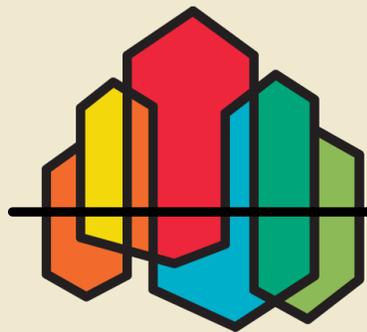


Regional Power Planning: Resource Adequacy and Renewable Energy Development

Oregon House Interim Committee on Environment and Natural Resources

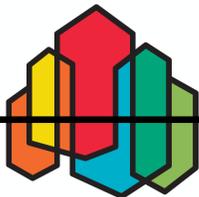


THE 2021
NORTHWEST
POWER PLAN

FOR A SECURE & AFFORDABLE
ENERGY FUTURE

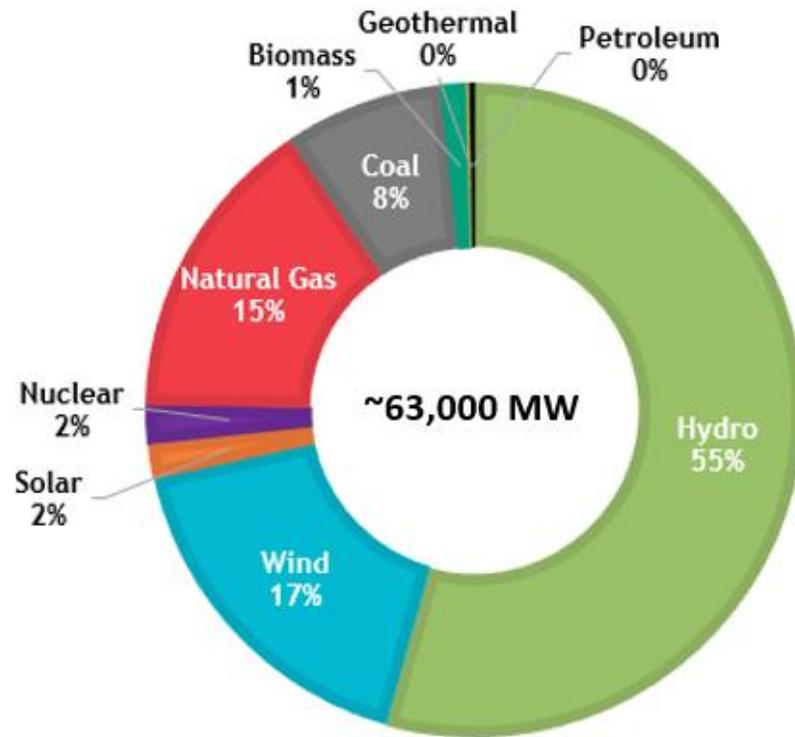
The Council's Power Plan—Abbreviated

- **Purpose:** Ensure an adequate, efficient, economical, and reliable regional power system over the next 20 years
- **Use:**
 - Bonneville's decisions on resource acquisitions are to be consistent with the power plan
 - An independent reference for the region's utilities, regulatory commissions, and policymakers
- **Components** in three bullets:
 - Forecast regional electricity demand and analyze available resources—modeled uncertainty
 - Identify cost-effective new resource strategy—least cost with acceptable risk, and priority given first to cost-effective conservation
 - Council's Fish and Wildlife Program is a part of the plan—plan's resource strategy intended to help implement

