe and Effective Field Season

More than 200 in the field, with one OSHA-recordable incident

Increasing Understanding of Susitna Basin

- Advancing the state of science for agencies to better manage resources (fish, wildlife, birds)
- Publicly-available data and imagery
- Multi-agency collaboration

2014 Environmental Program

Advancing the State of Science for agencies to better manage resources:

- Wildlife, recreation, subsistence surveys
- Documented distribution of invasive Northern Pike in the Lower Susitna River
- Contributed more than 4,500 tissue samples to the ADF&G Gene Conservation Lab
- Expanded distribution data for Chinook salmon and Lake and Rainbow Trout

Partnerships to maximize value of state investments, especially in fisheries research



2014 Environmental Program

Data collection and trends similar to 1980s

- Fish distribution
- Chinook salmon only documented anadromous fish above Devils Canyon
- Water chemistry and seasonal changes in chemistry
- Geomorphically stable river system
- Magnitude of bird migration and breeding distribution

Defining potential areas of impacts

- Insignificant water quality or geomorphic impacts below Yentna River Confluence- No further modeling proposed
- Minor impacts on main channel geomorphology in Middle River-Dam site to Chulitna River



1/21/2015

The Susitna River is a Stable System

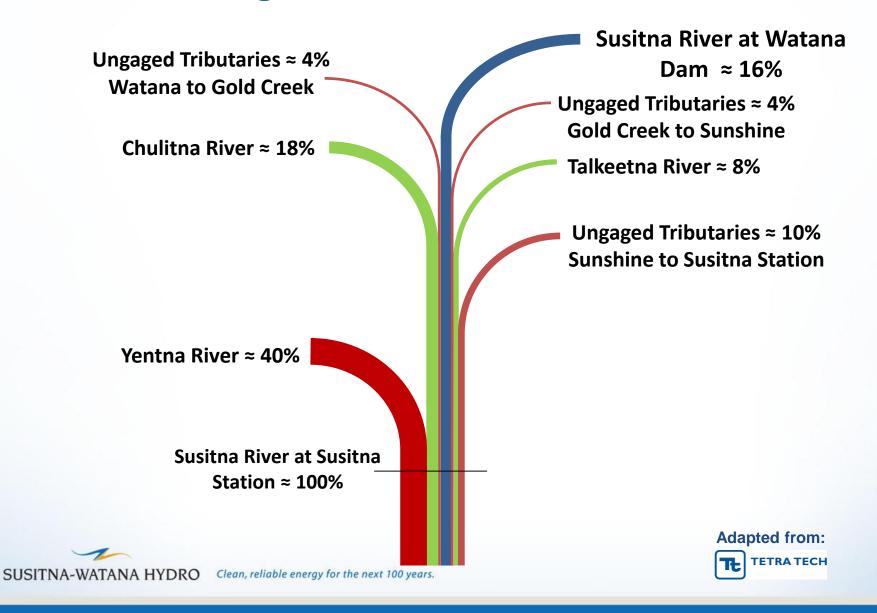




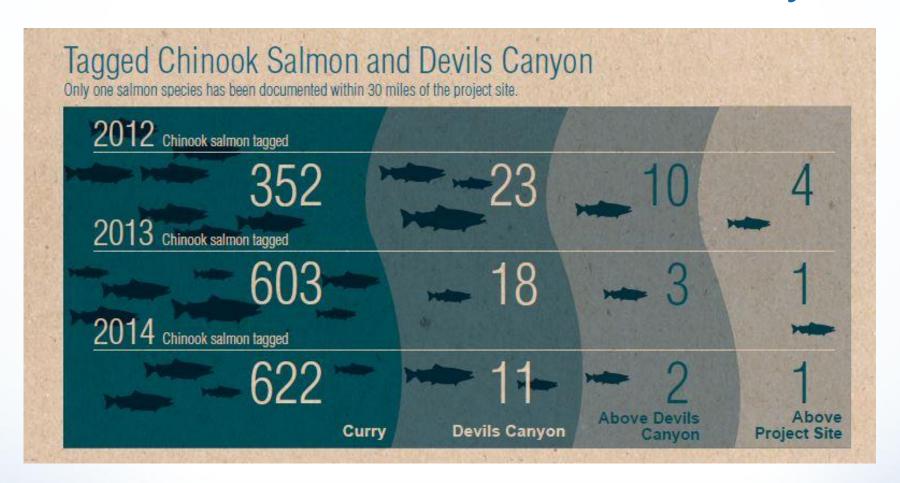


1/21/2015

Average Annual Flow Contributions



Chinook Salmon and Devils Canyon





Clean, reliable energy for the next 100 years.

