City Council Workshop Agenda
August 13, 2024 at 6:30 PM
City Hall Council Chambers - 210 W 6th Ave and Virtual

The City of Kennewick broadcasts Council meetings on the City's website at https://www.go2kennewick.com/CouncilMeetingBroadcasts.
Written public comment is accepted pursuant to KMC 2.04.047.

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1. Call to Order
2. Update: Benton Public Utility District (PUD)
3. Water Follies After Action Report
4. Letter of Support: Salvation Army Proposed Tri-Cities Salvation Army Community Center
5. Executive Session: Pursuant to RCW 42.30.110(1)(c) - To Consider the Minimum Price of Real Estate Offered for Sale or Lease
6. Adjourn

To assure disabled persons the opportunity to participate in or benefit from City services, please provide twenty-four (24) hour advance notice for additional arrangements to reasonably accommodate special needs. Please be advised that all Kennewick City Council Meetings are Audio and Video Taped

Council Agenda Coversheet	Item Number:	2.	Date:	8/13/2024	Category:
	Item Type:	Presentation			
	Subject:	Update: Benton Public Utility District (PUD)			
	Department:	City Manager			

Summary

Rick Dunn of Benton County PUD will be in attendance to present local and state energy updates.

Attachments:

1. Presentation

Planning for 100% Clean Electricity in Washington State

Rick Dunn, General Manager

August 13, 2024

BENTON P·U·D
Your Trusted Energy Partner

Agenda

1. **Northwest Close to Blackouts** – How did we get here?
2. **Washington's Clean Energy Policies** – Global & U.S. Perspectives
3. **Washington's Energy Strategy** – Challenges & Concerns
4. **Where Do We Go from Here?** – Near and Long Term

Northwest Close to Blackouts

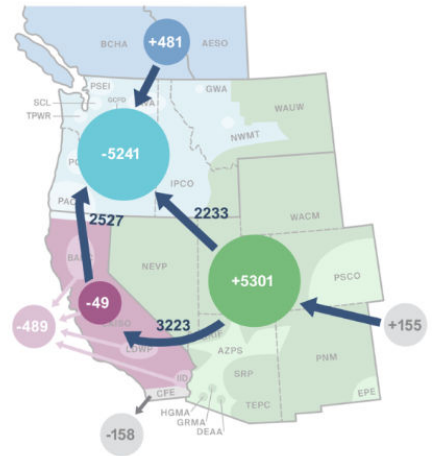
TOP STORY

Winter Storm Pushed Northwest Close to Rolling Blackouts

Steve Ernst Mar 22, 2024

CLEARING UP
An Independent News Service from NewsData

Regional Net Imports & Exports, All Hours



Source: OASIS Transaction Schedules (scheduledetail), BPA Transmission Operations Data (AC Intertie Path data), Form EIA-930 Interchange data, CAISO OASIS.

January 12 – 16, 2024

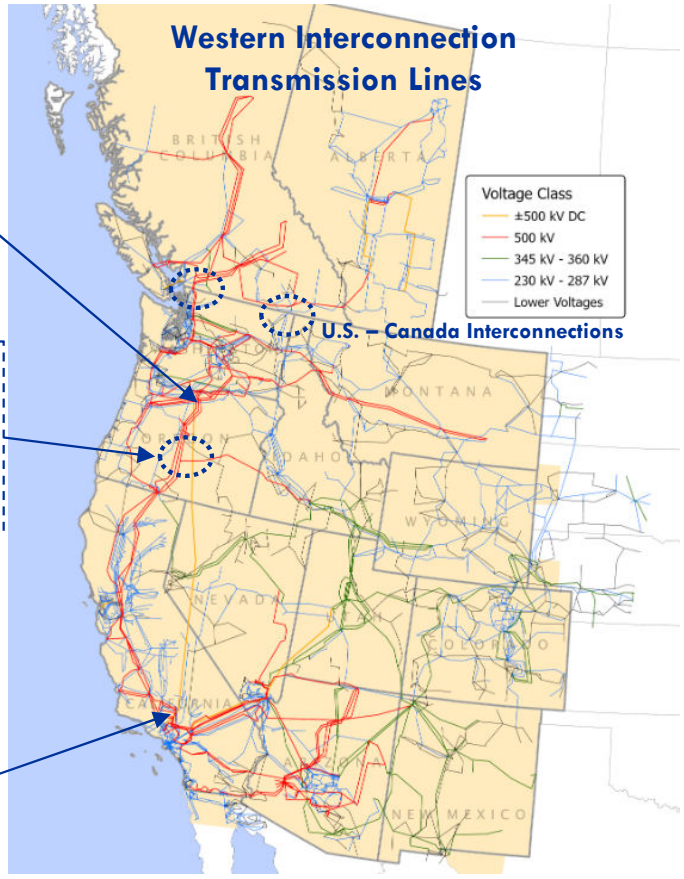
- Northwest Imported Electricity for all 120 Hours of Cold Snap
- Hydro was short on water
- +2,000 MW of coal retirements so far
- Demand grew 2% to 6% since December 2022 winter event

Northwest has long exported electricity to California

Pacific HVDC North Terminal near The Dalles

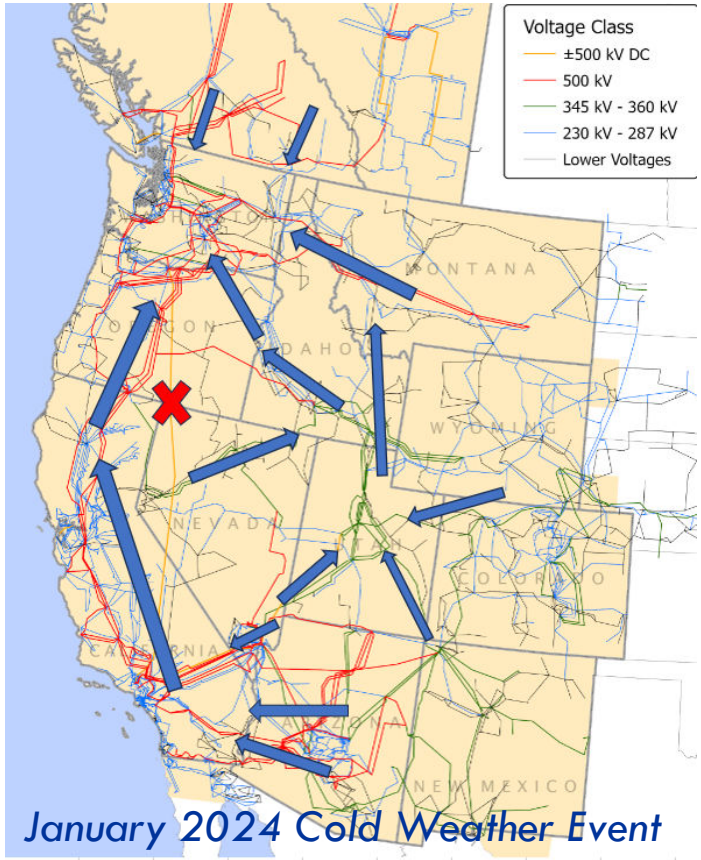
Pacific HVDC South Terminal near Los Angeles

Pacific DC & AC Interties 8,000 MW

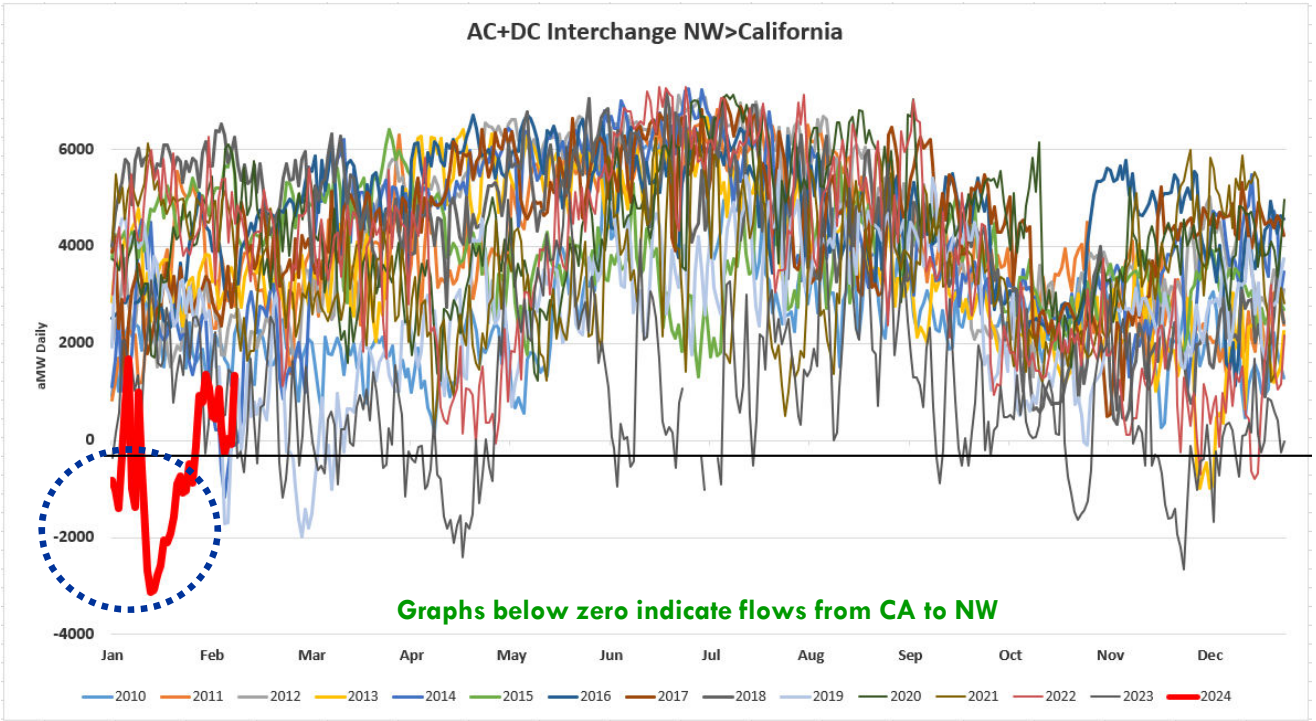


- ✓ Pacific Interties went into service 1968 - 1970
- ✓ Path for Hydropower surpluses in the Northwest to flow to California
- ✓ High Voltage Direct Current (DC) allows more precise control of power flow and lower losses; but more complicated

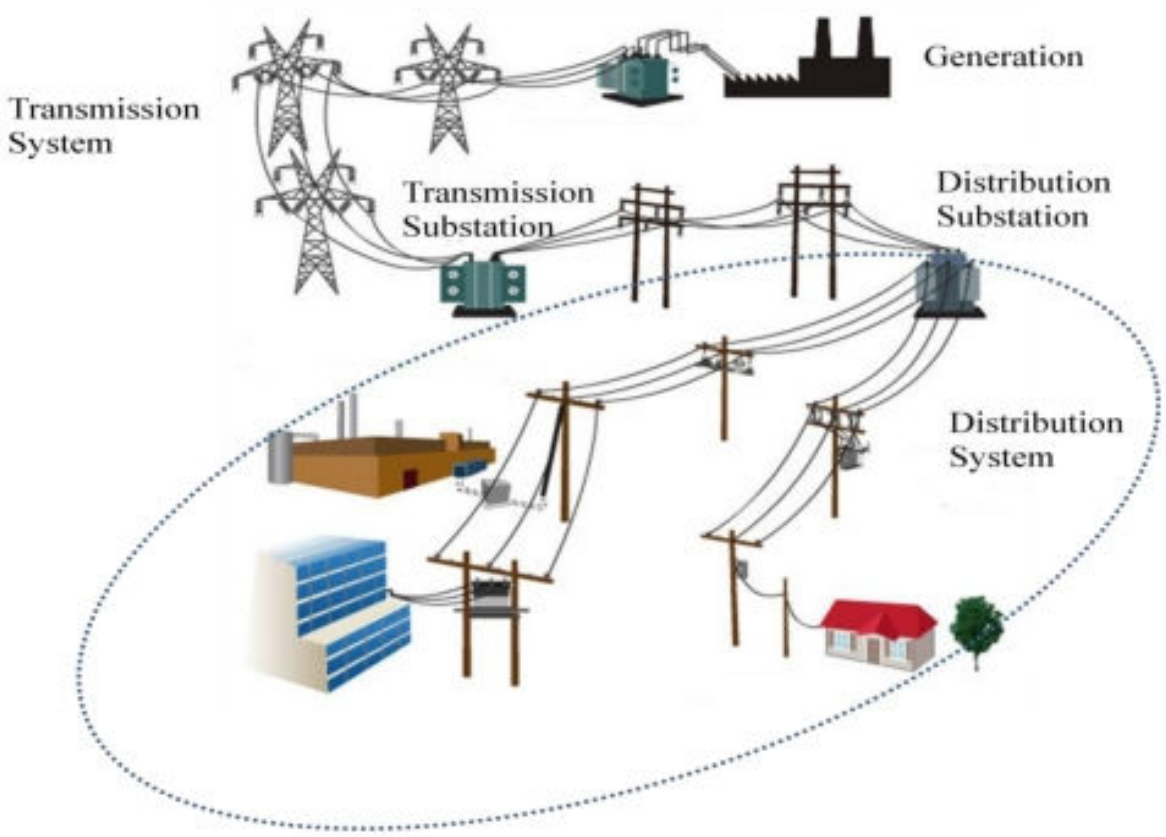
Northwest Beginning to Import Electricity from CA



January 2024 Cold Weather Event



Power Grid Basics: A Service Like No Other!



Electricity is simultaneously:

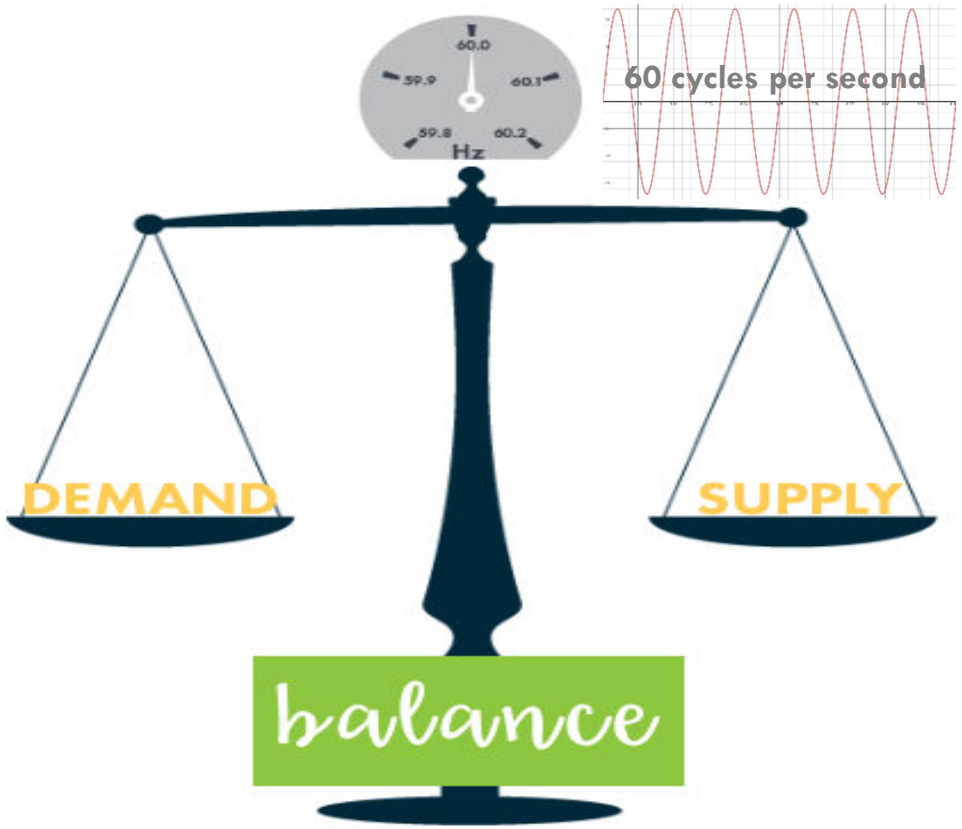
Produced

Delivered

Consumed

Demand/Supply Balancing: Physics

Electrical Demand and Supply Must Be Equal at All Times



- ✓ **'Cruise Control' set at 60**
- ✓ **The Laws of Power Grid Physics are Unforgiving**
- ✓ **Consequences of not maintaining supply & demand balance are blackouts**

Controllable Supply: Avoids Blackouts

"Effective" Capacity = % of Installed Nameplate Generation that can be Counted on During Hours of Maximum Demand

Controllable
High
Effective Capacity

Uncontrollable
Low
Effective Capacity

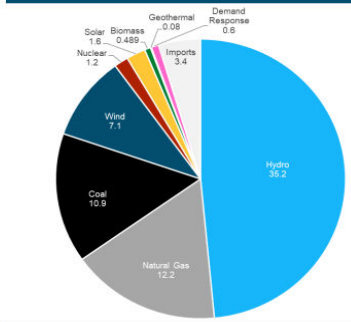
PacNW Existing Resources
2018

Load + Resource Balance (Greater NW = WA, OR, ID, parts of UT, WY)

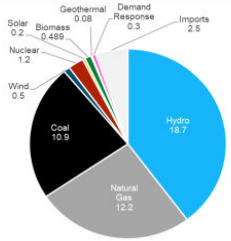
Load			Load GW
Peak Load			42.1
Firm Exports			1.1
PRM (12%)			5.2
Total Requirement			**48.4**
Resources	**Nameplate GW**	**Effective %**	**Effective GW**
Coal	10.9	100%	10.9
Gas	12.2	100%	12.2
Biomass & Geothermal	0.6	100%	0.6
Nuclear	1.2	100%	1.2
Demand Response	0.6	50%	0.3
Hydro	35.2	53%	18.7
Wind	7.1	7%	0.5
Solar	1.6	12%	0.2
Storage	0	—	0
Total Internal Generation	**69.1**		**44.7**
Firm Imports	3.4	74%	2.5
Total Supply	**72.5**		**47.2**
Surplus/Deficit			
Capacity Surplus/Deficit			**-1.2**

Source: E3 Resource Adequacy in the Pacific Northwest, 2019
Note: other top-down analyses (e.g. NWPCC) suggest need starting in the 2020-2021 timeframe.