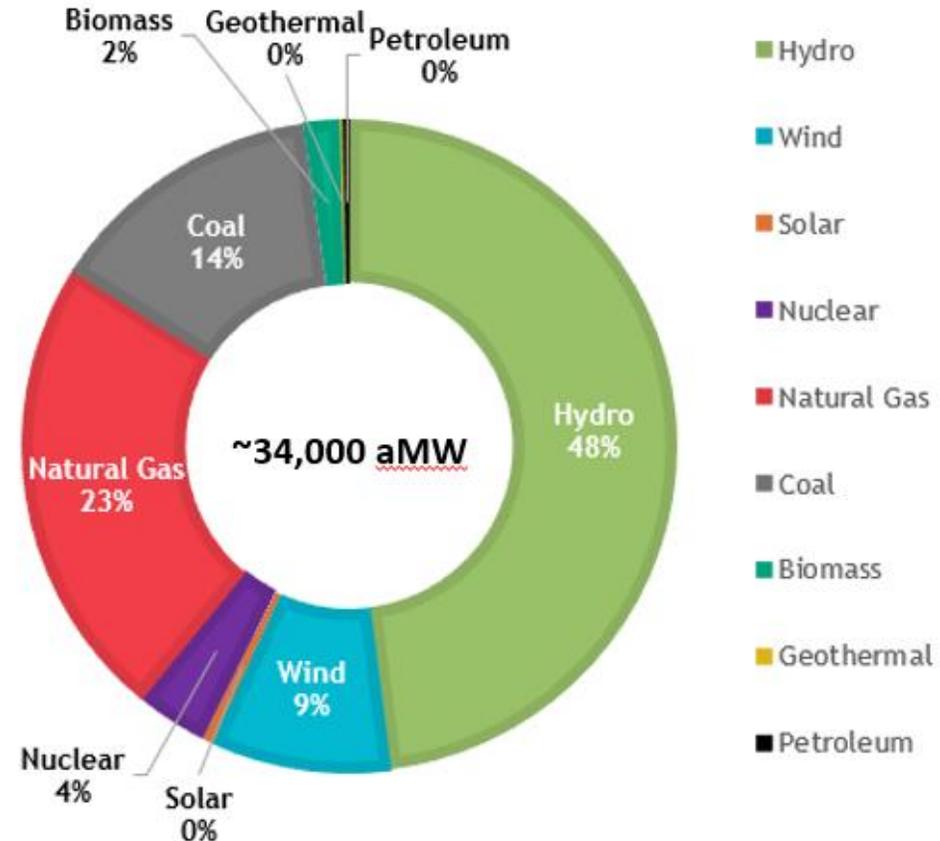


What Generates Electricity in the Northwest?

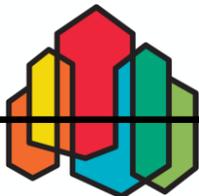
Existing System – Installed Nameplate Capacity (MW)



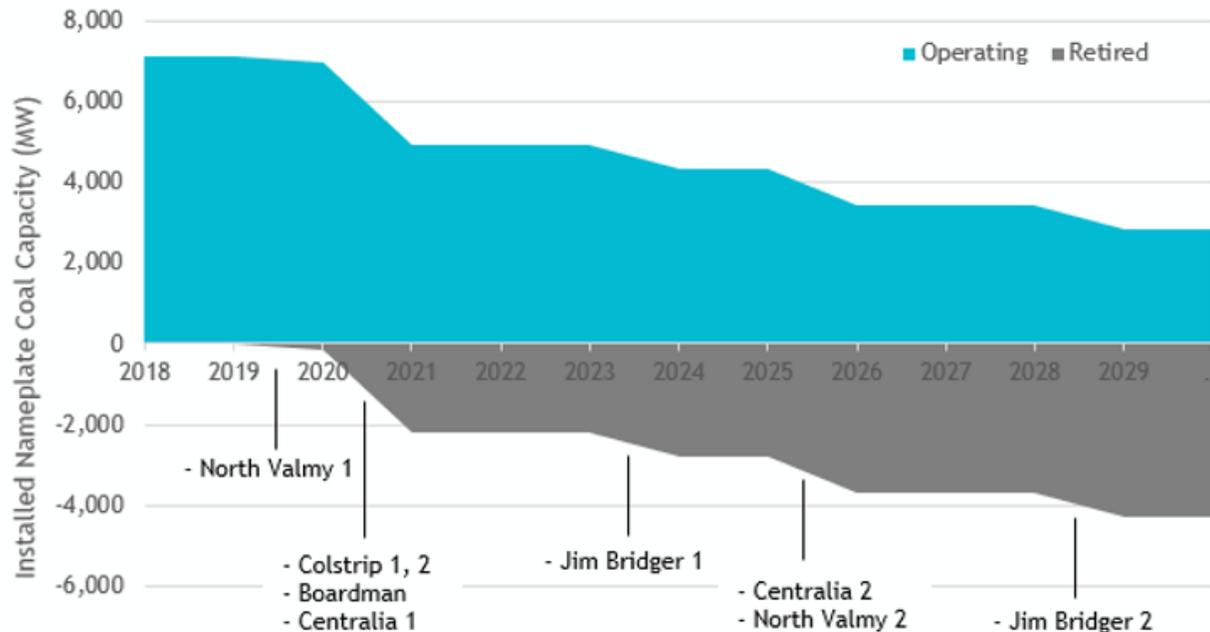
Existing System – Capability (aMW)