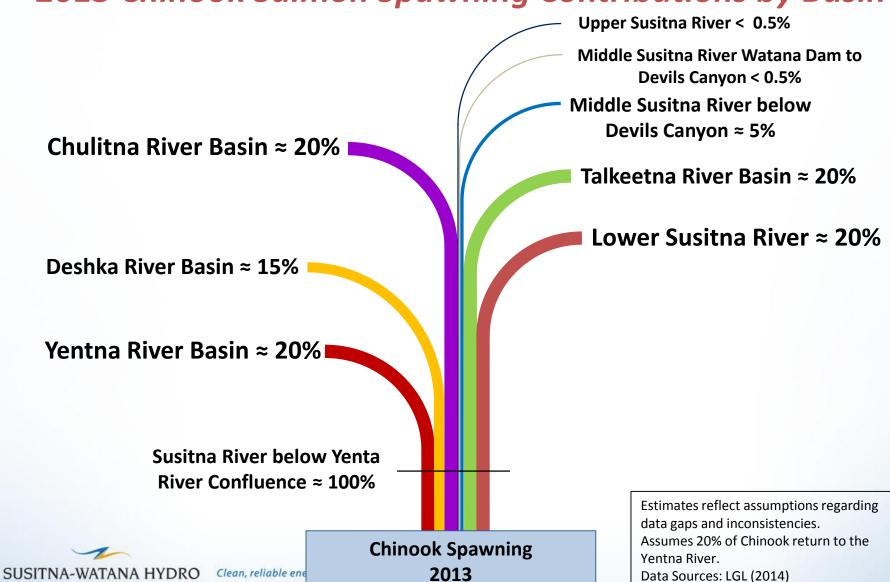
1/21/2015

Salmon, Tributaries and Devils Canyon

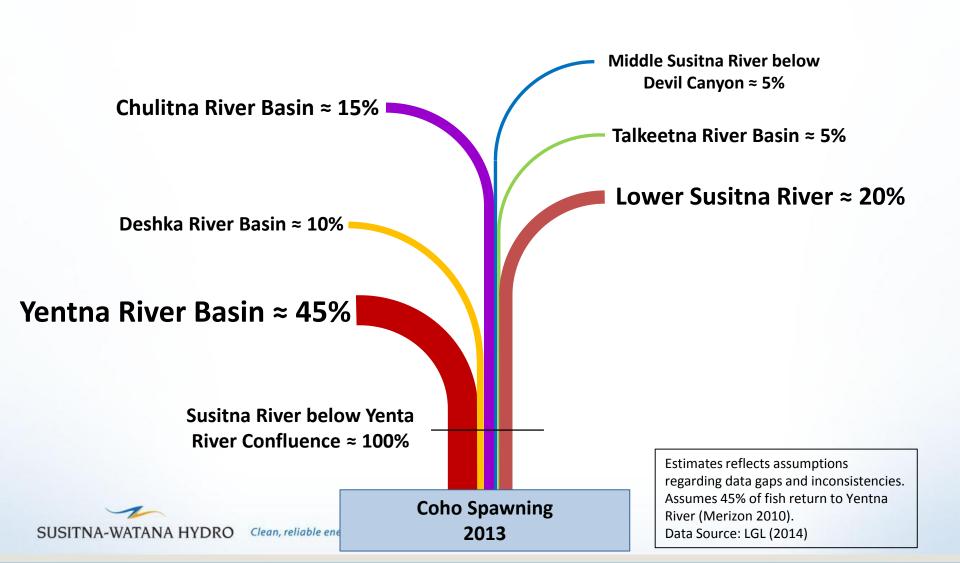
- Salmon spawn in tributaries and off-channel habitats
- Chinook Salmon only anadromous fish documented above Devils Canyon
 - Less than 0.5% total Susitna River Chinook escapement
- 97-99% of Chinook tagged in Lower River spawned in tributaries
 - 0.6 to 2.7% spawn in mainstem Susitna River, below Three Rivers Confluence
- 93-97% of Coho tagged in Lower River spawned in tributaries
 - 2.8 to 6% spawn in mainstem Susitna River below Three Rivers Confluence



