# ENERGY VISION FOR THE COLUMBIA RIVER BASIN

CHRISTINE GOLIGHTLY, CRITFC

**NWEC FALL CONFERENCE - NOV 17, 2022** 





#### Combined ceded area:

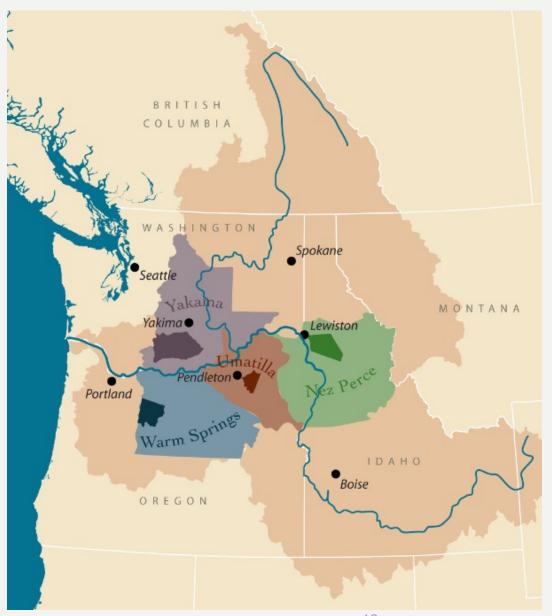
- > 66,591 square miles
- More than 25% of the entire Columbia Basin
- > 55% of the rivers and streams that are still accessible to salmon
- Includes almost all of the salmon habitat above Bonneville Dam











## FATE OF SALMON INTERTWINED WITH THE HYDROPOWER SYSTEM

OXBOW DAM ACCIDENTAL FISH KILL, 1958.

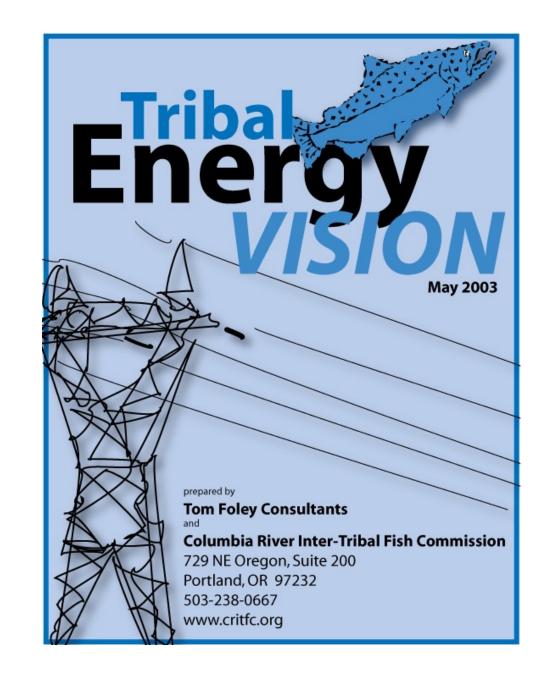


# 2003 TRIBAL ENERGY VISION

Recommendations to avoid another energy shortage that damaged fish and wildlife and the economy.

Prompted by the 2001 NW power shortage that:

- Cost BPA's consumers \$4B
- Resulted in BPA eliminating protection measures for salmon migrating through the dams
- **Cut funding** for fish and wildlife restoration programs



# 2013 ENERGY VISION UPDATE

Focused on reducing hydroelectric dam impacts on salmon populations and decreasing costs for consumers

• Strategies to reduce peak demands, which harm salmon and cost consumers hundreds of millions of dollars to operate expensive resources and expand transmission and distribution systems.

 Identified additional energy efficiency actions that could save hundreds of millions of dollars



#### **2022 TRIBAL ENERGY VISION**

Focused on addressing four interconnected and critical issues:





Salmon at risk of extinction.



Push for quick transition to carbon-free energy



Bad energy planning can make things worse for salmon

#### **VISION**

CRITFC and its member tribes envision a future where the Columbia Basin electric power system:



Supports healthy and harvestable fish and wildlife populations



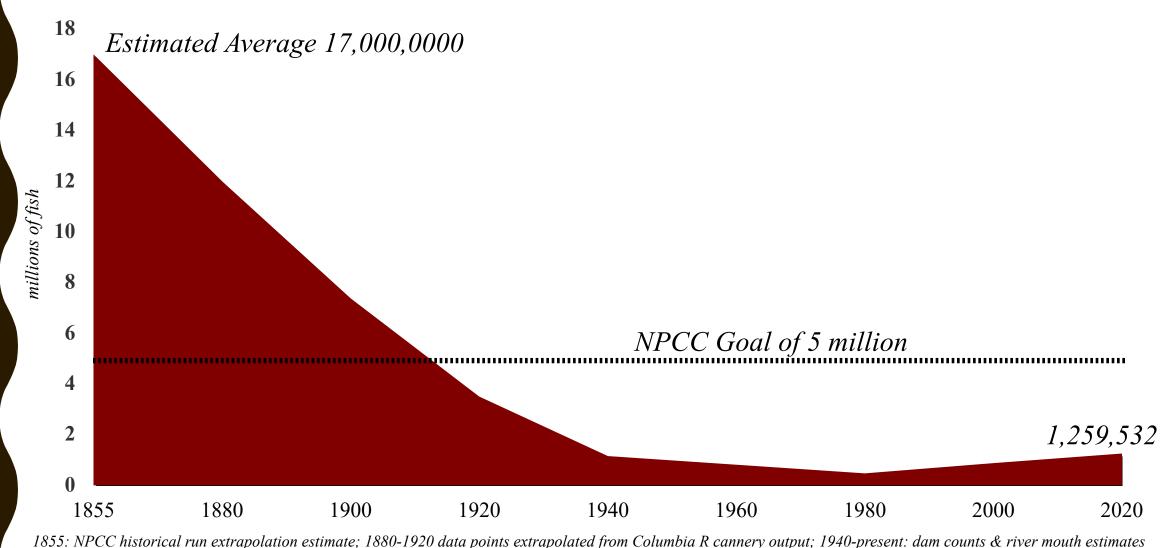
Protects tribal treaty and cultural resources



Provides clean, reliable, and affordable electricity

#### SALMON DECLINE

Returning Columbia River salmon (chinook, steelhead, sockeye, coho)



# SIGNIFICANT NW ENERGY SYSTEM CHANGES ALREADY IN PROGRESS

Stricter policies and standards

State greenhouse emissions policies and standards and federal programs Coal phase out