Nameplate GW

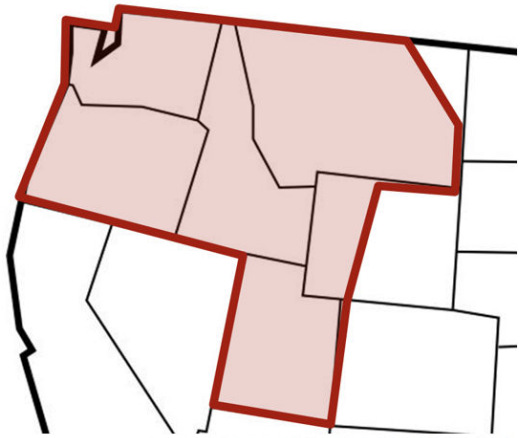


Effective GW



Fossil units are 1/3 of nameplate but 1/2 of effective GW

Energy+Environmental Economics 12



Balancing Authority Areas include: Avista, Bonneville Power Administration, Chelan County PUD, Douglas County PUD, Grant County PUD, Idaho Power, NorthWestern Energy, PacifiCorp (East & West), Portland General Electric, Puget Sound Energy, Seattle City Light, Tacoma Power, Western Area Power Administration

Coal & Natural Gas
✓ **50% of Effective Capacity**
Hydro
✓ **40% of Effective Capacity**

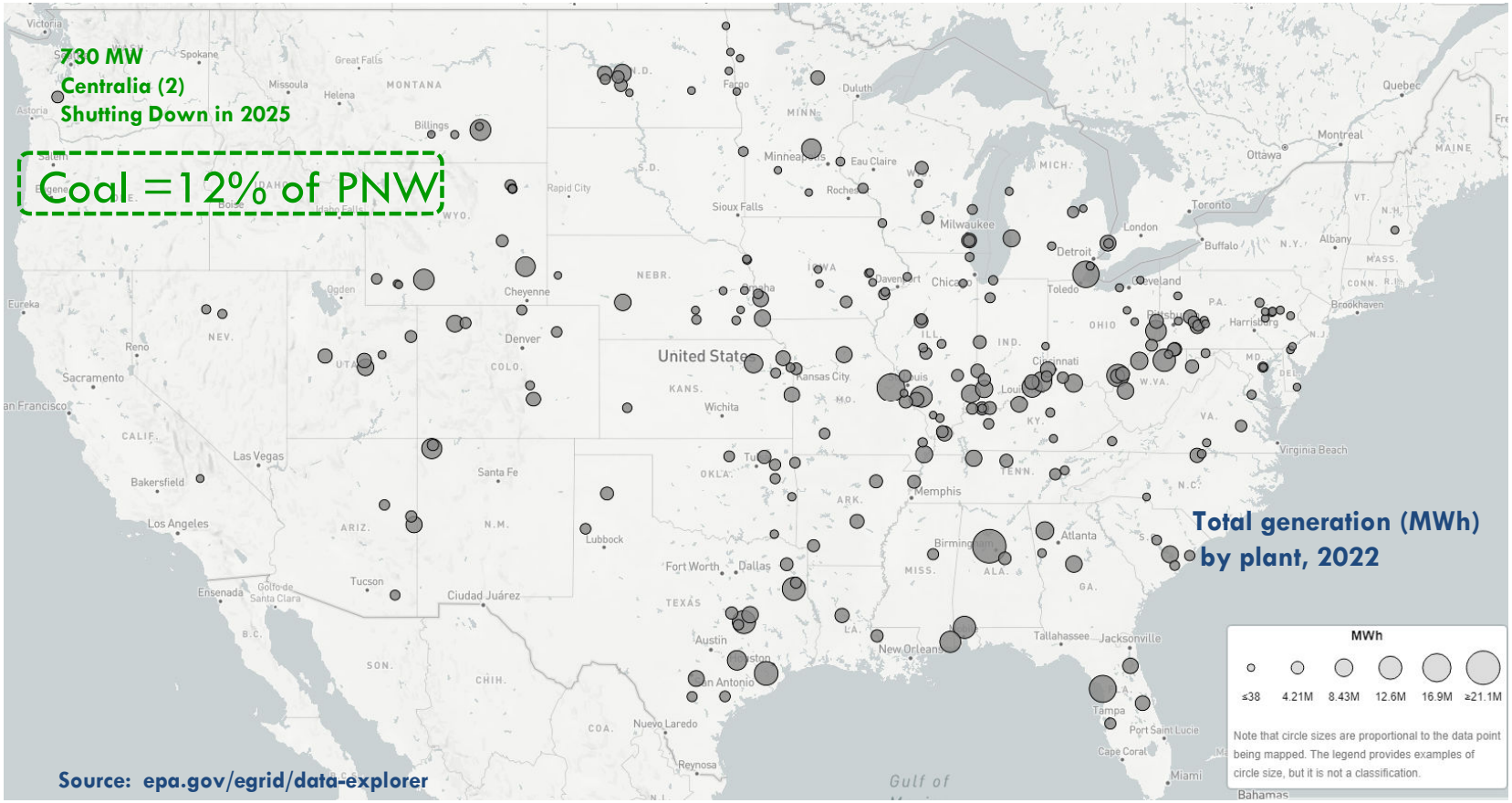
Coal = 19.5% of U.S. Electricity

NW Coal Plant Closures

✓ **2,776 MW** by 2025

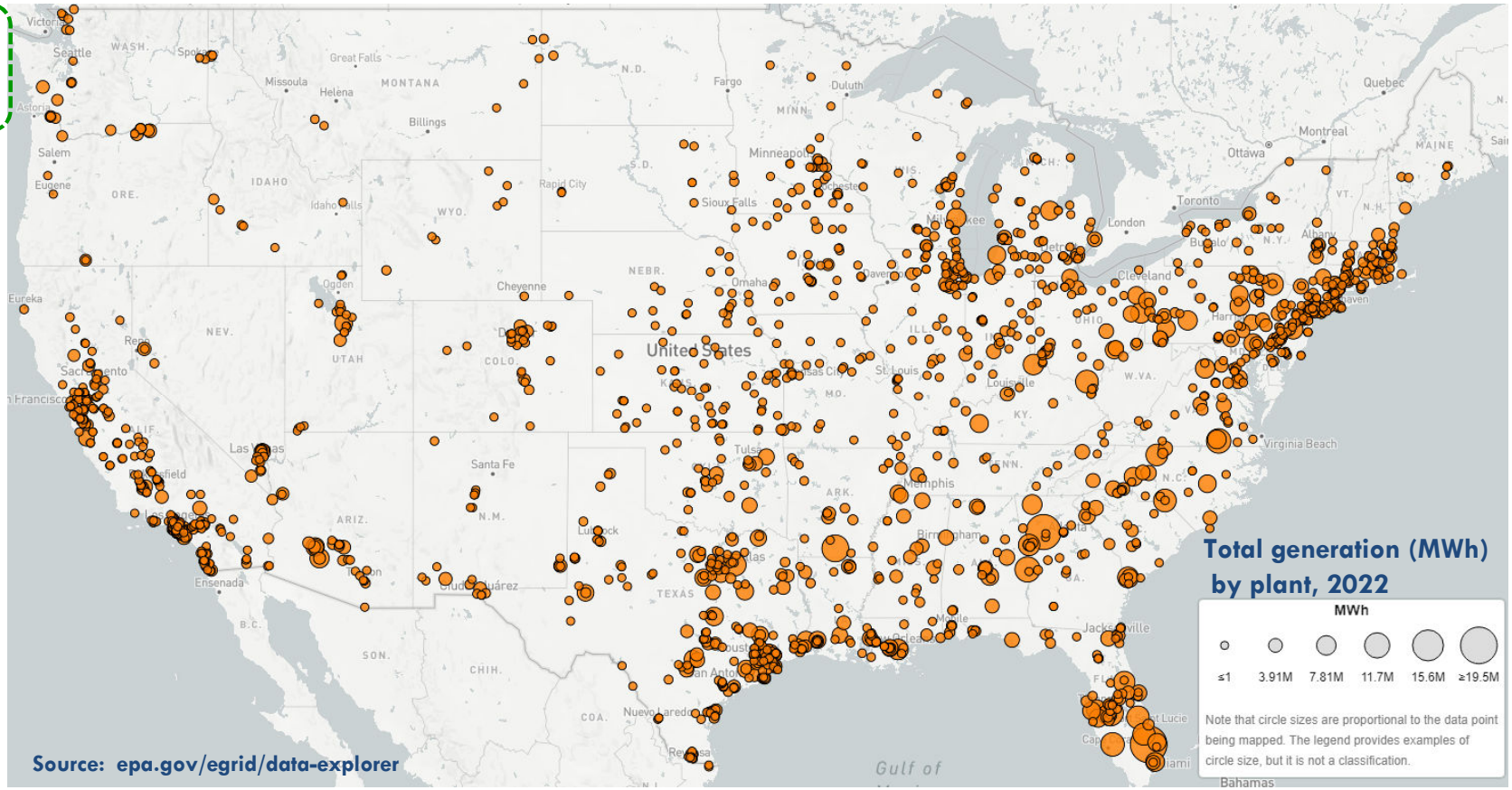
1) **Colstrip(1) 716 MW in 2019**
2) **Centralia(1) 730 MW in 2020**
3) **Boardman 600 MW in 2020**
4) **Centralia(2) 730 MW in 2025**

✓ Another **+3,000 MW** in Question



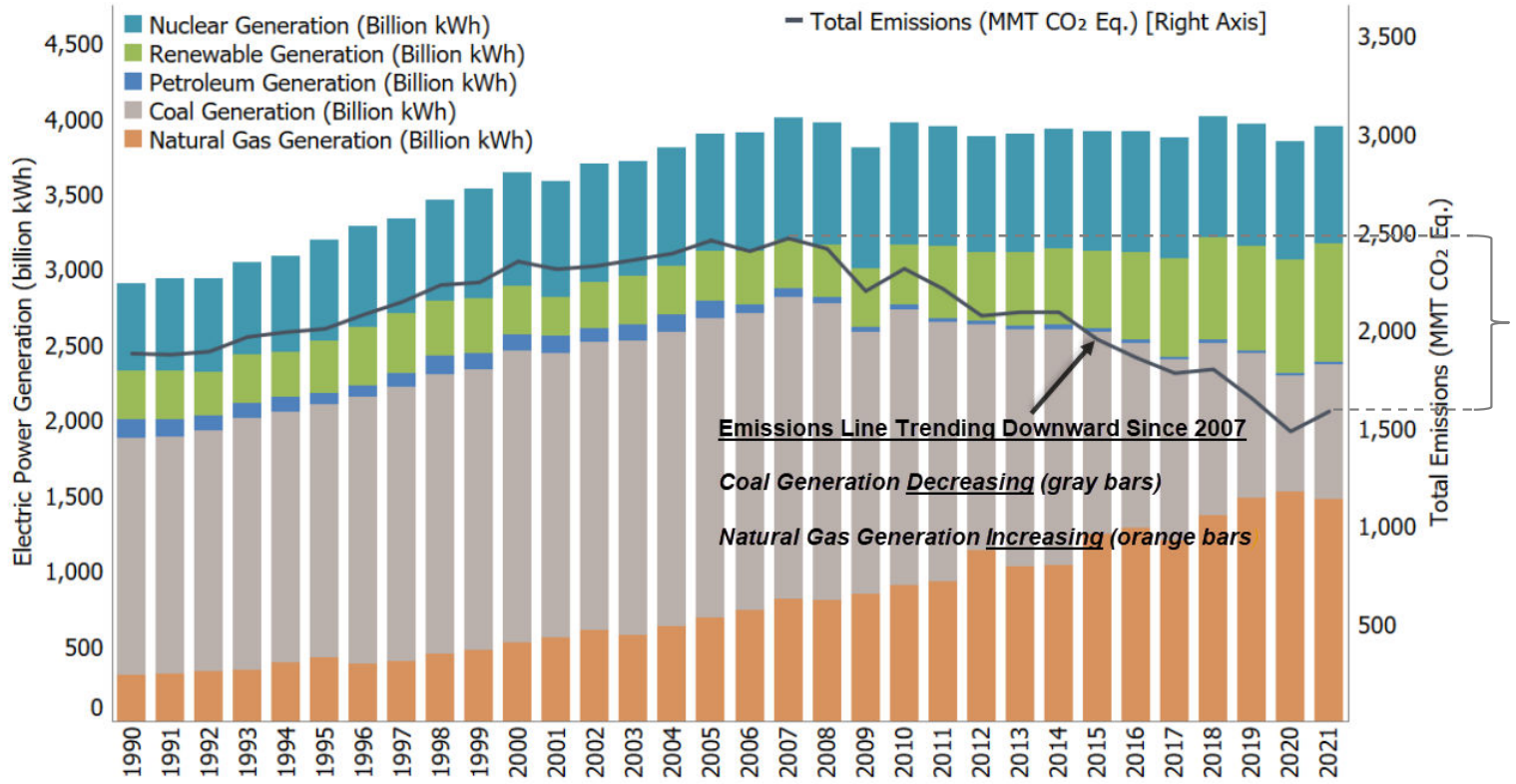
Natural Gas = 39.8% of U.S. Electricity

Natural Gas
23% of PNW



U.S. Fuel Switching from Coal to Natural Gas

Figure ES-7: Electric Power Generation and Emissions



760 MMT Emissions Reduction since 2007

- **Natural Gas**
  - 50-60% less CO2 than Coal
- **Plus, Wind & Solar**

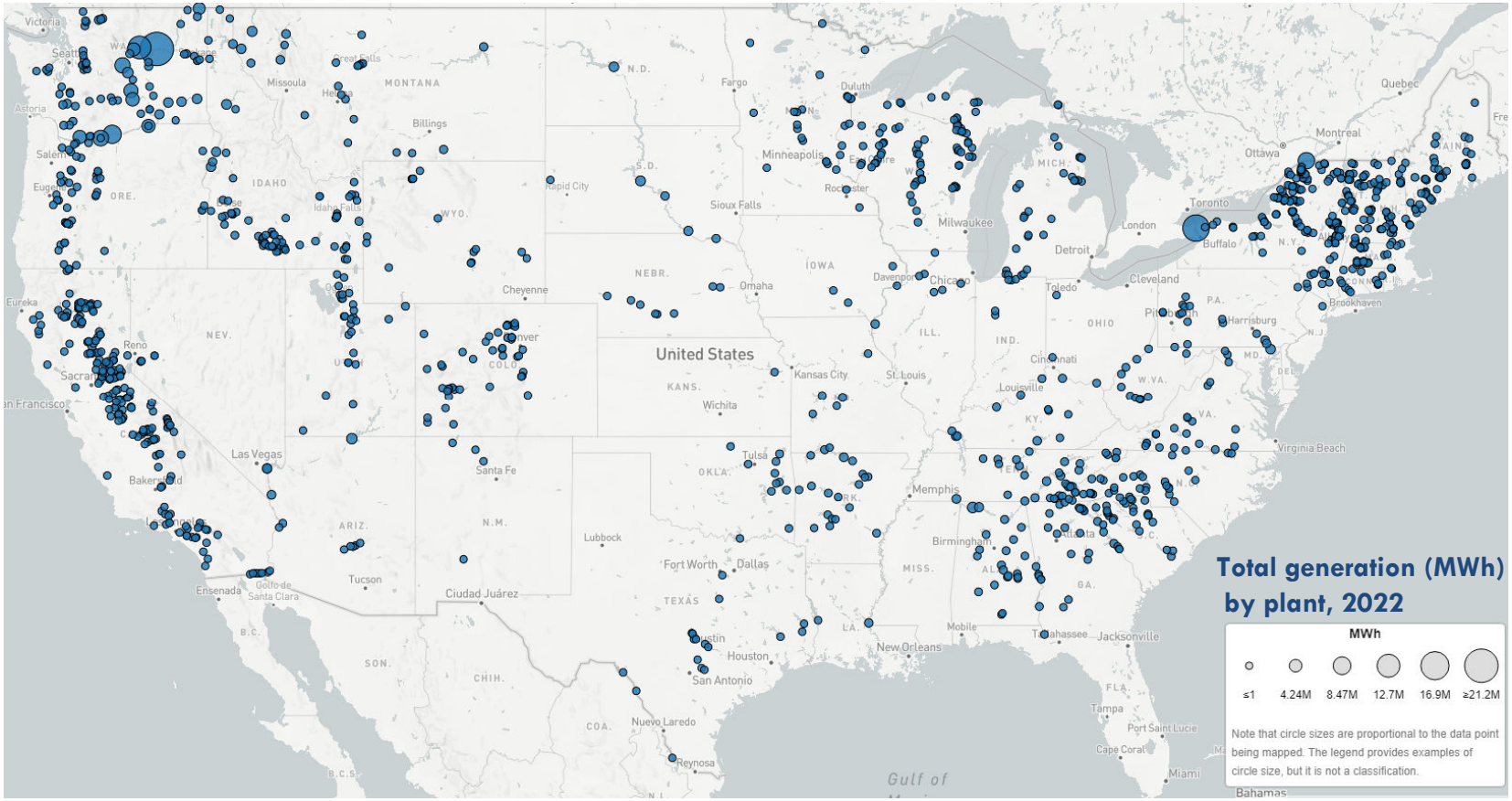
https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2021

Hydropower = 6% of U.S. Electricity

Northwest Hydropower Like Nowhere Else:

Electricity Provided

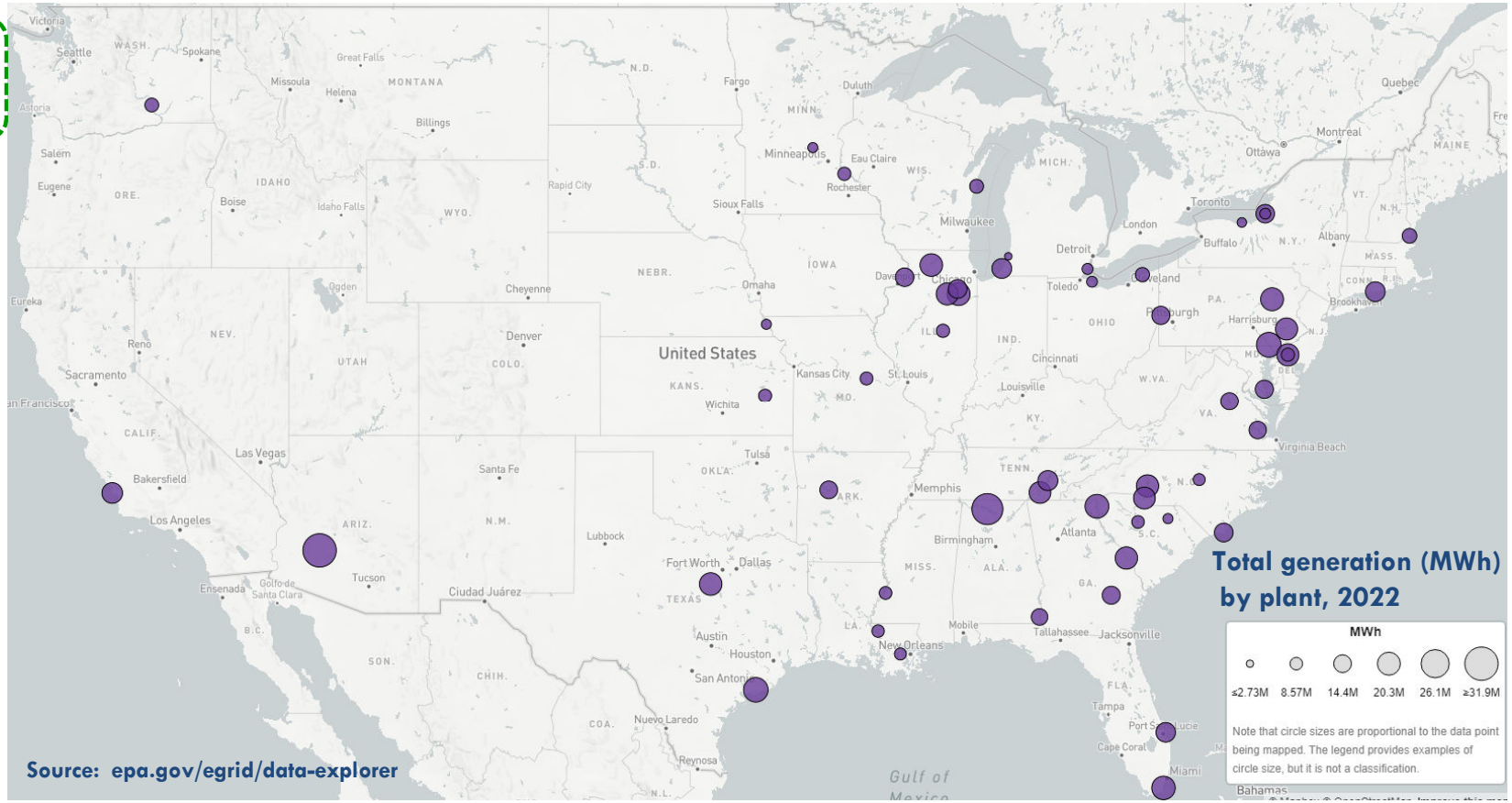
- ✓ **50% of PNW Region**
- ✓ **60% of Washington**



Source: epa.gov/egrid/data-explorer

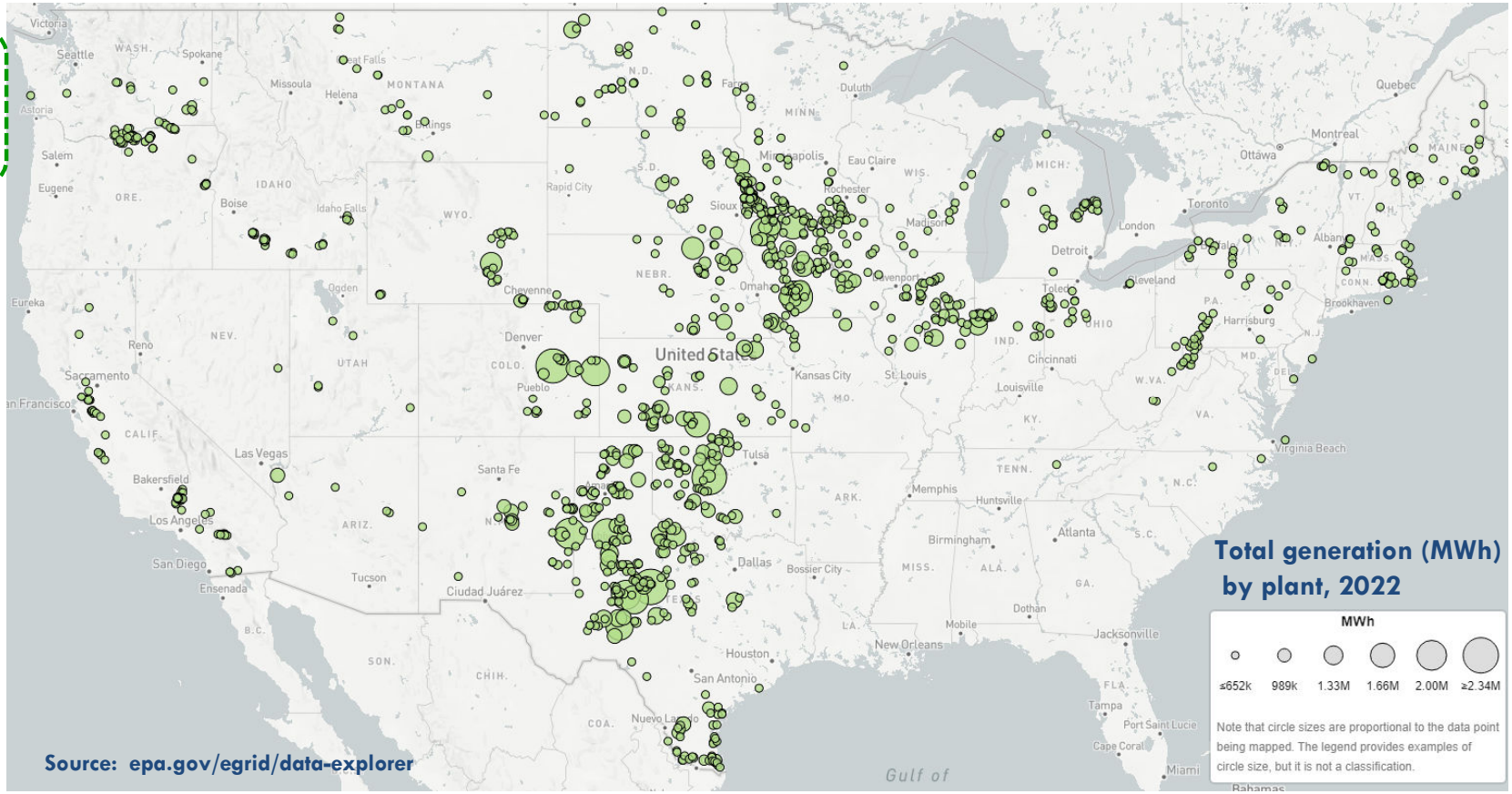
Nuclear = 18.2% of U.S. Electricity

Nuclear
3% of PNW



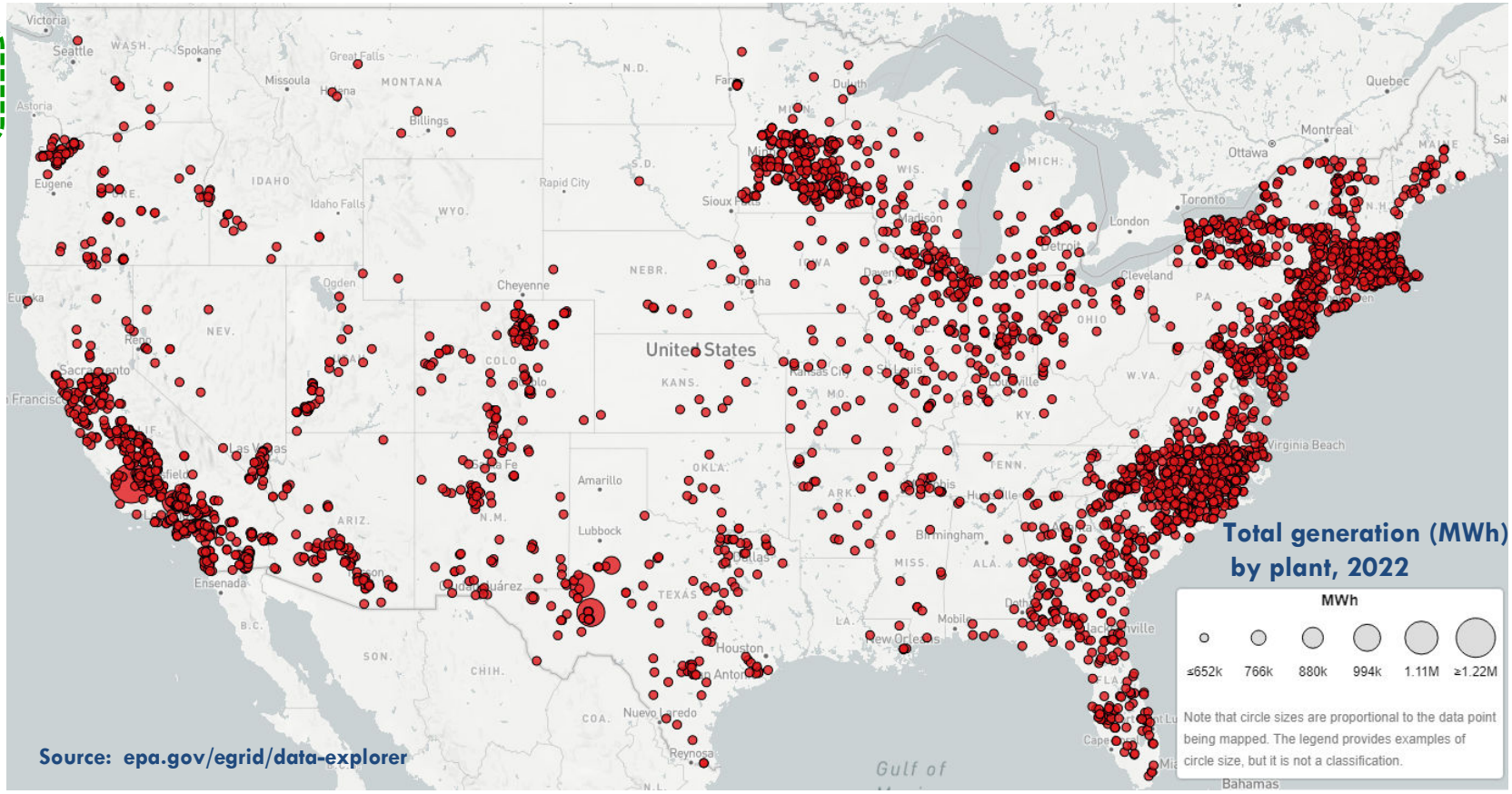
Wind = 18.2% of U.S. Electricity

Wind
10.5% of PNW



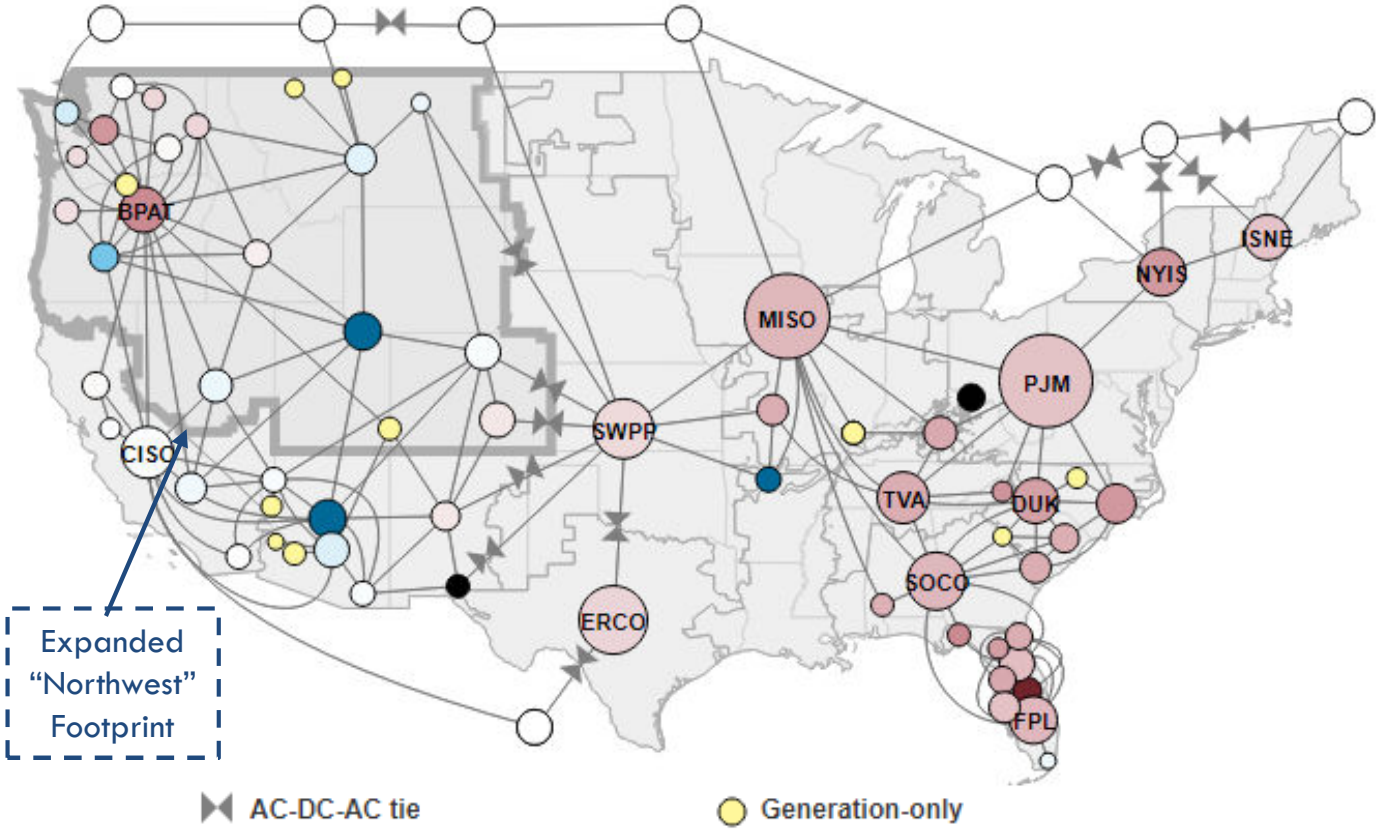
Solar = 3.4% of U.S. Electricity

Solar
0.9% of PNW

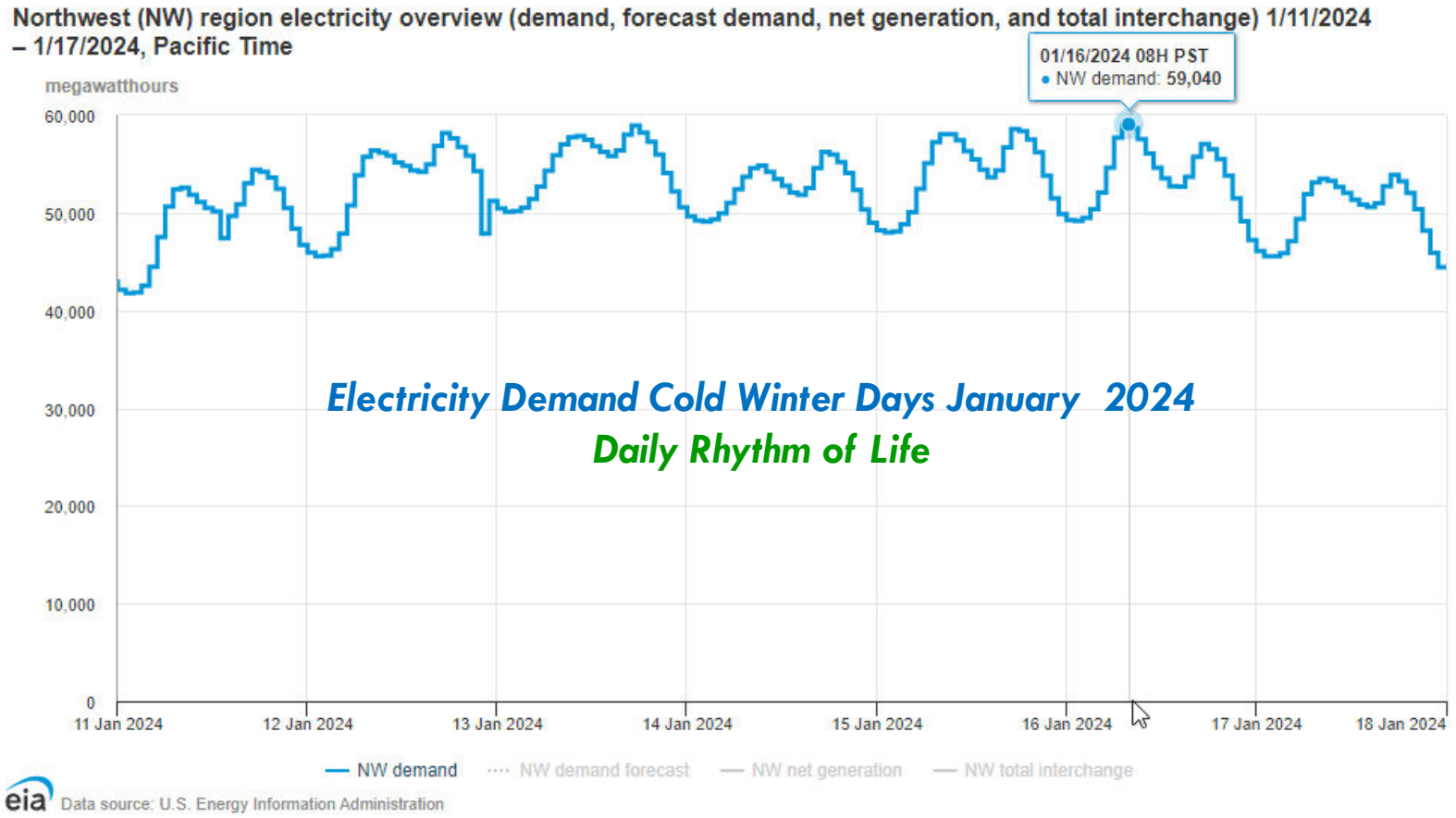


NW Demand & Supply Balancing: January 2024 Cold Snap

- ✓ **38 Balancing Area Authorities in Western Power Grid**
- ✓ **Maintain demand (Load) & supply (Resource) balance through scheduled generation imports and exports**

