DOCKETED	
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Description:	S1.2C Ben Kujala, NW Power & Conservation Council
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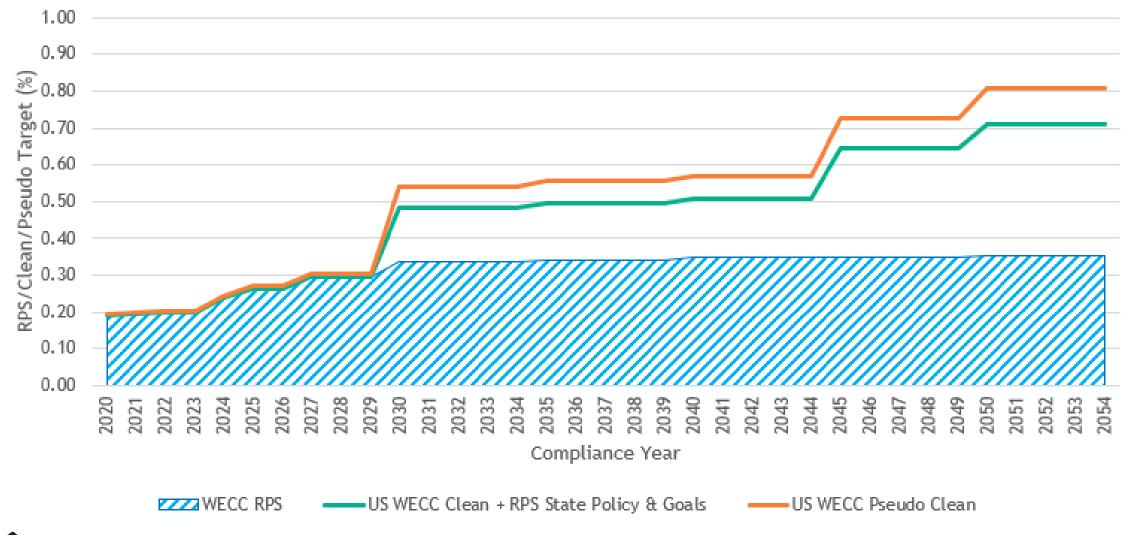
The Northwest Power and Conservation Council

The 1980 Northwest Power Act authorized Idaho, Montana, Oregon, and Washington to develop a regional power plan and fish and wildlife program to balance the Northwest's environment and energy needs.

- Each state legislature passed laws to form the NWPCC
- The governors of each state appoints two Council Members
- Predominantly funded by rates collected by Bonneville

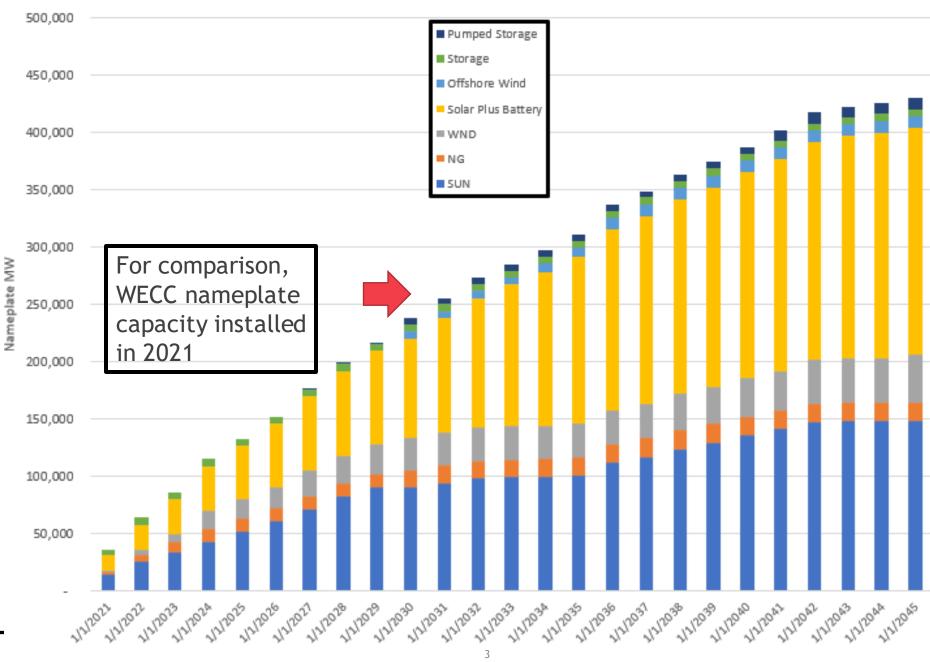


US WECC Clean Targets - Assuming 100% state sales (upd. July 2021)