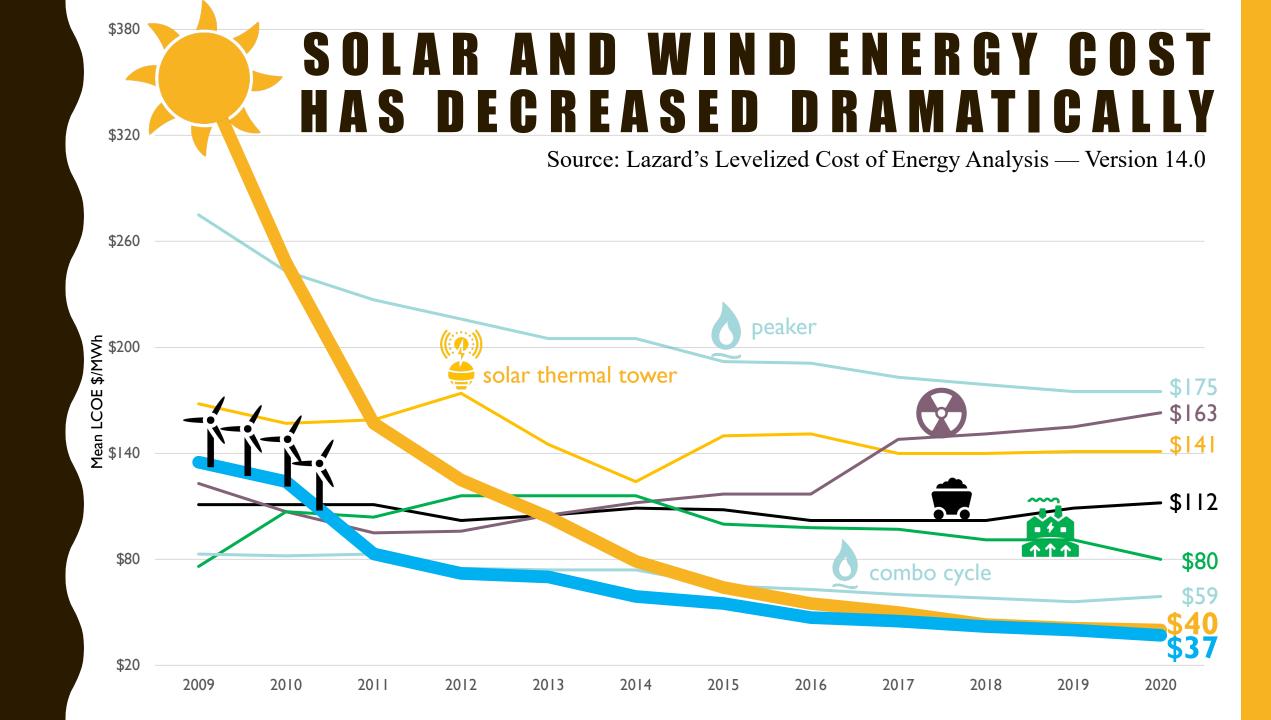
6,000 MW announced by 2028

Another 2,700 MW by 2037

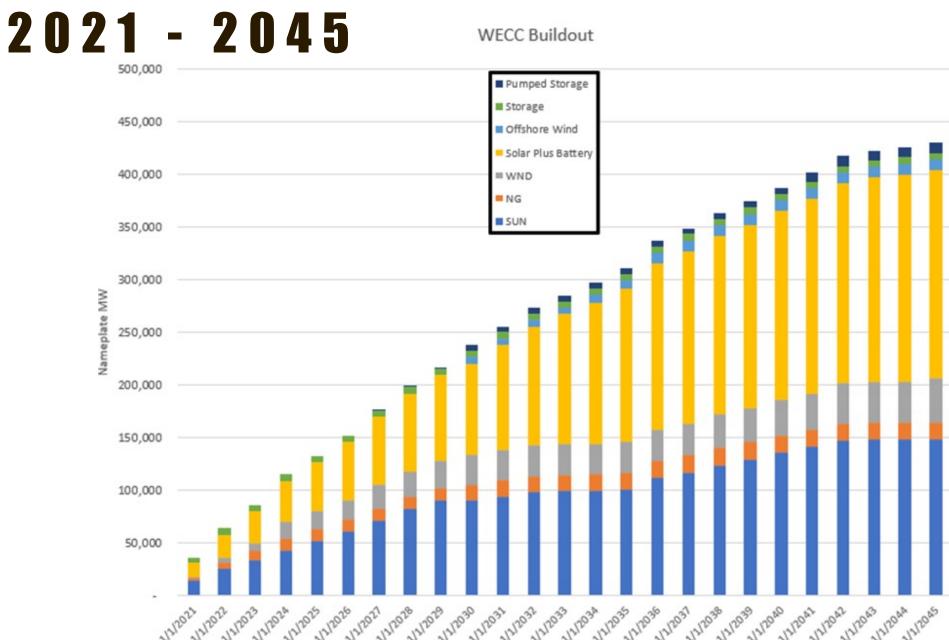
Energy efficiency

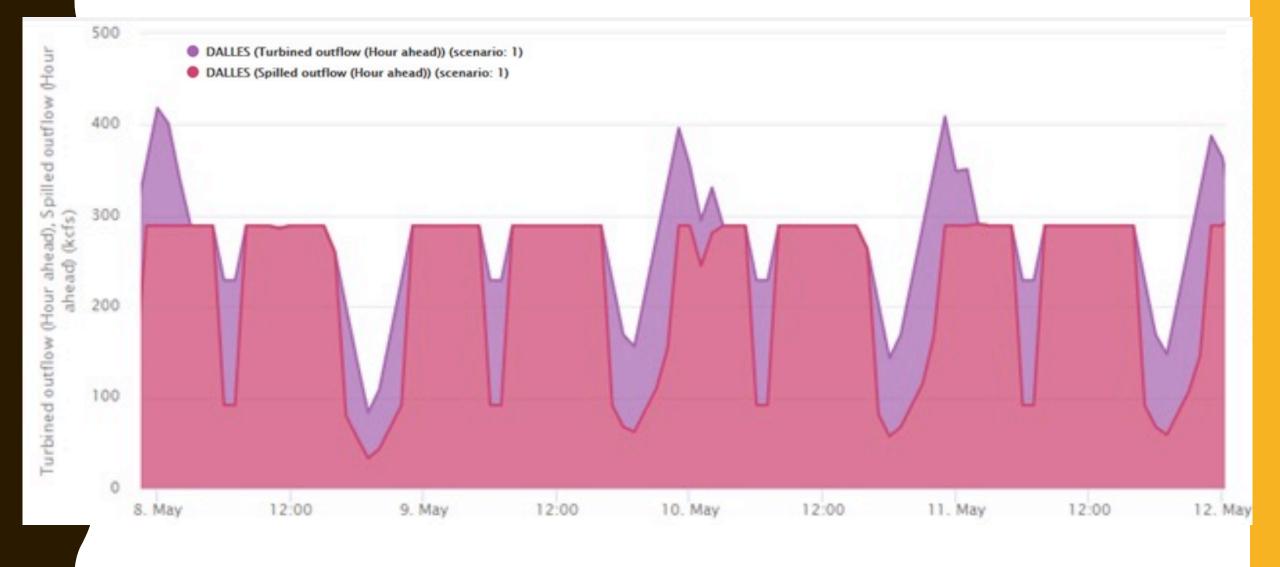
Electricity adequacy issues

- 1,800 MW since 2013
- > 7,000 MW since 1978
- Saved consumers \$70 billion

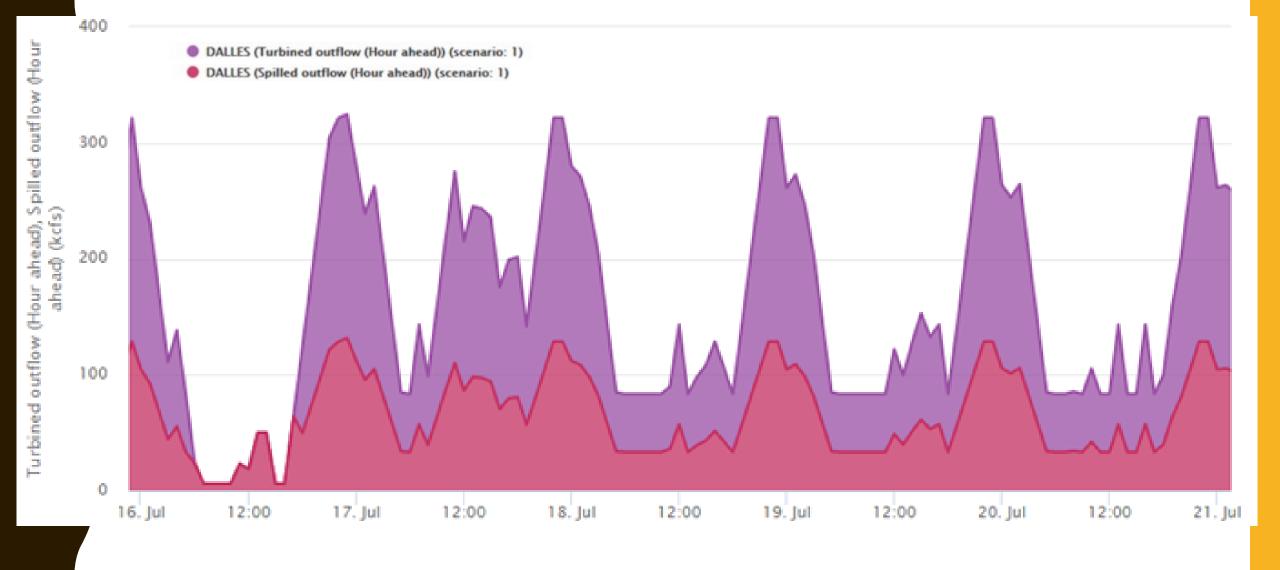


### UTILITY PLANS FOR RENEWABLES





#### 2023 FLOWS AT THE DALLES DAM



#### 2032 FLOWS AT THE DALLES DAM

# NEED TO REDUCE TRANSMISSION AND DISTRIBUTION COSTS

- Energy Vision found that BPA and four largest utilities spent more than **\$8 billion** on transmission and distribution costs from 2016-2020
- Transmission lines damage tribal resources
- Recommendations in the Energy Vision would reduce the need for new transmission and distribution lines—reducing costs and damages
  - Energy efficiency
  - Energy storage
  - Demand management
  - On-site solar systems



# SUMMARY OF 43 ENERGY VISION RECOMMENDATIONS



Improve River Configuration & Operations



Amend the Columbia River Treaty



Reduce Peak Loads



Maximize Energy Efficiency



Harness Renewable Resources



Strategically Site Renewable Resources



Increase Resource Adequacy



Minimize
Transmission
& Distribution
System
Costs



Address the Climate Crisis

# RECOMMENDATIONS THE RIGHT ENERGY AT THE RIGHT PLACE



Strategically Site Renewable Resources Develop a regional plan for where renewable resources should be developed, and where they should not, and to provide expeditious siting with clear and uniform standards across all political subdivisions.



Siting renewable resources near existing transmission lines or close to electricity loads will reduce costs for consumers and damage to tribal resources.



**Expand on-site solar systems** to provide reliability and cost benefits to consumers and reduce the need for new resources and power lines that damage habitat and other tribal resources.

#### **RECOMMENDATION 31**

CRITFC and its member tribes should work with state energy and siting agencies, federal agencies, Northwest Grid, the Northwest Power Pool, and others to develop a comprehensive plan for siting renewable resources and transmission lines that builds in efforts currently being developed in the states.



## QUESTIONSP

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