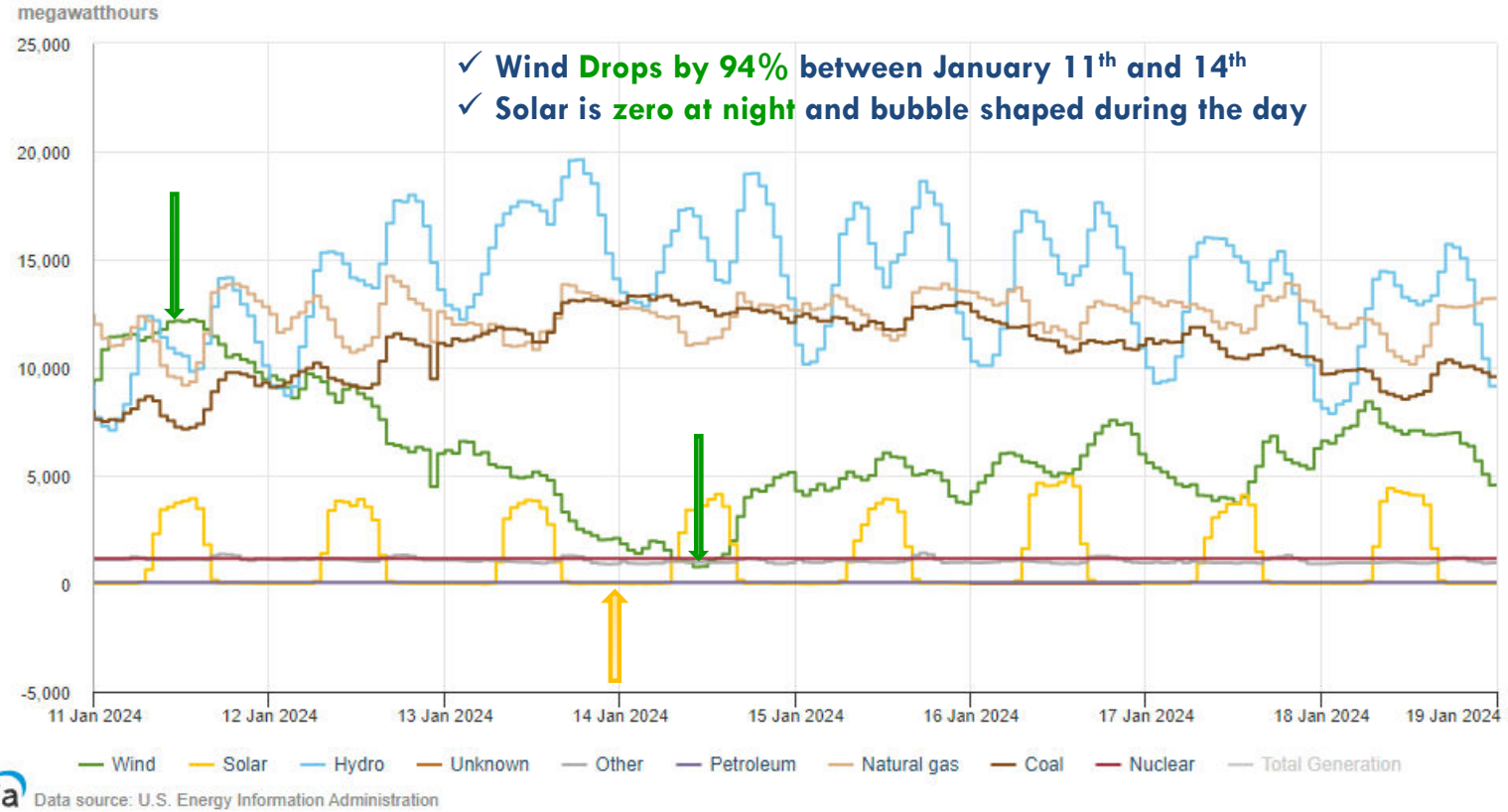


NW Electricity Demand: January 2024 Cold Snap



NW Electricity Supply: January 2024 Cold Snap

Northwest (NW) region electricity generation by energy source 1/11/2024 – 1/18/2024, Pacific Time



Future Concerns with Shutting Down Coal & No New Natural Gas

- More Dependence on Drought Susceptible Hydropower
- Overbuilding Wind and Solar; Financial & Environmental Costs
- Playing Probability Game

Agenda

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2. **Washington's Clean Energy Policies** – Global & U.S. Perspectives
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4. **Where Do We Go from Here? – Near and Long Term**

WA Clean Energy Transformation Act (CETA)

ENVIRONMENT AMERICA

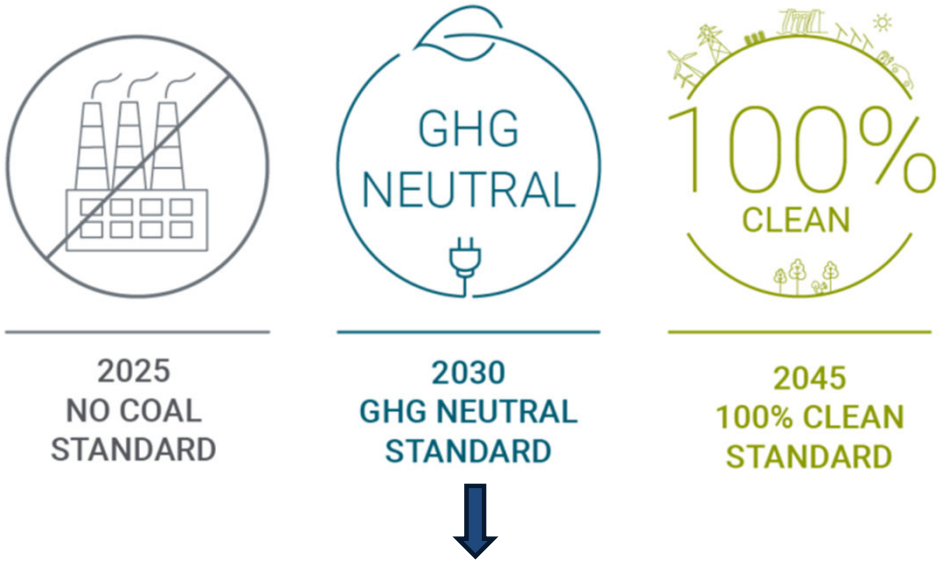
Washington state commits to 100% clean energy

Washington is the latest state to go all-in on clean, carbon-free electricity.

Washington is the latest state to go all-in on clean, carbon-free electricity.

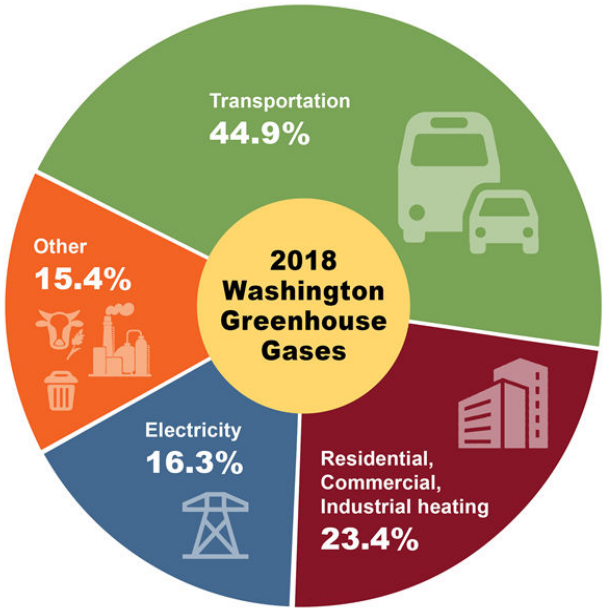
On May 7, Gov. Jay Inslee signed the 100% clean electricity bill into law,

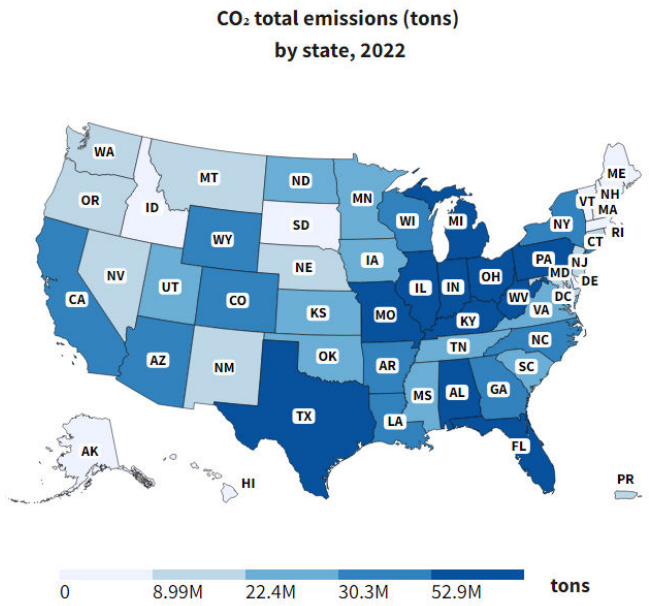
CETA Requirements

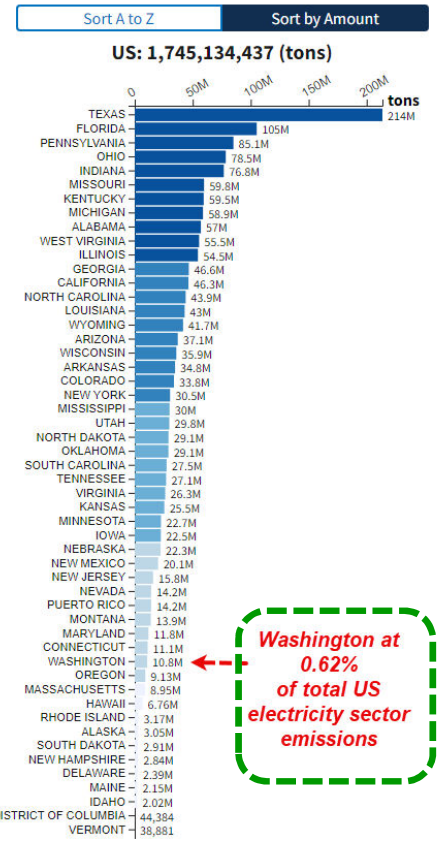


20% of utility load can be served with CO_2 emitting generation with offsets

Washington CO_2 Emissions





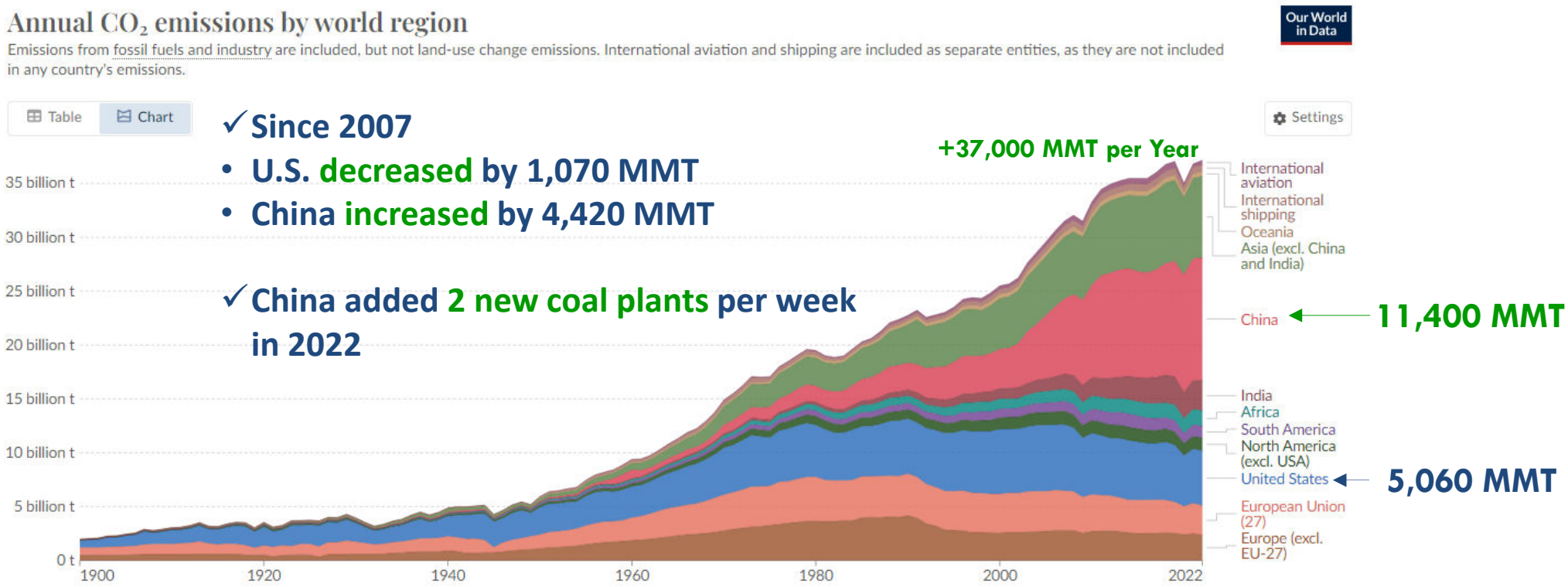


Washington at 0.62% of total US electricity sector emissions

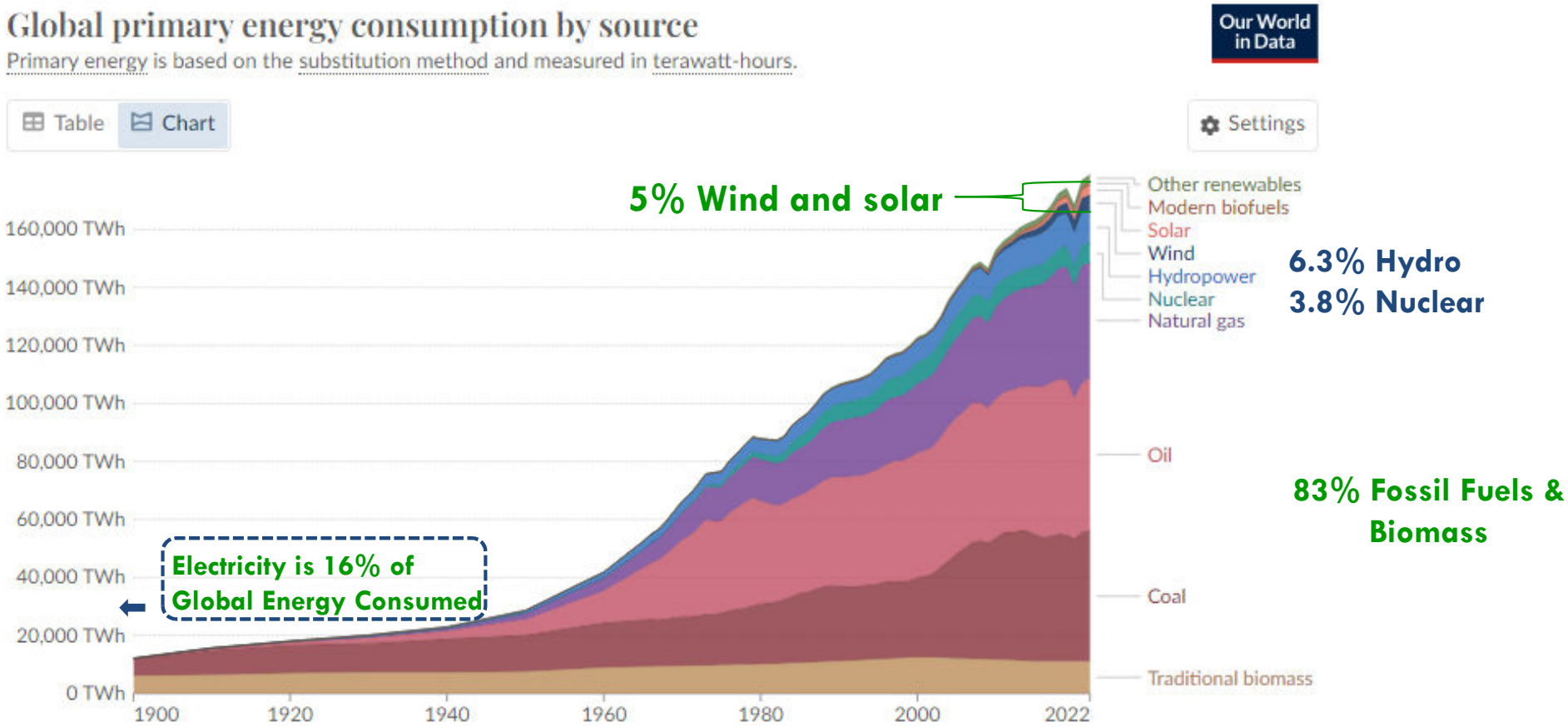
- ✓ Total Energy Sector Emissions = 76 MMT
- ✓ Electricity Sector Emissions < 11 MMT

Source: https://www.epa.gov/egrid/data-explorer

As We Push Grid to Blackout Annual Global CO_2 Emissions Rise

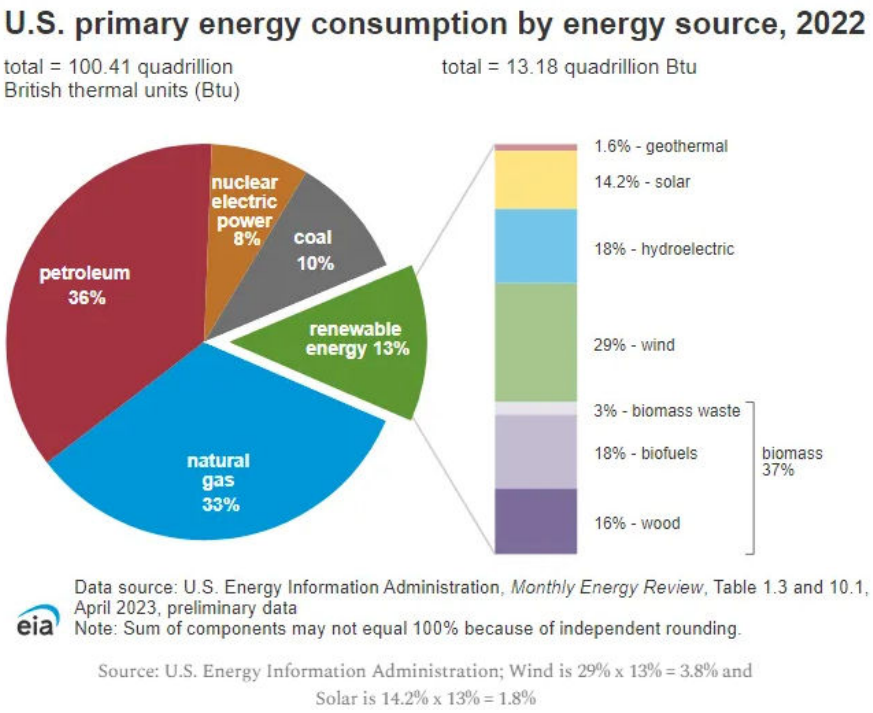


Global "Energy Transition" ?