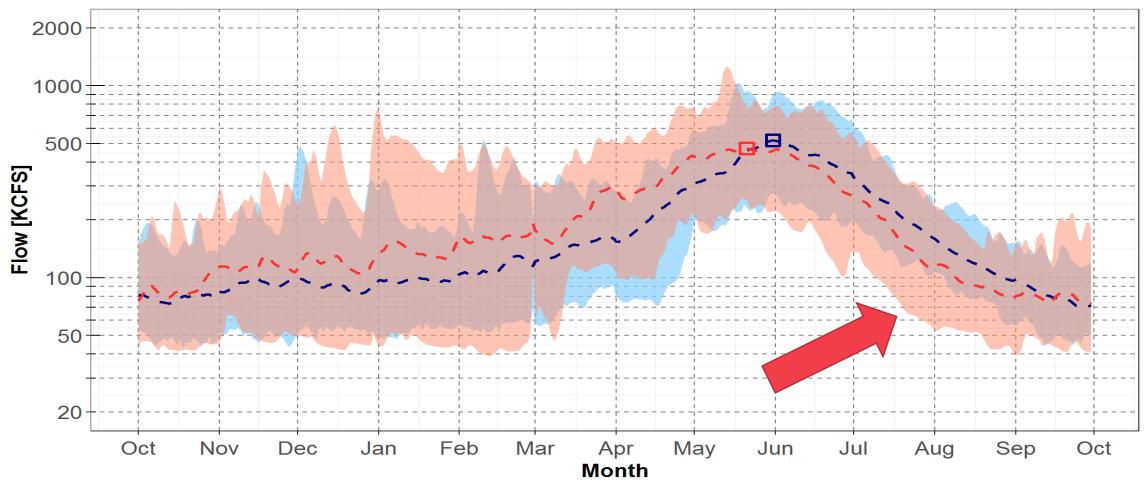
WECC Buildout

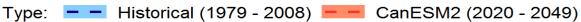




THE 2021 NORTHWEST POWER PLAN

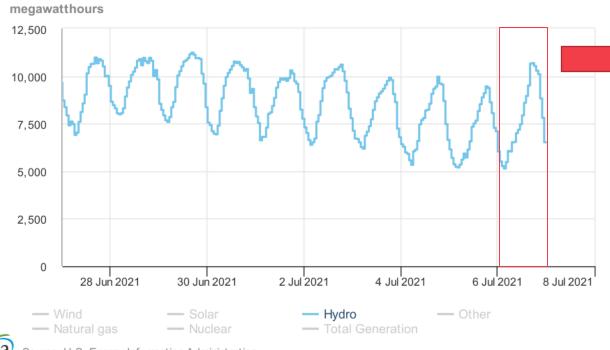
Maximum, Minimum and Average TDA Modified Flows for Historical (1979 - 2008) and CanESM2 (2020 - 2049)





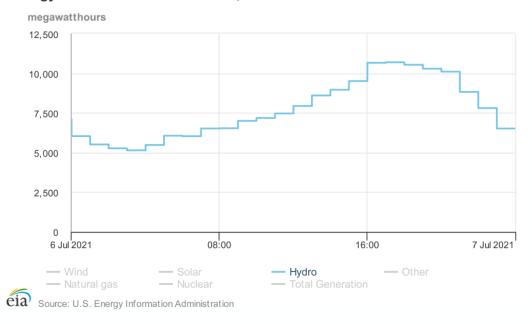


Bonneville Power Administration (BPAT) electricity generation by energy source 6/27/2021 - 7/7/2021, Pacific Time