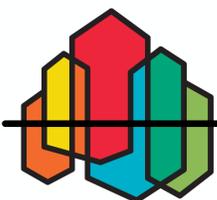
Supporting Materials: [Existing System Supply: Capacity, Capability, and Dispatch](#)



PNW: Planned Coal Unit Retirements



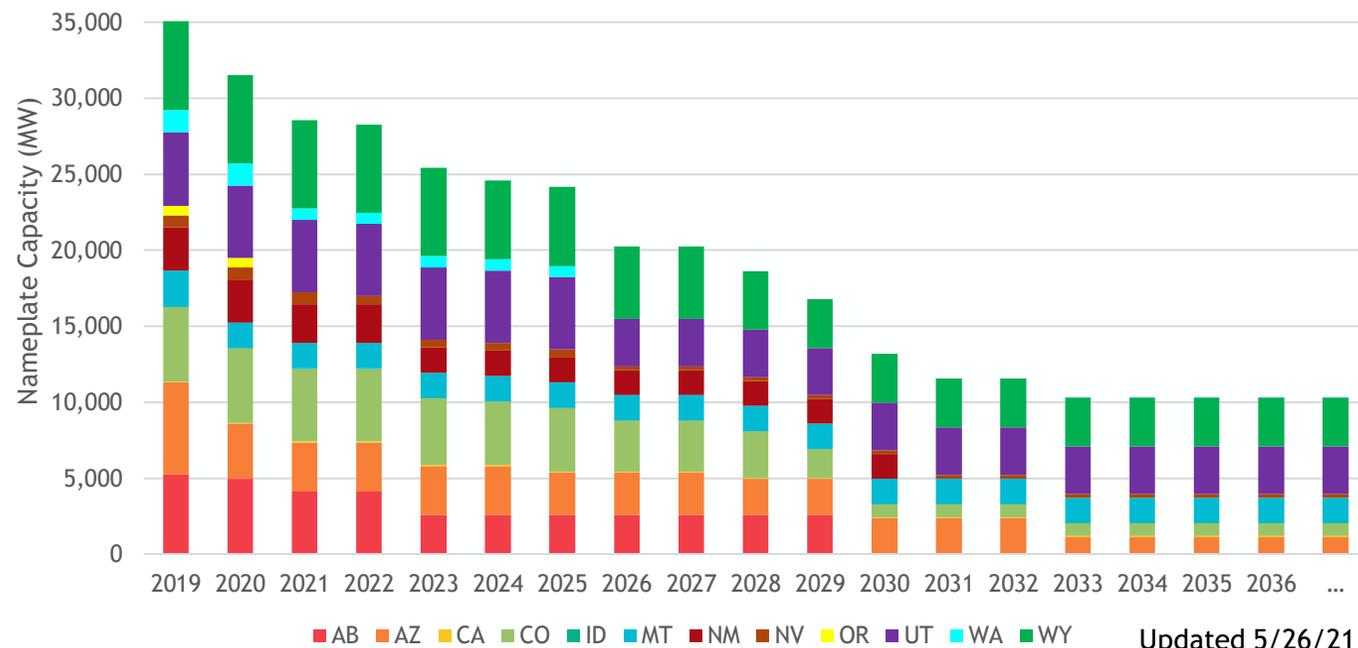
By 2028, the Pacific Northwest will have retired ~ 4,400 megawatts of its coal capacity, leaving just four units in operation (Colstrip 3, 4 and Jim Bridger 3, 4)