Source: https://ourworldindata.org/energy-production-consumption

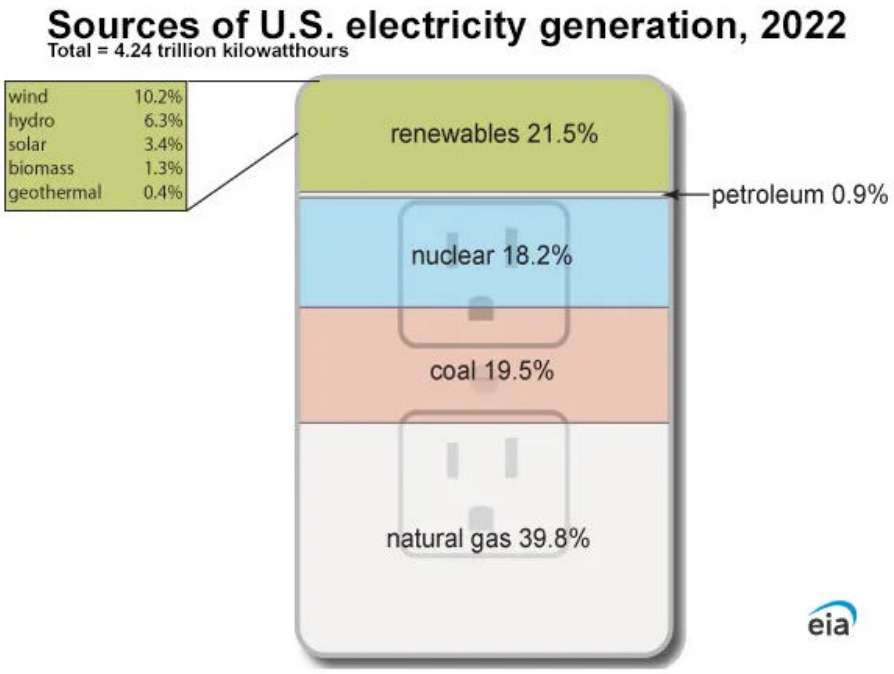
U.S. Total Energy Consumption



Source: U.S. Energy Information Administration; Wind is 29% x 13% = 3.8% and Solar is 14.2% x 13% = 1.8%

- Fossil fuels = 79%
- Wind & Solar = 5.6%
  - Hydro = 2.3%
  - Total Renewables = 13%
- Nuclear = 8%
- *Electricity Represents <u>37%</u> of total U.S. Energy*

U.S. Electricity Generation



Source: U.S. Energy Information Administration

- Fossil Fuels = 60%
- Renewables = 21%
  - Wind & Solar = 13.6%
  - Hydro = 6%
- Nuclear = 18%

- *+38% Non-CO_2 Emitting*

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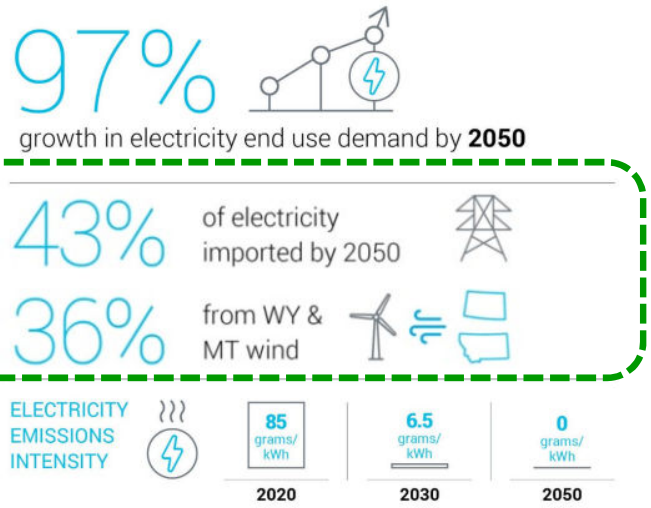
Washington Energy Strategy

Decarbonizing the Electricity Sector

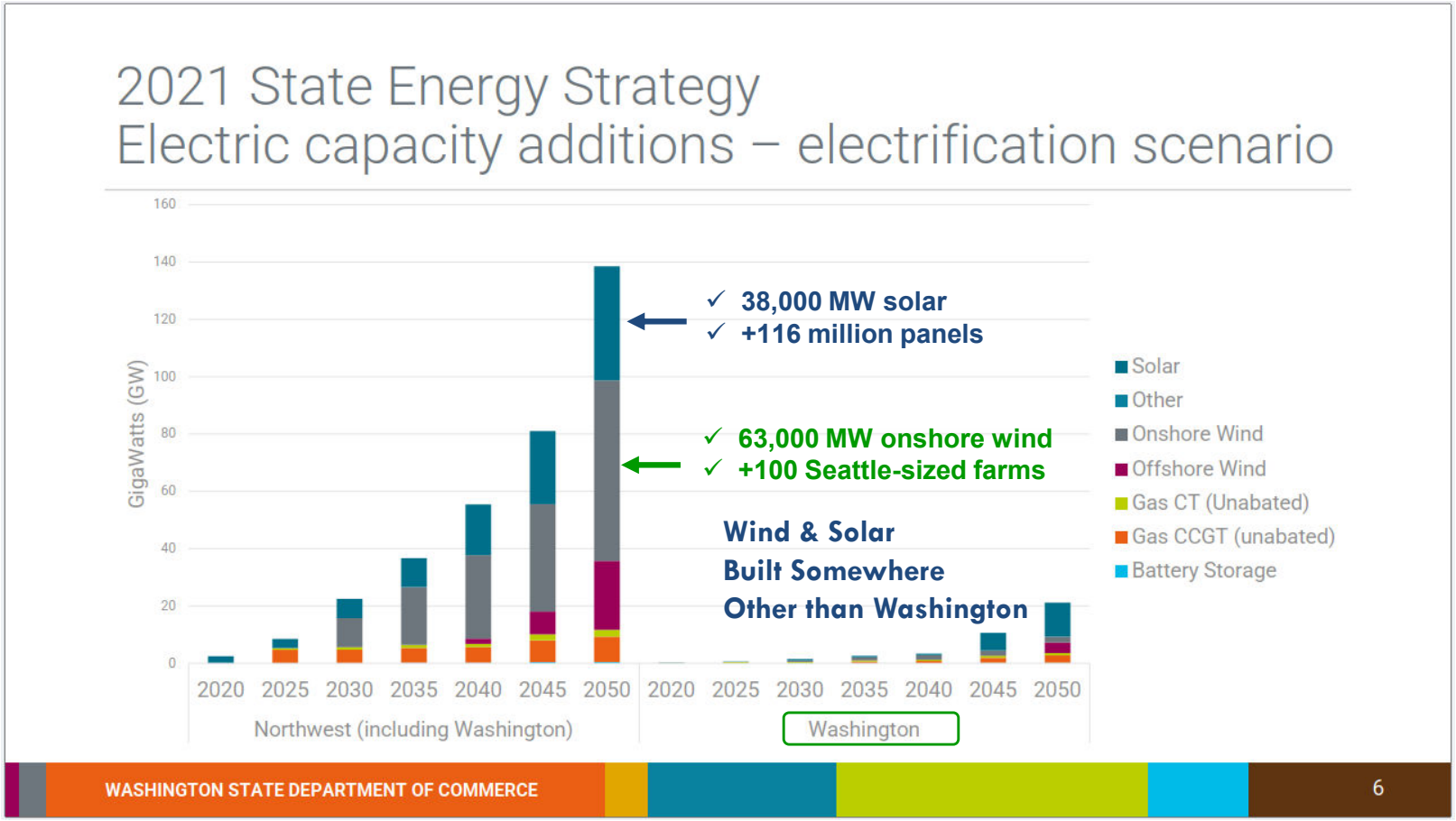


- Double end use electricity load by 2050
  - ✓ Electricity to displace fuels in transportation, industry, buildings
  - ✓ Hydrogen electrolysis and electric boilers as flexible demand resources
- Invest in new transmission capacity and renewable generation, coordinating with other states
- Develop distributed energy resources with smart grid capabilities to ensure reliability and flexibility
- Strengthen market mechanisms to ensure resource adequacy and efficient electricity markets.
  - ✓ Coordination with other states and federal government

Over 10,000 aMW

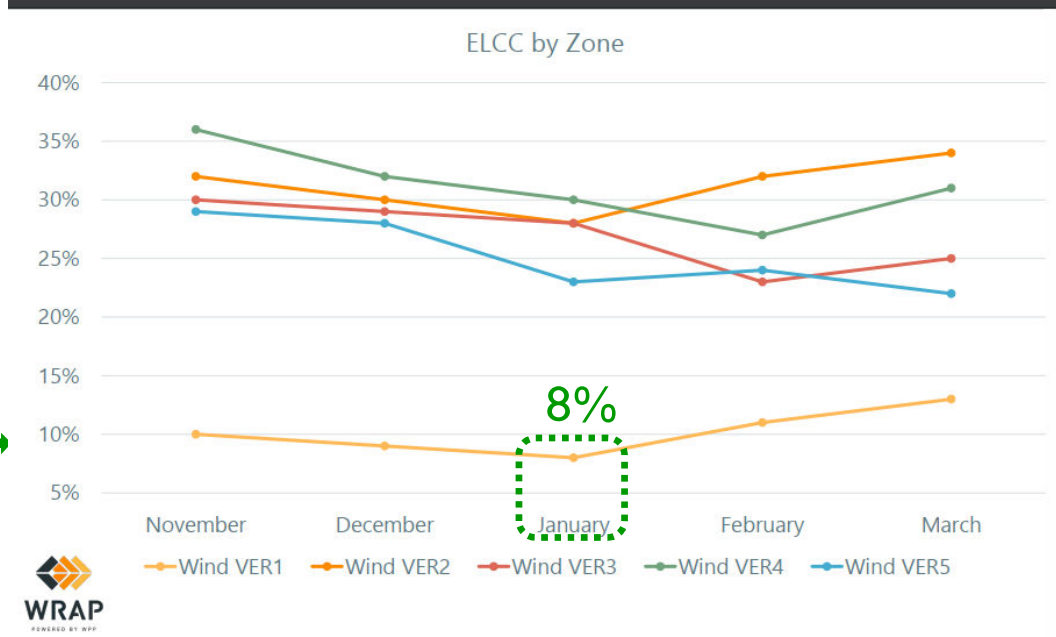
10 x CGS Nuclear Plant

Washington Energy Strategy



Wind Power in the West: Effective Capacity

WIND ELCC - WINTER



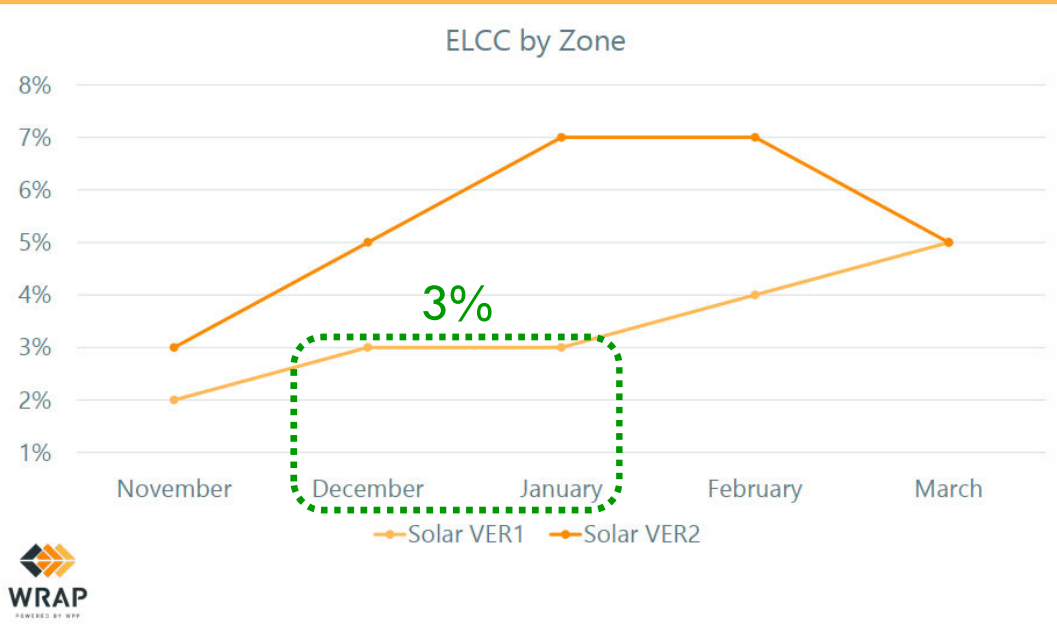
Washington Wind is Lowest Winter Effective Capacity of any Region

ELCC = Effective Load Carrying Capability

Solar Power in the West: Effective Capacity

SOLAR ELCC - WINTER

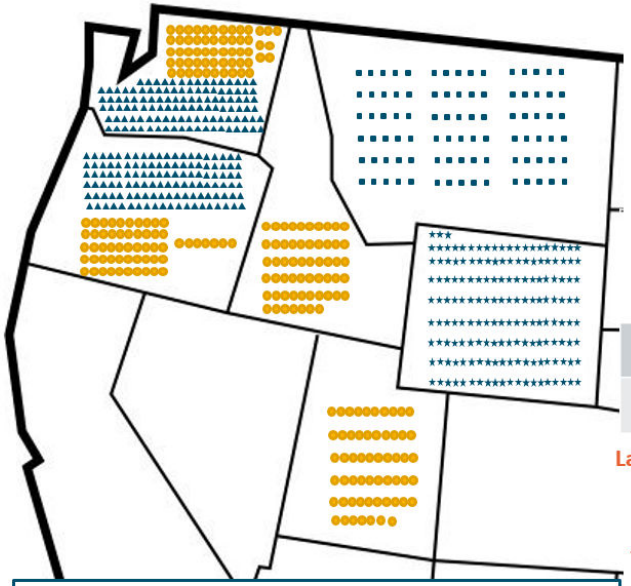
Northwest Solar Extremely Low Effective Capacity in Winter



ELCC = Effective Load Carrying Capability

Wind & Solar: Land Use Impacts

Renewable Land Use
100% Reduction



Technology	Nameplate GW
Solar	46
NW Wind	47
MT Wind	18
WY Wind	33

	Solar Total Land Use (thousand acres)	Wind - Direct Land Use (thousand acres)	Wind - Total Land Use (thousand acres)
80% Clean	84	94	1,135 – 5,337
100% Red	361	241	2,913 – 13,701

Land use in 100% Reduction case ranges from

20 to 100x

the area of Portland and Seattle combined

Each point on the map indicates 200 MW.
Sites not to scale or indicative of site location.