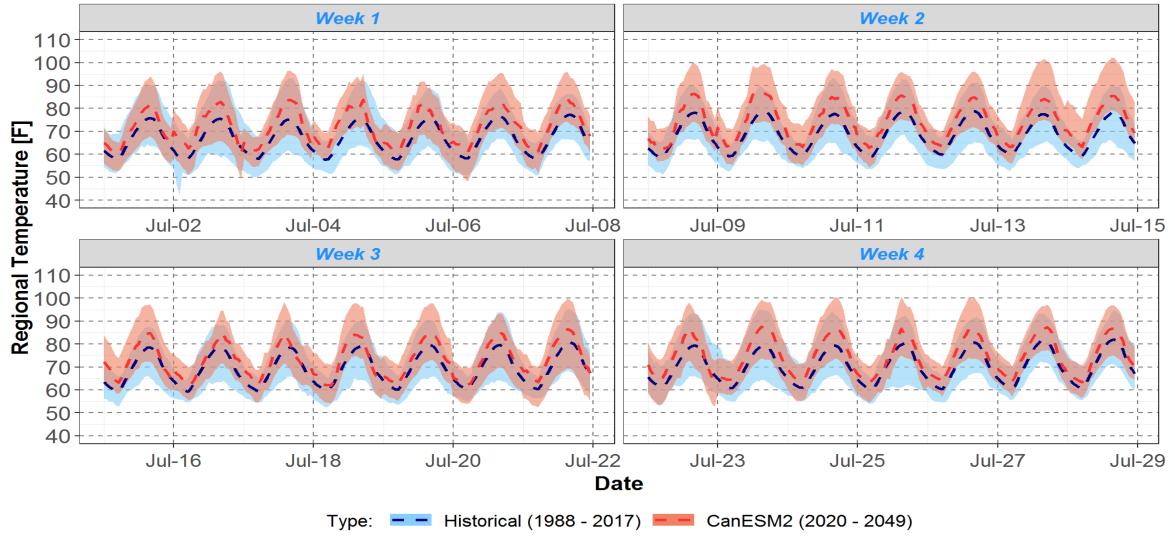
Bonneville Power Administration (BPAT) electricity generation by energy source 7/6/2021 - 7/6/2021, Pacific Time





THE 2021 **NORTHWEST**

Jul Envelope and Average Hourly Temperatures for Historical Time Period (1988 - 2017) and CanESM2 (2020 - 2049)





Uncertainty in Power Planning Abounds

- Clean and renewable policy requirements indicate an unprecedented transformation of how electricity is generated is inevitable and already underway
- Targets for reductions in greenhouse gas emissions could add substantial demand for electricity
- Recent Pacific Northwest heatwave substantially exceeded historic observed temperatures leading to record-setting electric demand throughout the region
- Adaptation of the existing system, including hydropower generation needs further study

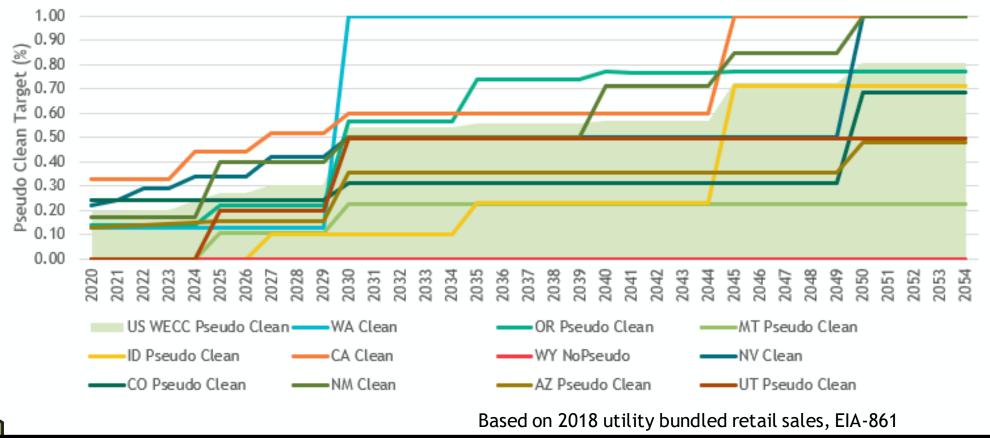




Extra Slides for Reference

Clean Policy + RPS + Utility/Community Goals: US WECC Aggregate Pseudo Clean Target

US WECC Pseudo Clean - Assuming 100% state sales (upd. Jul 2021)





THE 2021 NORTHWEST