Coal Unit Retirements

By 2030, WECC will have about 40% of the installed coal capacity it had in operation in 2019, going from ~35,000 megawatts to ~13,500 megawatts in just over a decade

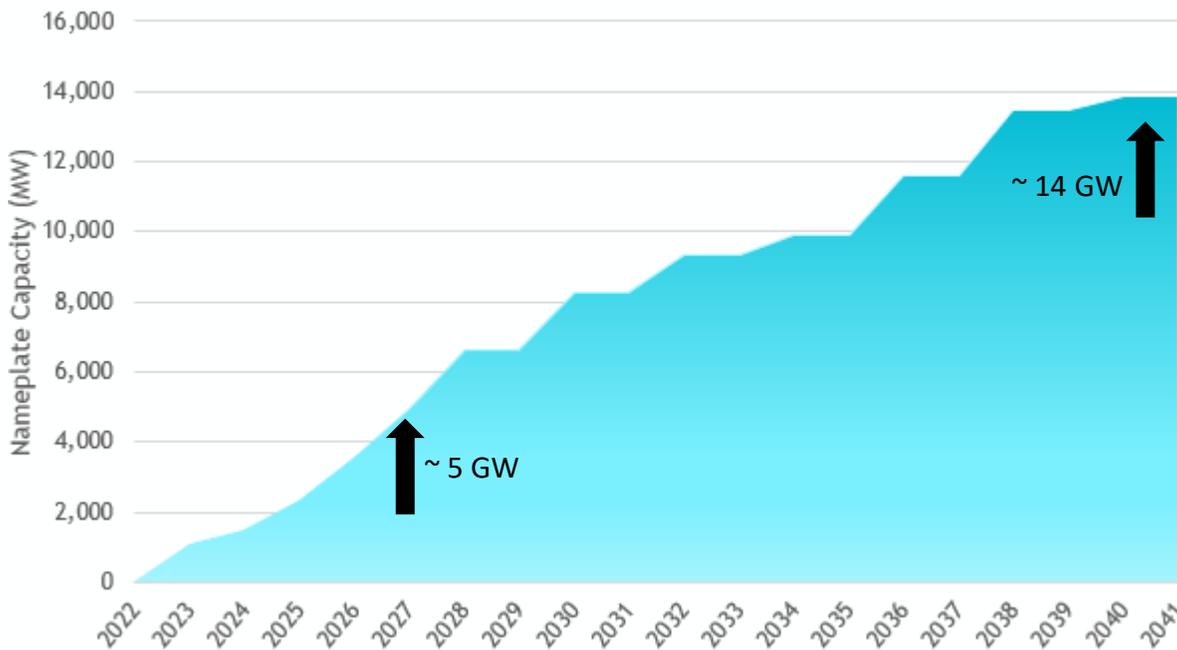
WECC Coal Operating Capacity - By State/Province