Energy+Environmental Economics

Portland land area is 85k acres
Seattle land area is 56k acres
Oregon land area is 61,704k acres

56

Source: Public Generating Pool study by E3 Consulting submitted to WA State Legislature prior to passage of CETA

Transmission Lines Needed to Bring Wind and Solar Power to Population Centers

Assumes 100% of Existing Hydropower stays in Place

Transmission Lines: Development & Operations Friction

- ✓ **High up front capital costs & long siting, permitting & construction lead times**
  - 15 years or more not uncommon
- ✓ **Wildfire legal and financial risks**
  - Risk mitigation includes preemptive shutoffs and blackouts

BRIEF

PG&E exits bankruptcy, but long-term wildfire risk could put it 'back in the soup'

PacifiCorp: Wildfire Insurance Costs Pose 'Material Threat' to Financial Stability

CLEARING UP • September 8, 2023

Capital Costs for Low & No-CO_2 Emissions Generation

Combined-cycle natural gas plants:

- **$1.4 billion per 1,000 MW**
- **+90% nameplate annual avg.**

Currently no plans for new gas plants in WA or OR

Wind:

- **$2.3 billion per 1,000 MW**
- **30% to 40% nameplate annual avg.**

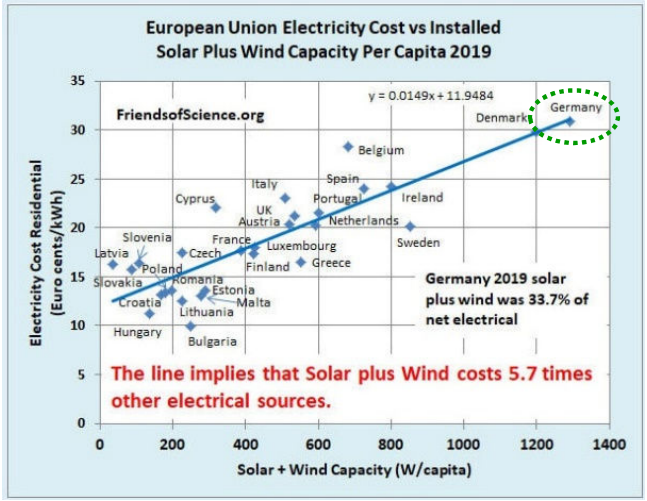
Solar:

- **$1.4 billion per 1,000 MW**
- **+30% nameplate annual avg. East WA**

Costs: U.S. EIA Northwest Power Pool 2022 $

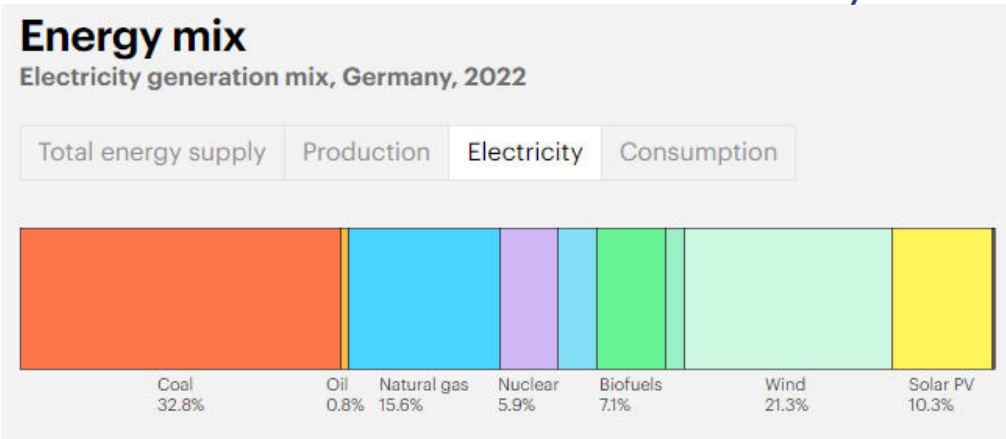
Must overbuild due to low effective capacity

Wind & Solar Grids: Cautionary Tale from Germany



- Residential/Industrial Avg. ¢ per kWh
  - Germany: 40/26.4

+31% wind& solar annual electricity

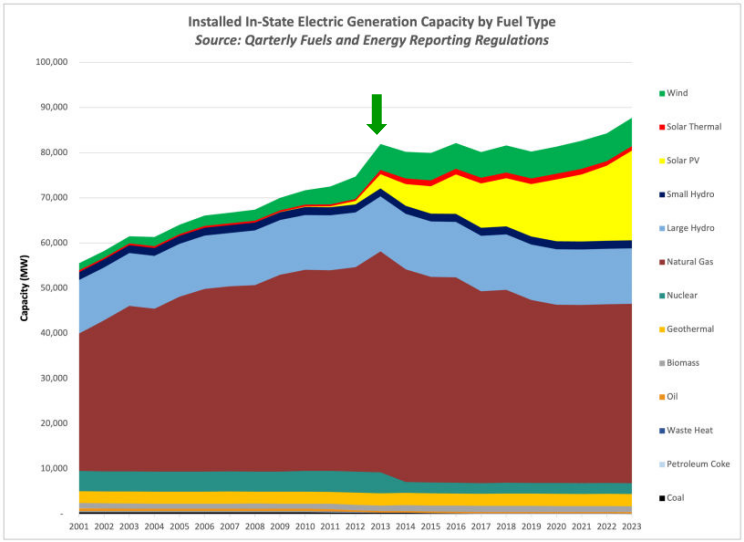


Source: https://www.iea.org/countries/germany

Germany leads on:

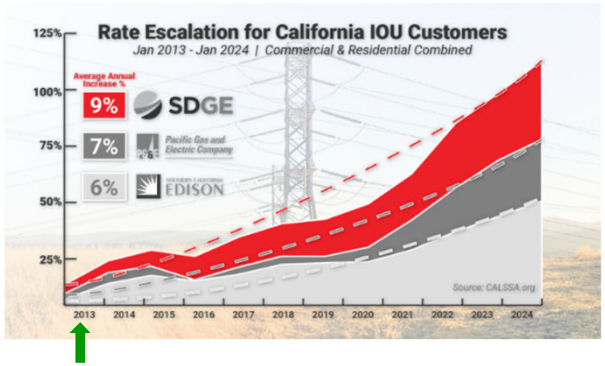
- ✓ concentration of wind & solar per capita
- ✓ Highest priced electricity

Wind & Solar Grids: Cautionary Tale from California



- Residential/Industrial Avg. ¢ per kWh
  - Germany: 40/26.4
  - California: 28.9/18.8
  - United States: 15.9/8.0
  - Washington: 10.9/6.3

Sources: Statista & U.S. Energy Information Administration 2023



Increased $ invested in solar tracks with big rate increases

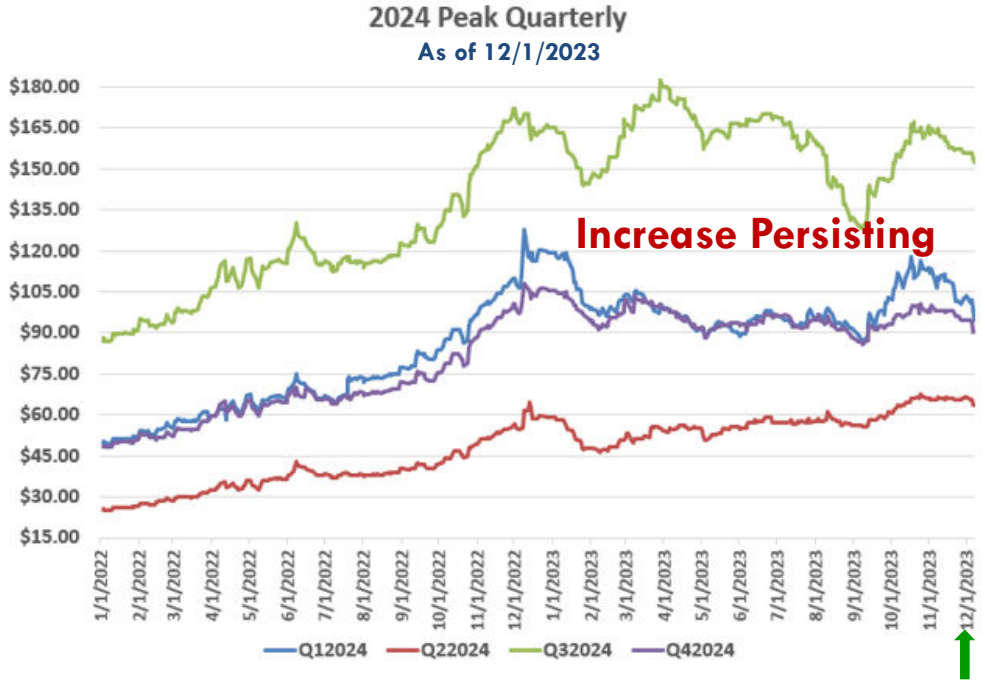
- ✓ 25% wind & solar in-state 2022
- ✓ 30% including imported electricity

Double Whammy!

- ✓ High Cost
- ✓ Increased Risk of Blackouts

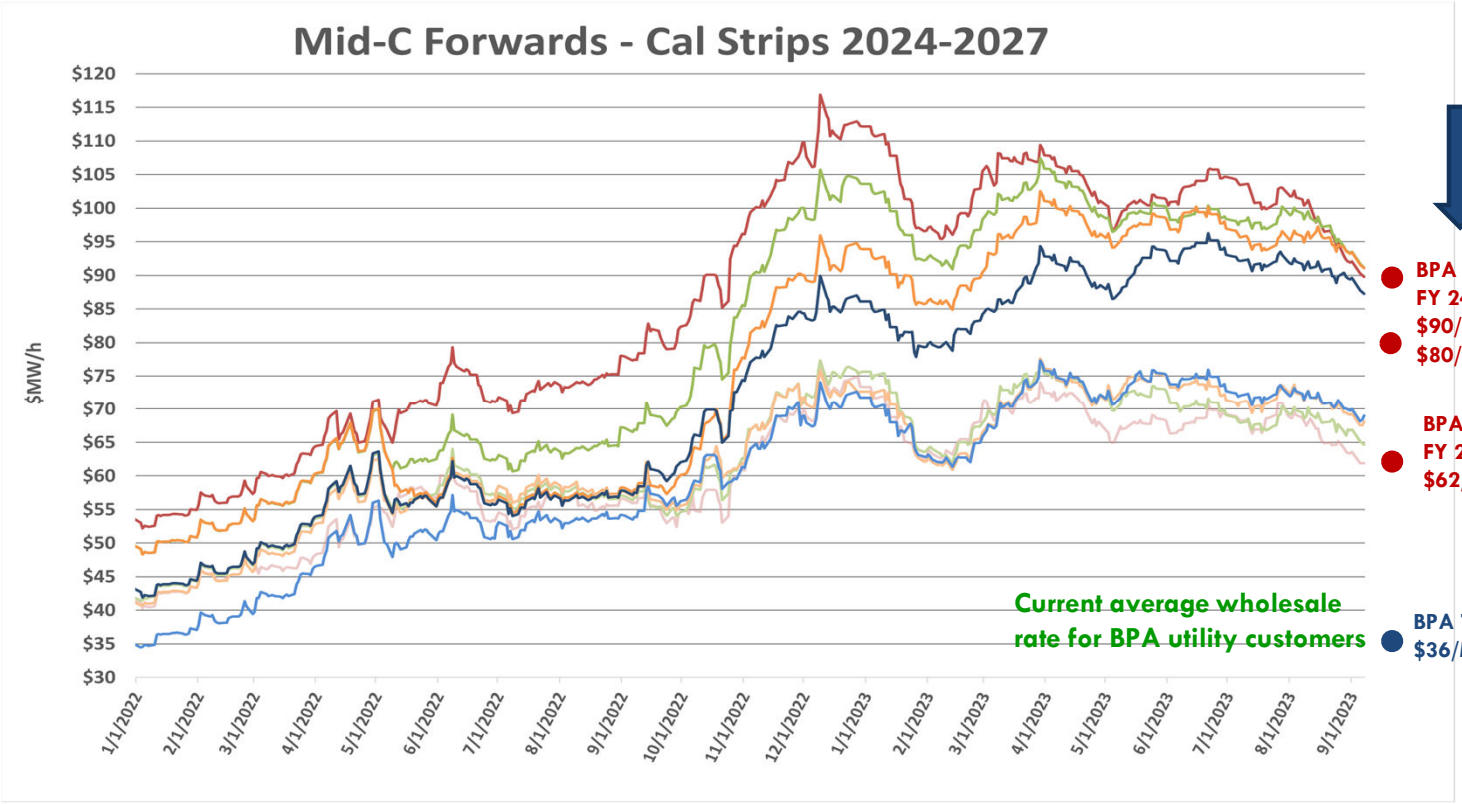
NW Power Market Prices: Scarcity of Dependable Seasonal Capacity

Mid-Columbia Electricity Market Pricing Hub – Forward Price Curves



Graphs represent forward price curve changes over time beginning 1/1/2021 thru 12/1/2023 Summer (Q3) and Winter (Q1/Q4) Peak Demand Period (6 am to 10 pm weekdays)

NW Power Market Prices: Scarcity of Dependable Annual Energy



Cal 2024 **Cal 2025** **Cal 2026** **Cal 2027**

Economic Development Serving New Loads

- BPA New Large Single Load Limit = 10 aMW
- BPA incremental load growth served at Tier-2 (72% higher rate)
- Some WA utility retail industrial retail rates as low as $50/MWh
- WA average retail industrial rate is $62/MWh

Supply Chain: Costs & Lead Times Way Up

2020: $578k
2024: $1.3M to $2.2M

6 to 9 month lead time
1.5 to 3.5 year lead time

25-megawatt Substation Transformer

2020: $1,355
2024: Up to $8,732

12 to 16 weeks lead time
Up to 2-year lead time

25-kilowatt Residential Transformer

Source: Benton PUD contracts & purchasing department

Utility Balancing Act: Becoming Increasingly Difficult

- Hydropower Erosion
  - Increased spill & threats of dam breaching
- Eliminating CO_2 valued above all factors
  - Coal-plant retirements & no new natural gas in WA & OR
- Wind & Solar: Weather Dependent & Energy Dilute
  - Located remotely from population centers & require vast swaths of land
- Increasing **Costs** & Risk of **Blackouts**

Agenda

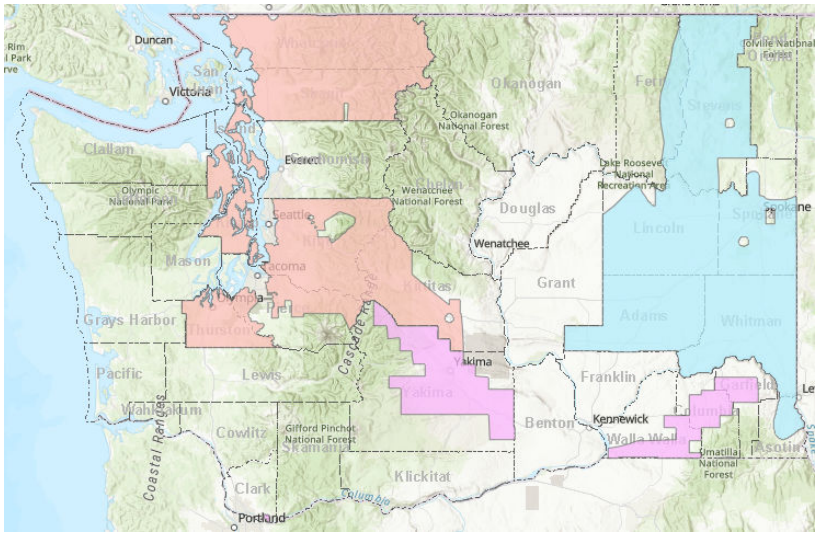
1. **Northwest Close to Blackouts** – How did we get here?
2. **Washington's Clean Energy Policies** – Global & U.S. Perspectives
3. **Washington's Energy Strategy** – Challenges & Concerns
4. **Where Do We Go from Here? –** Near and Long Term

Investor-Owned Utilities: WUTC Regulated

Avista Energy

PACIFIC POWER
A DIVISION OF PACIFICORP
PacifiCorp

PUGET SOUND ENERGY
Puget Sound Energy

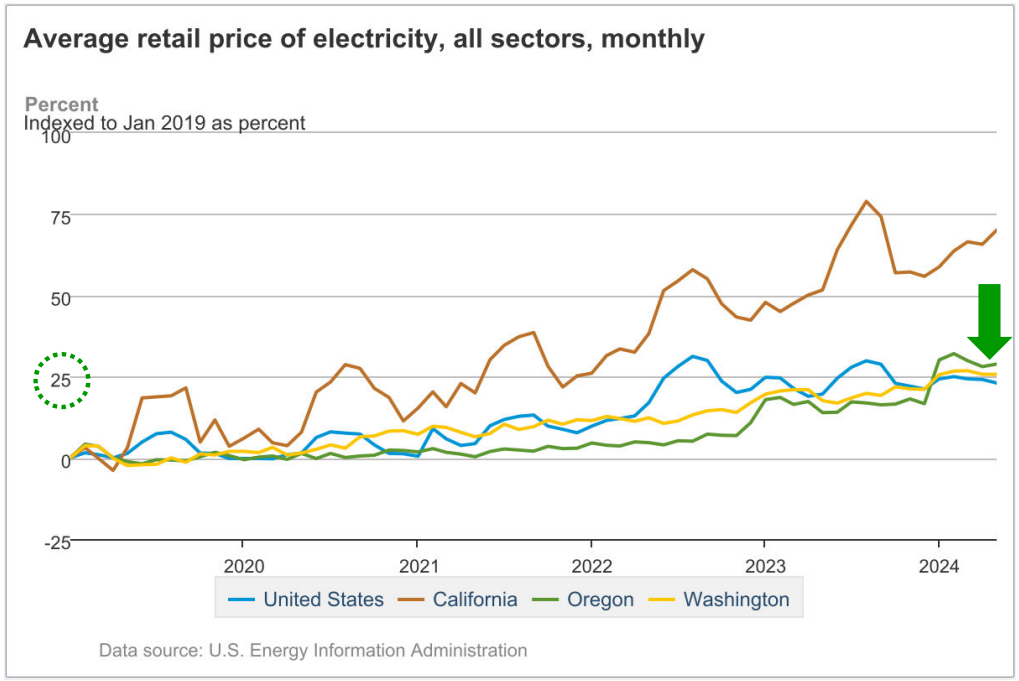


Majority of WA state electricity sector CO_2 emissions are from IOUs

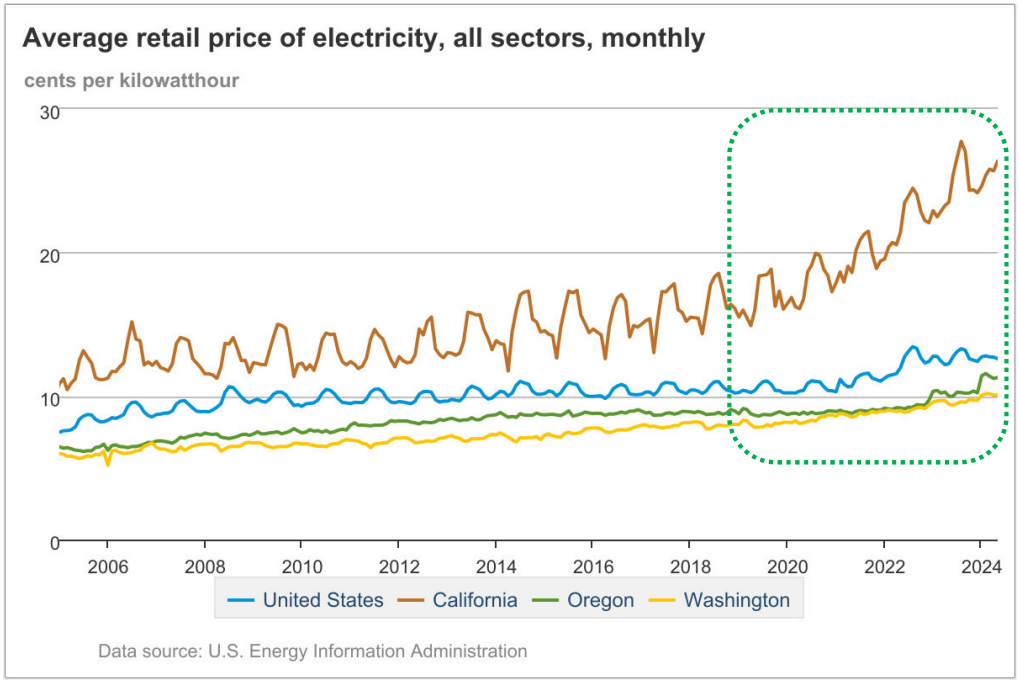
- Generation portfolio approved by **governor appointed** commissioners
  - Wind, Solar & Batteries
  - New Hydro not Possible
  - Nuclear allowed . . . but?
- Guaranteed **rate-of-return** on investments in generation assets
  - Incentivizes **overbuilding** wind & solar
  - **Customer rates significantly increasing**

