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<td><strong>Docket Number:</strong></td>
<td>21-IEPR-04</td>
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<tr>
<td><strong>Project Title:</strong></td>
<td>Energy Reliability</td>
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<td><strong>TN #:</strong></td>
<td>238747</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - The Northwest Power and Conservation Council</td>
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<tr>
<td><strong>Description:</strong></td>
<td>S1.2C Ben Kujala, NW Power &amp; Conservation Council</td>
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<td><strong>Filer:</strong></td>
<td>Raquel Kravitz</td>
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<td><strong>Organization:</strong></td>
<td>Northwest Power and Conservation Council</td>
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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
For comparison, WECC nameplate capacity installed in 2021.
Maximum, Minimum and Average TDA Modified Flows for Historical (1979 - 2008) and CanESM2 (2020 - 2049)

Flow [KCF]s

Month

Type: Historical (1979 - 2008) CanESM2 (2020 - 2049)
Jul Envelope and Average Hourly Temperatures for Historical Time Period (1988 - 2017) and CanESM2 (2020 - 2049)

Week 1

Week 2

Week 3

Week 4

Regional Temperature [°F]

Date

Type:  
- 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
Questions?

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https://www.linkedin.com/in/kujala/
Clean Policy + RPS + Utility/Community Goals: US WECC Aggregate Pseudo Clean Target

Based on 2018 utility bundled retail sales, EIA-861