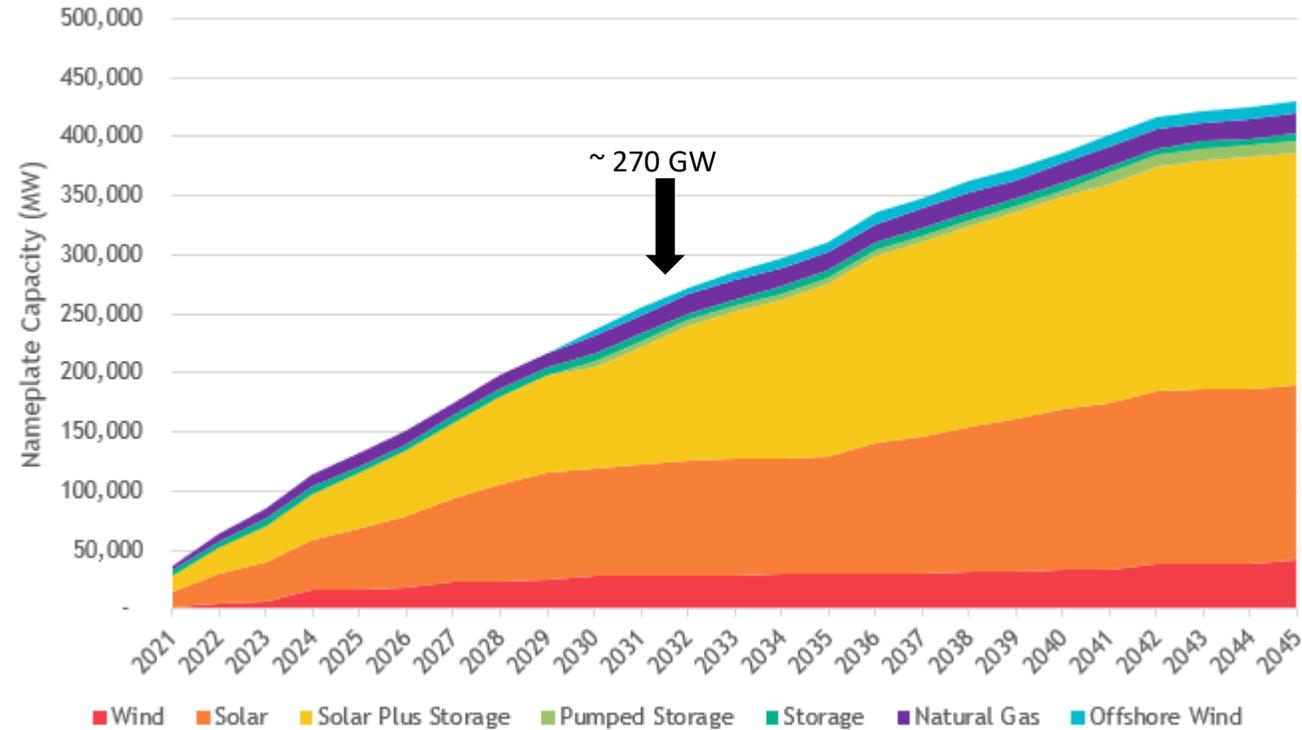
Potential Buildout* of New Resources – Region & WECC

Roughly 5 GW of new renewable resources acquired in Pacific Northwest (Power Act Region) in the action plan period

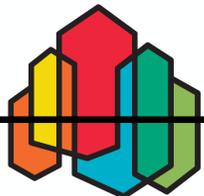
Average Renewable Build in the Region - Baseline Conditions