Washington Electricity Rates Increasing

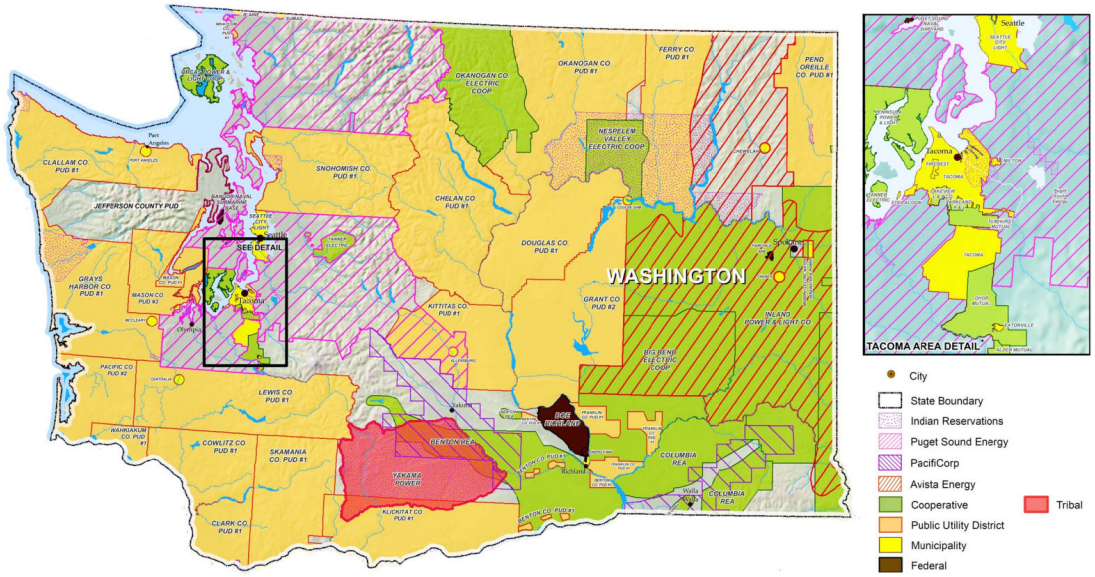
WA +25% Increase Since January 2019



WA > 10¢ per kWh January 2024



Consumer-Owned Utilities: 'Local' Control

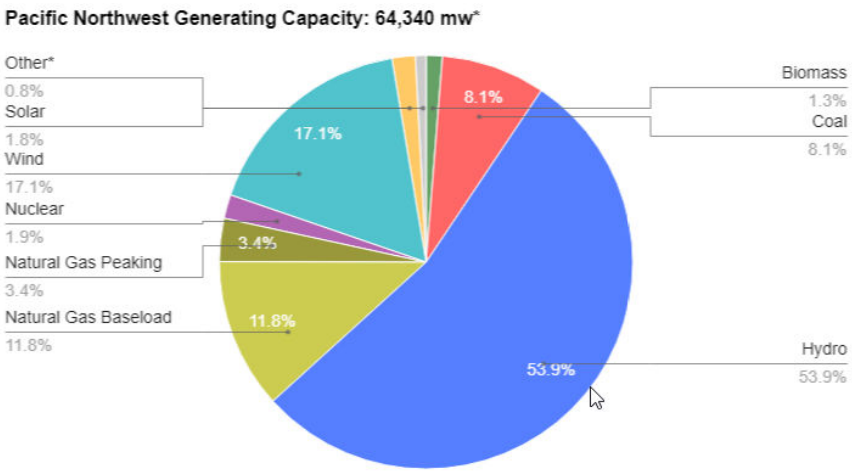


Many consumer-owned utilities have +90% non-CO_2 emitting portfolios today

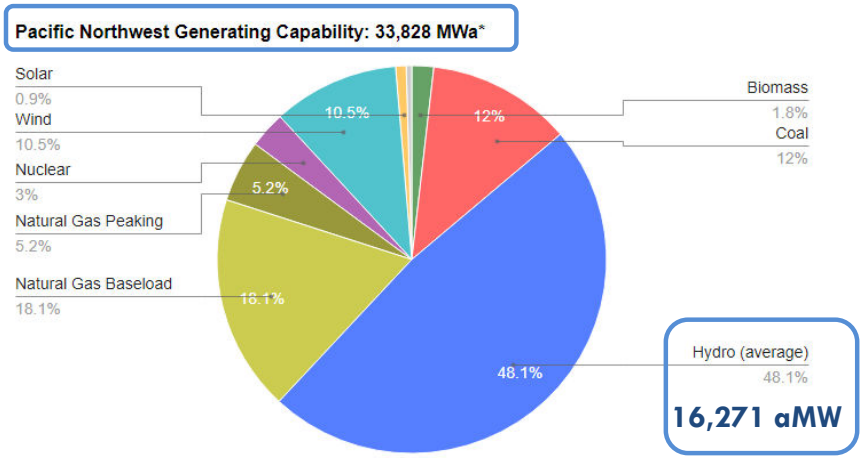
- Generation portfolio approved by locally elected commissioners but **limited by state law**
  - Wind, Solar & Batteries
  - New Hydro not Possible
  - Nuclear allowed . . . but?
- Long time beneficiaries of **low-cost federal hydro** marketed by the Bonneville Power Administration
  - Firm BPA hydro is **100% spoken for**
  - Load growth at much higher BPA rates
  - **Customer rates beginning to increase**

Hydropower: Foundation of PNW & WA Electricity Supply

PNW Nameplate Capacity



PNW Annual Electricity Production



Capability is the maximum amount of energy the plants are capable of producing over the course of an average year. Download chart as PNG

* Other (yellow segment) includes geothermal, petroleum, and solar

✓ **BPA represents ≈ 50% of hydro generation in average year**

✓ **Washington State Annual Electricity Consumed +10,000 aMW**

Source: https://www.nwcouncil.org/energy/energy-topics/power-supply

BPA Hydropower: Foundation of Consumer-Owned Utility Supply

Bonneville POWER ADMINISTRATION

Federal power marketer for 31 hydroelectric dams and the Columbia Generating Station nuclear plant

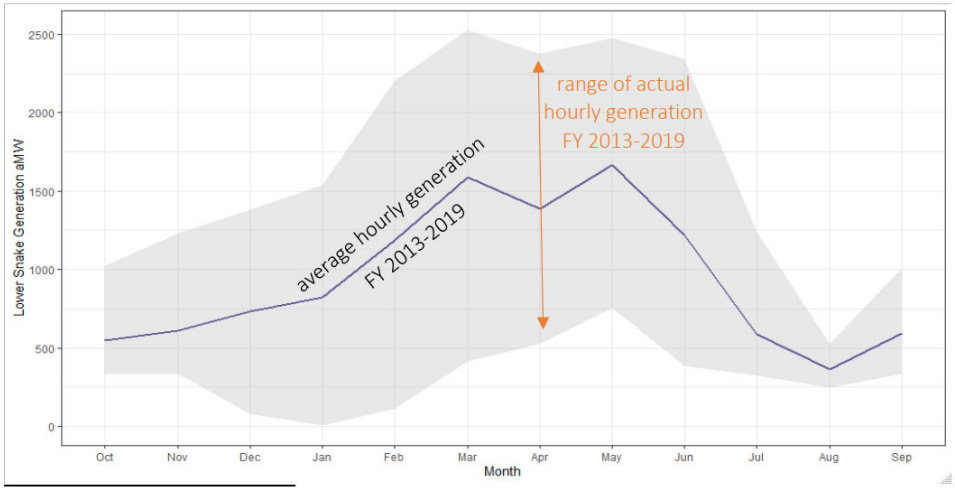
Customers

Cooperatives	54
Municipalities	42
Public utility districts	28
Federal agencies	7
Investor-owned utilities	6
Direct-service industries	1
Port districts	1
Tribal utilities	3
Total	142

- ≈ 7,000 aMW of Generation
  - Public Bodies & Cooperatives (Preference Customers)
  - Tier-1 rates ($36 per MWh)
  - Tier-2 rates for load above firm allocation ($62 per MWh)
- Investor-Owned Utilities do not receive physical firm electricity
  - Receive financial payments on behalf of residential & farm customers (residential exchange program)

Lower Snake River Dams

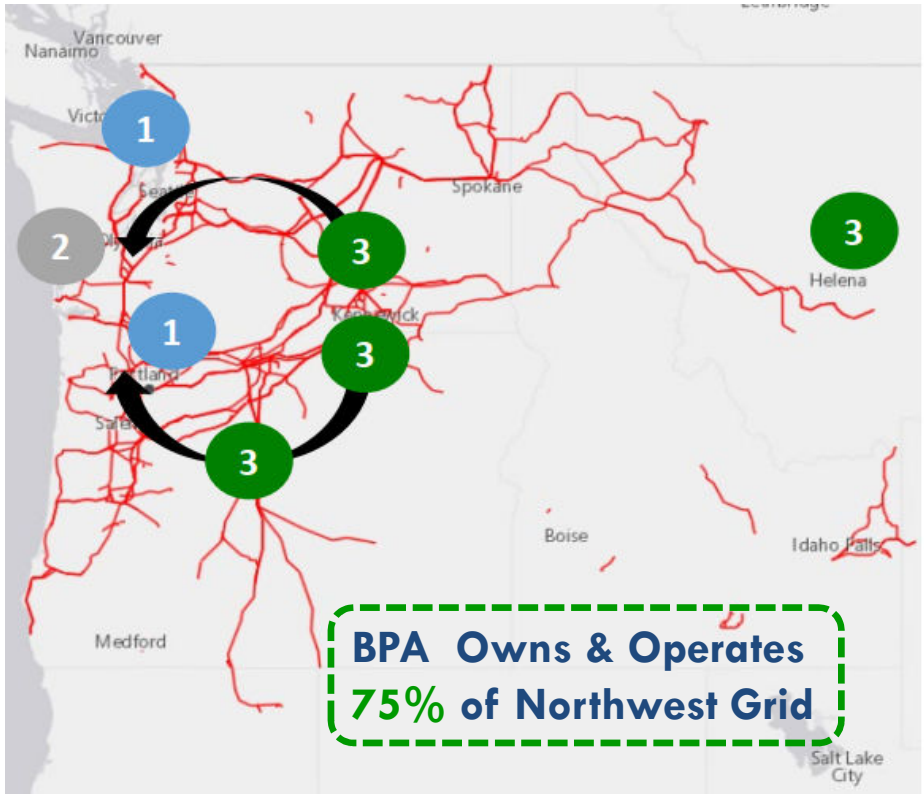
Ice Harbor Dam	603 MW
Lower Monumental Dam	810 MW
Little Goose Dam	810 MW
Lower Granite Dam	810 MW
Total	**3,033 MW**



Source: USACE Water Control Data

- LSRD's
  - Not Expensive ($15 per MWh)
  - Not Outdated (world class fish bypass)
  - Not Surplus (+130 BPA Customer portfolios)
- As much as 25% of BPA Operating Reserves
  - Blackout Insurance
- We need every drop of hydropower we can get
  - 100% Carbon Free CETA Mandates

BPA Transmission Lines are Critical to All Utilities



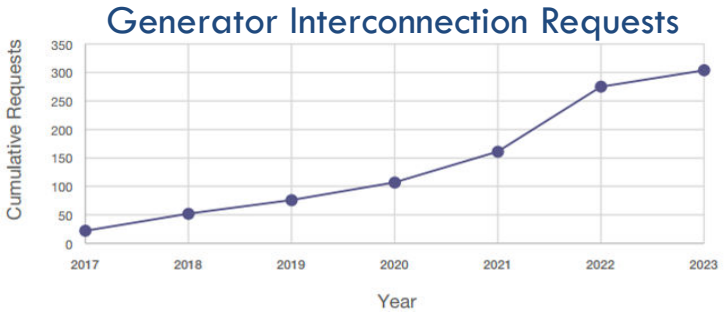
The following factors:

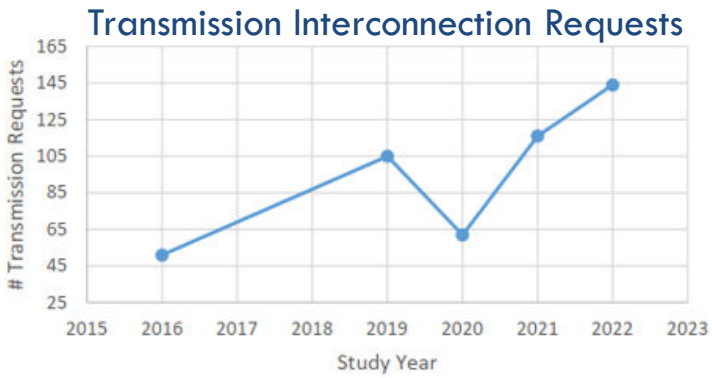
1. Load growth in Portland and Seattle – driven by high tech industry, transportation and building electrification
2. Reduced operation of 4.5 GW of carbon emitting generators on the west side along the I5 corridor
3. Replacement wind and solar resources are located east of the Cascades

Will increase flows on cross-Cascades transmission paths and throughout the load centers

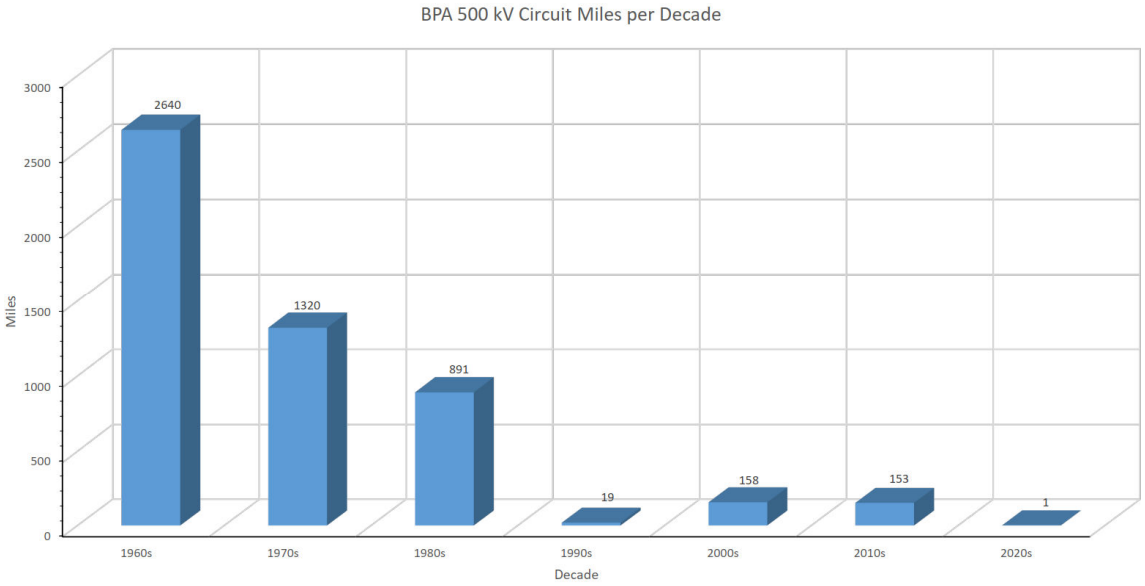
Source: BPA April 2023 Presentation "The Evolving Grid Update on the State of Transmission"

BPA Transmission Interconnection Frenzy!





✓ **BPA hasn't built significant new transmission lines in years**



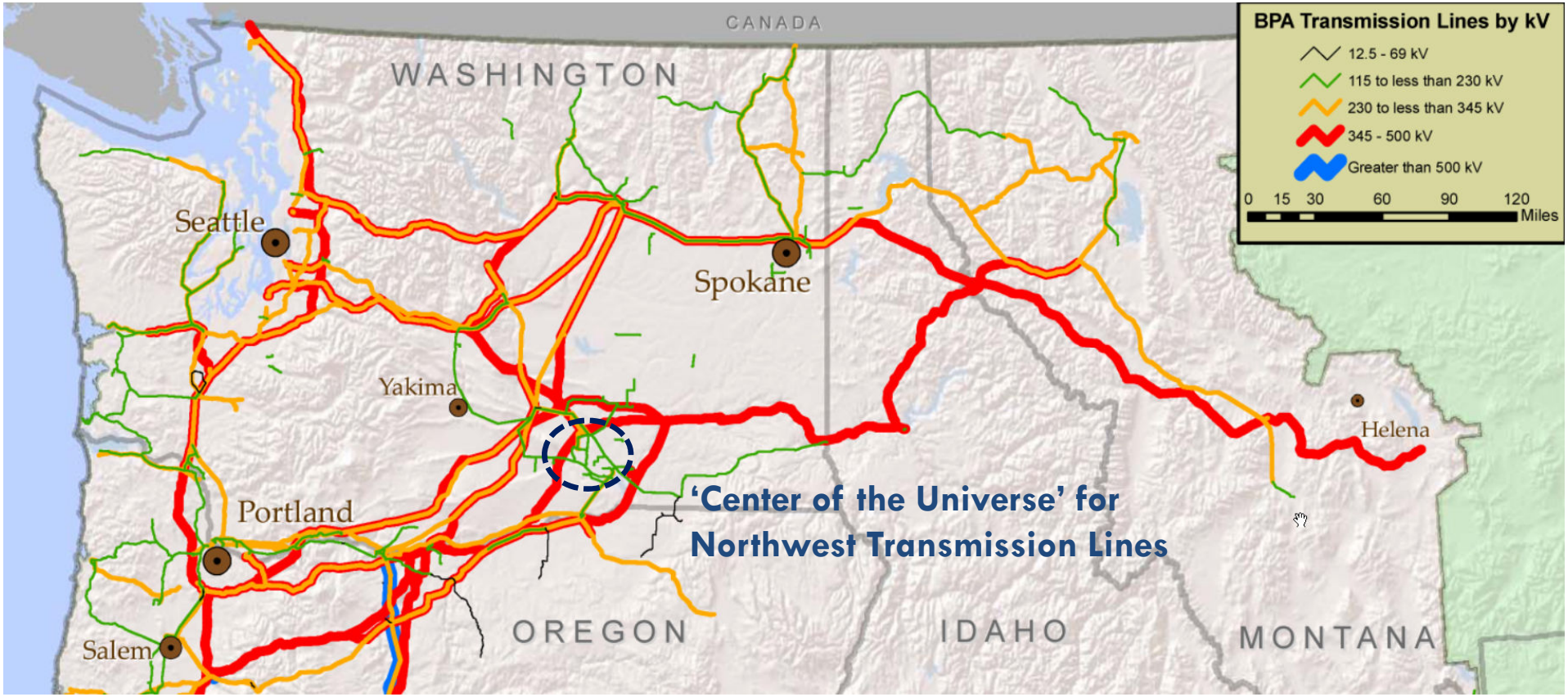
CLEARING UP
An Independent News Service from NewsData