2013 Chinook Salmon Spawning Contributions by Basin



2013 Coho Salmon Spawning Contributions by Basin

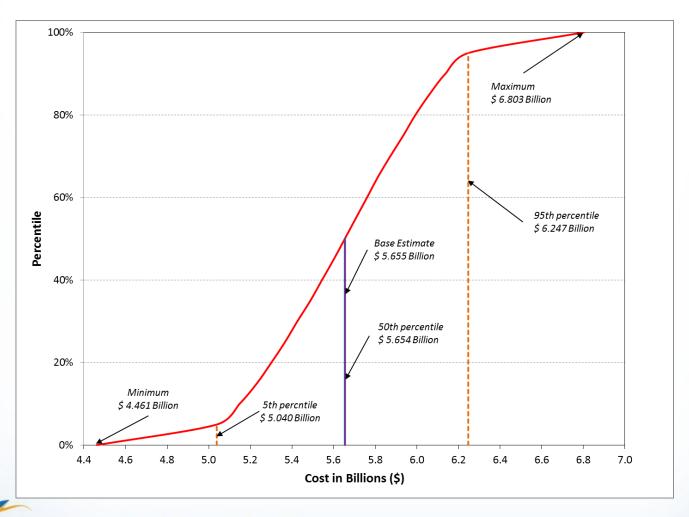


2014 Engineering Accomplishments

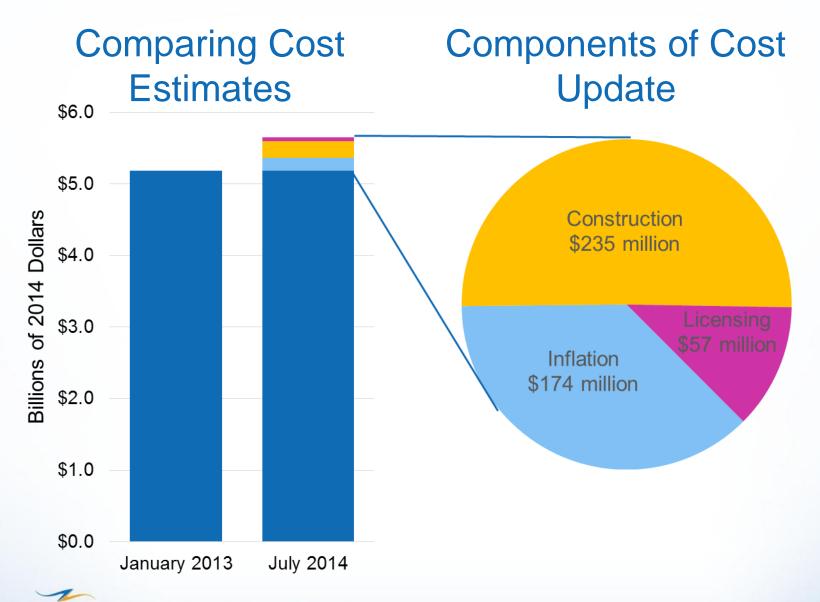
- Board of Consultants Endorsed Roller Compacted Concrete and Dam Configuration
- 2014 drilling confirmed no active faults found at dam site
- Mean Annual Energy 2,800 Gigawatt Hours
- Engineering Feasibility Report January 2015



Project Cost Range



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



SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Comparing 3 Finance Options

Bond & RUS Financing

- AEA Revenue Bonds (30 years, 5% interest, refinanced)
- RUS financing remainder of construction (35 years, 4% interest)
- \$0.074/kWh 50 year average real price

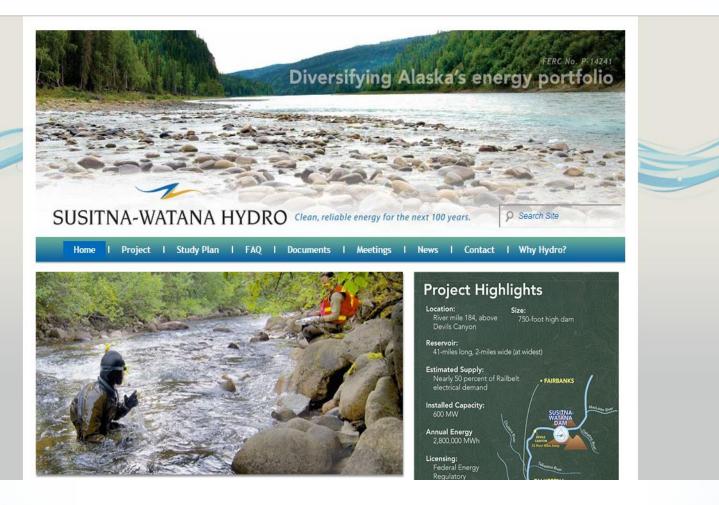
All Bond Financing

- All construction financed with AEA Revenue Bonds (30 years, 5% interest, refinanced)
- \$0.083/kWh 50 year average real price

State Loan & RUS

- State loans (30 year repayment beginning after RUS is paid off, 0% interest)
- RUS financing remainder of construction (35 years, 4% interest)
- Similar to Bradley Lake model
- \$0.041/kWh 50 year average real price





Susitna-WatanaHydro.org