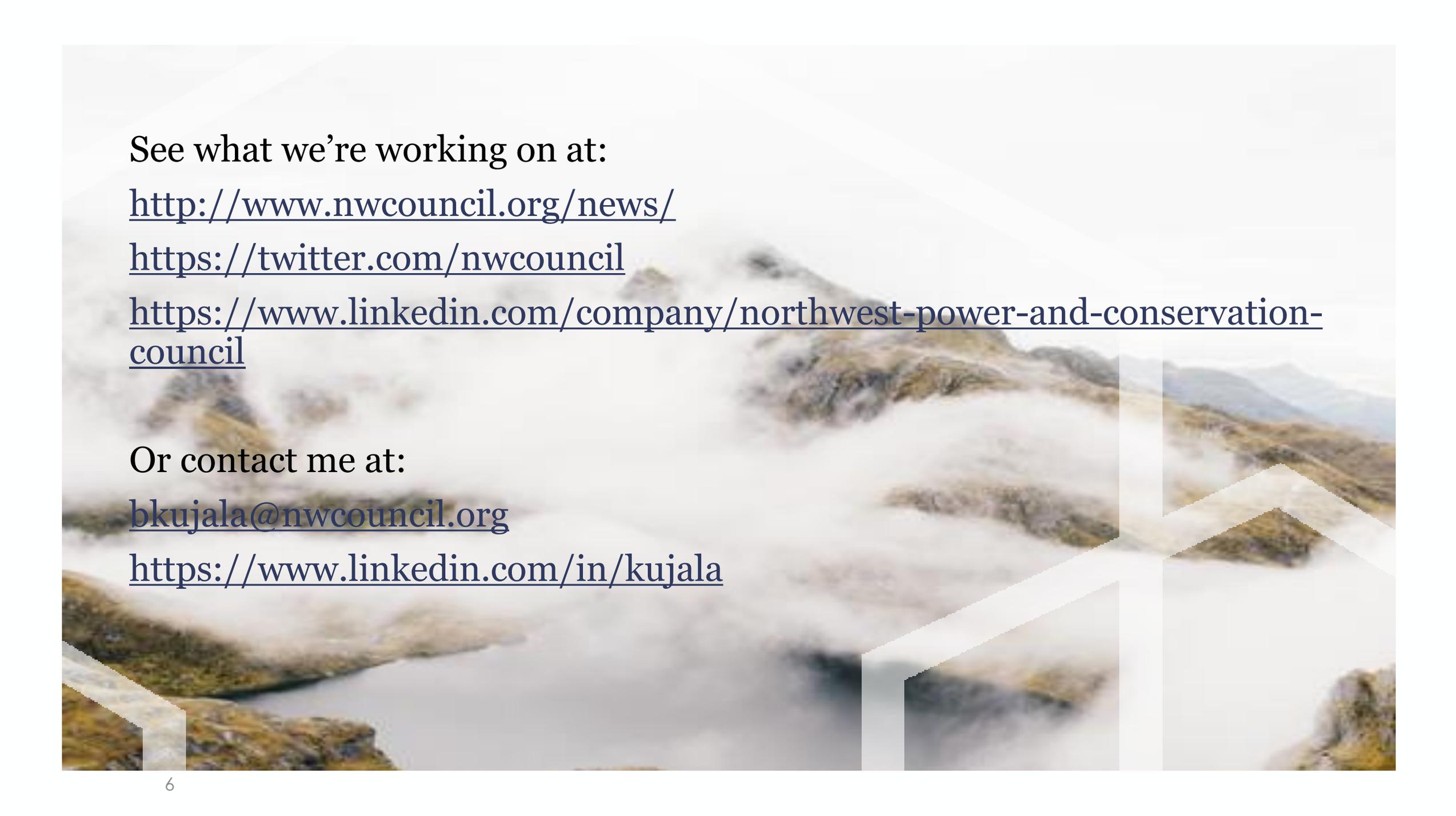
Buildout of New Resources in the West - Baseline Conditions



Roughly 200 GW of new resources acquired across the WECC by 2028
(For reference, the installed nameplate capacity in 2020 was ~270 GW)



*Analyses from draft 2021 Power Plan, baseline conditions



See what we're working on at:

<http://www.nwcouncil.org/news/>

<https://twitter.com/nwcouncil>

<https://www.linkedin.com/company/northwest-power-and-conservation-council>

Or contact me at:

bkujala@nwcouncil.org

<https://www.linkedin.com/in/kujala>