TOP STORY

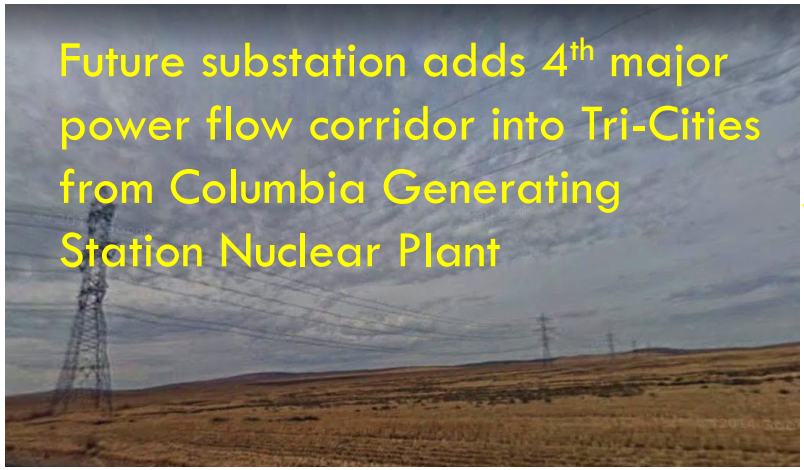
BPA Transmission Expansion Study Hits a 'Brick Wall'

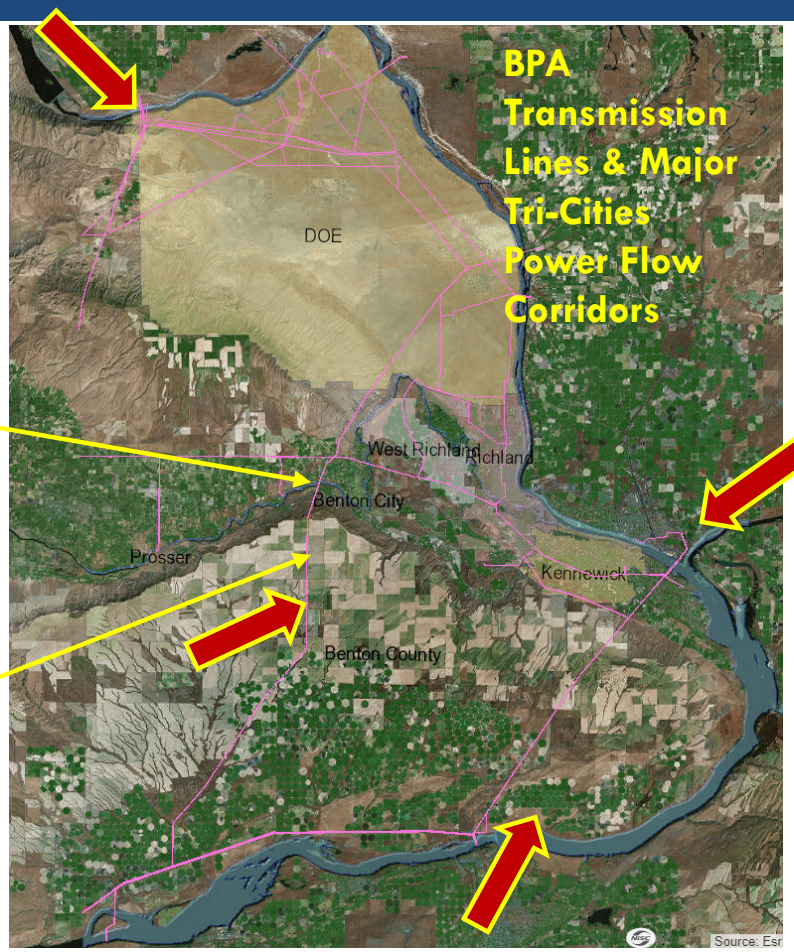
Steve Ernst Mar 1, 2024

Tri-Cities at the Center of BPA Transmission

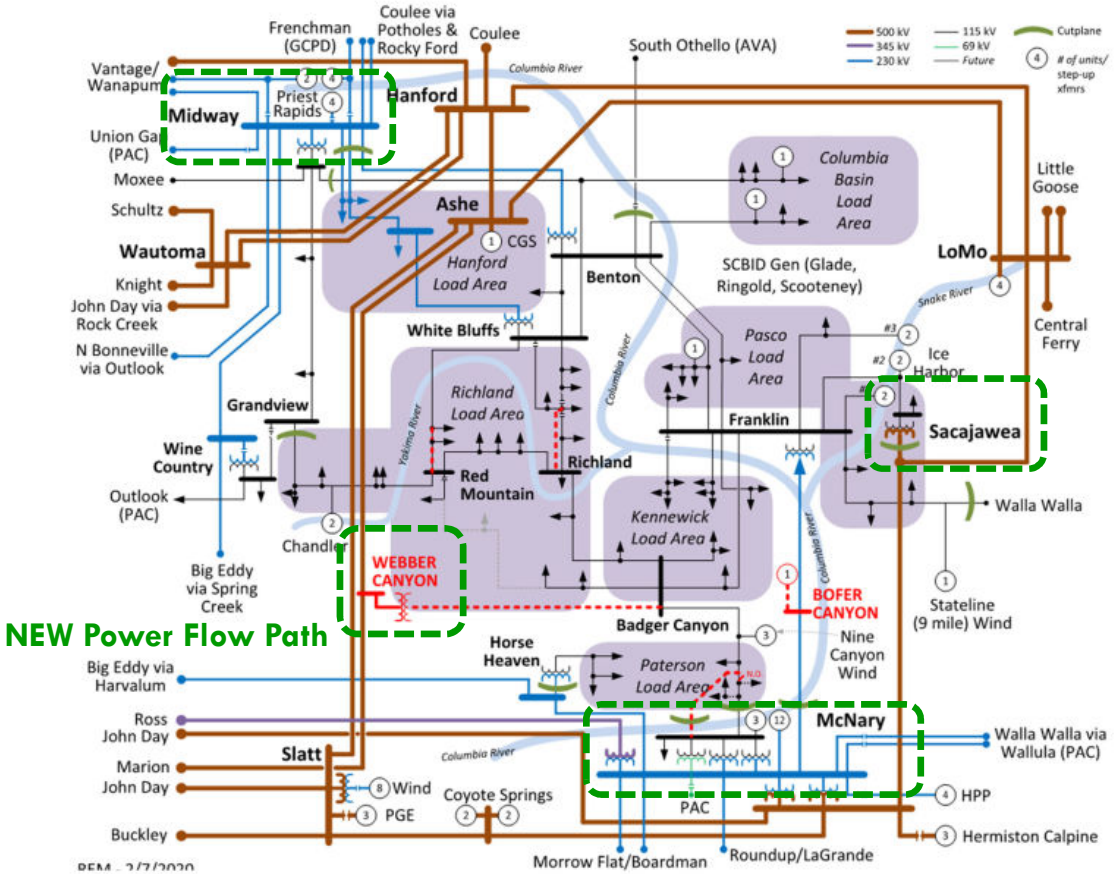


BPA Tri-Cities Area Grid Upgrades





BPA Tri-Cities Area Grid Upgrades



NEW Power Flow Path

BONNEVILLE POWER ADMINISTRATION

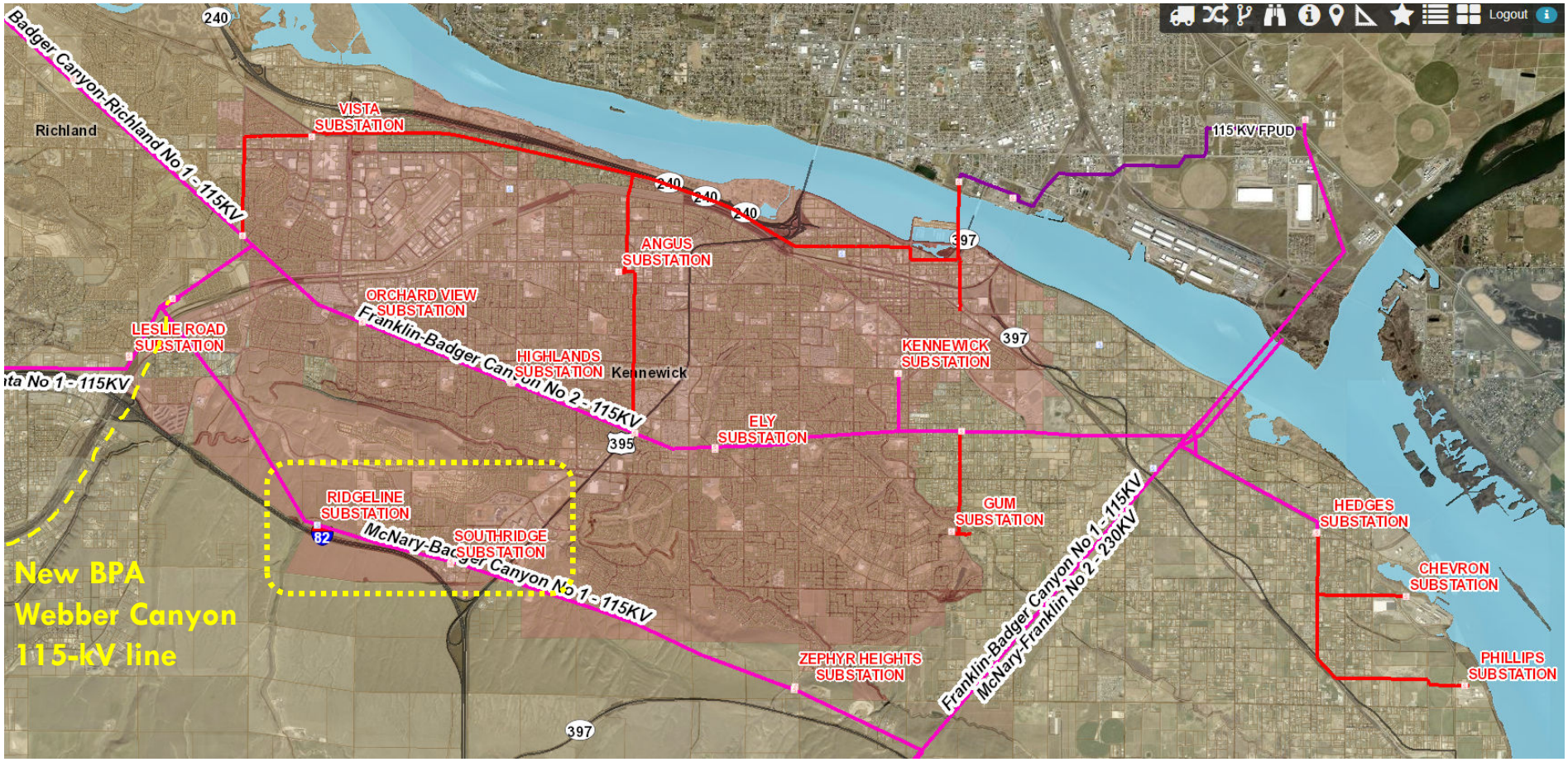
PROJECT STATUS UPDATE | July 2024 Q2 (FY2024)

TRI-CITIES AREA REINFORCEMENT

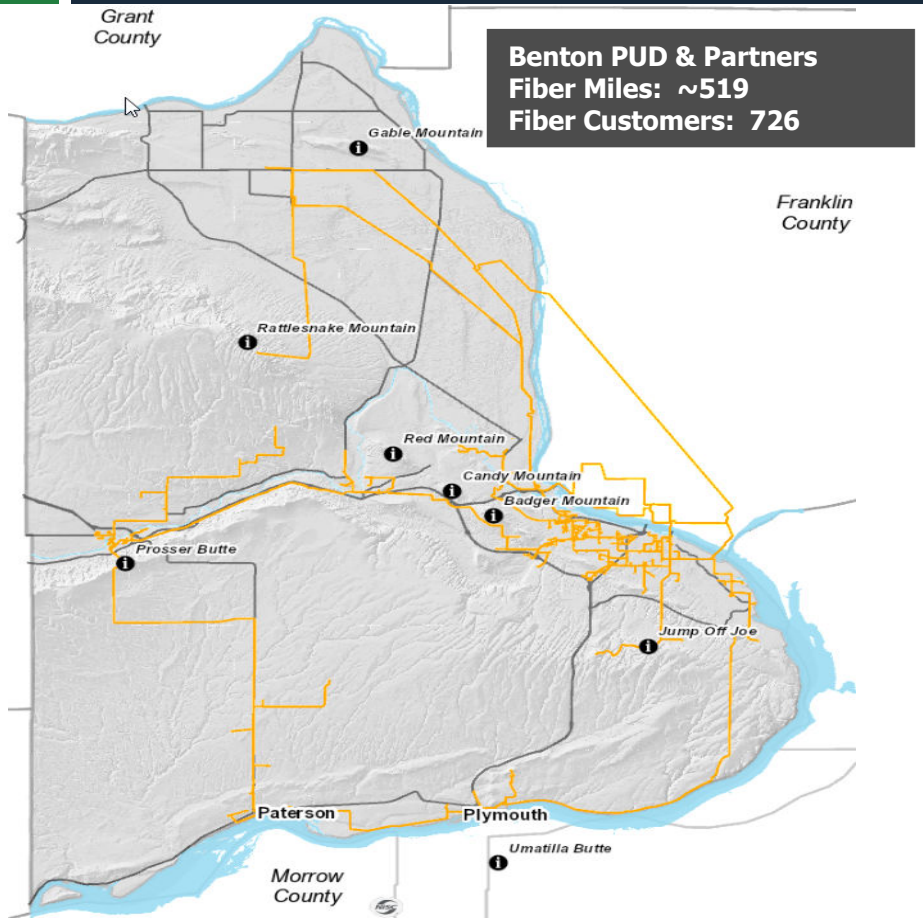
South Tri-Cities Reinforcement	$107M	Winter 2027
McNary-Paterson Tap	$15M	Winter 2024
Red Mountain-Horn Rapids 115 kV Line	$3.6M	Summer 2025
Richland-Stevens Drive 115 kV Line	$12.5M	Spring 2027

- ✓ **2021 Heat Dome Event Tri-Cities Area demand of 1,300 MW**
- ✓ **Increases BPA capacity in the area to 1,750 MW**
- ✓ **Adds 4th 500 kV Power Injection at new Webber Canyon Substation w/ electrons from Columbia Generating Station**

BPUD Well Positioned for Kennewick Growth

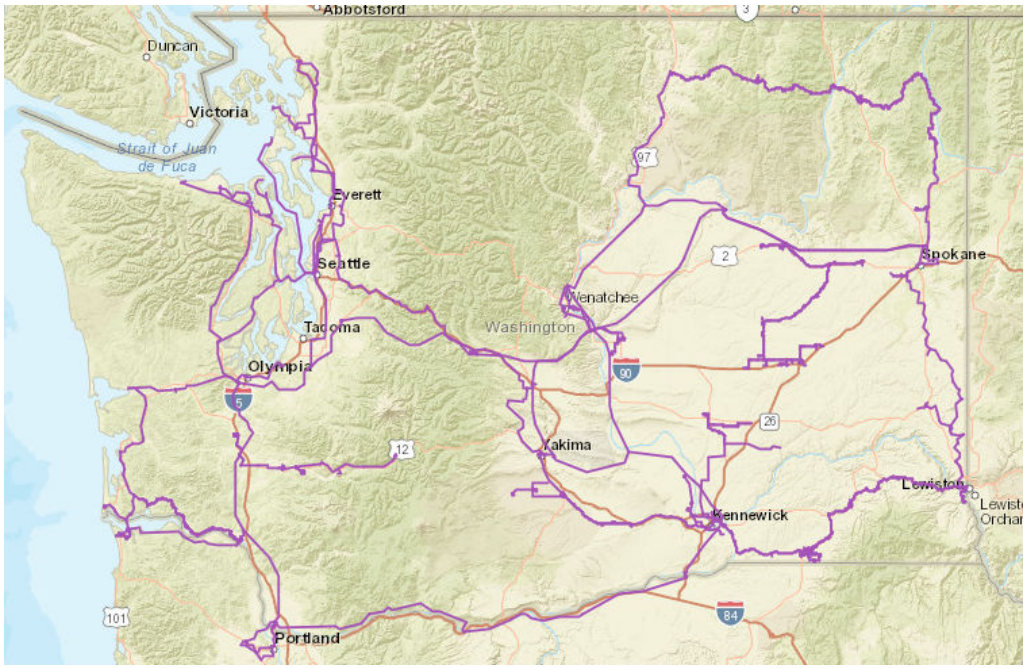


Expansive & World Class Fiber Optic System



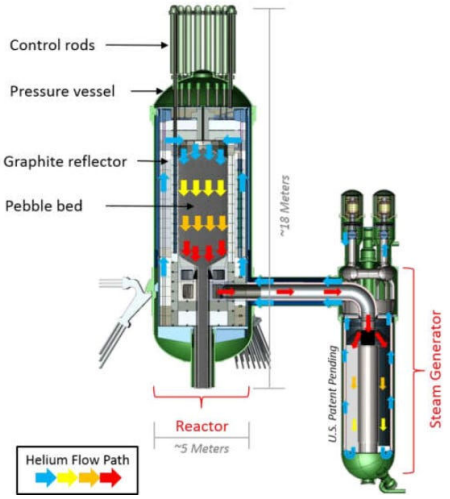
NOANET

- 3,300 miles of network plant with up to 100G Transport Capability
- Touches every county in Washington State
- Benton PUD is one of nine owners (11% each)



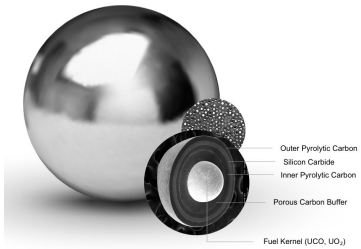
Small Modular Reactors: Possible Long Game Solution

Xenergy XE-100



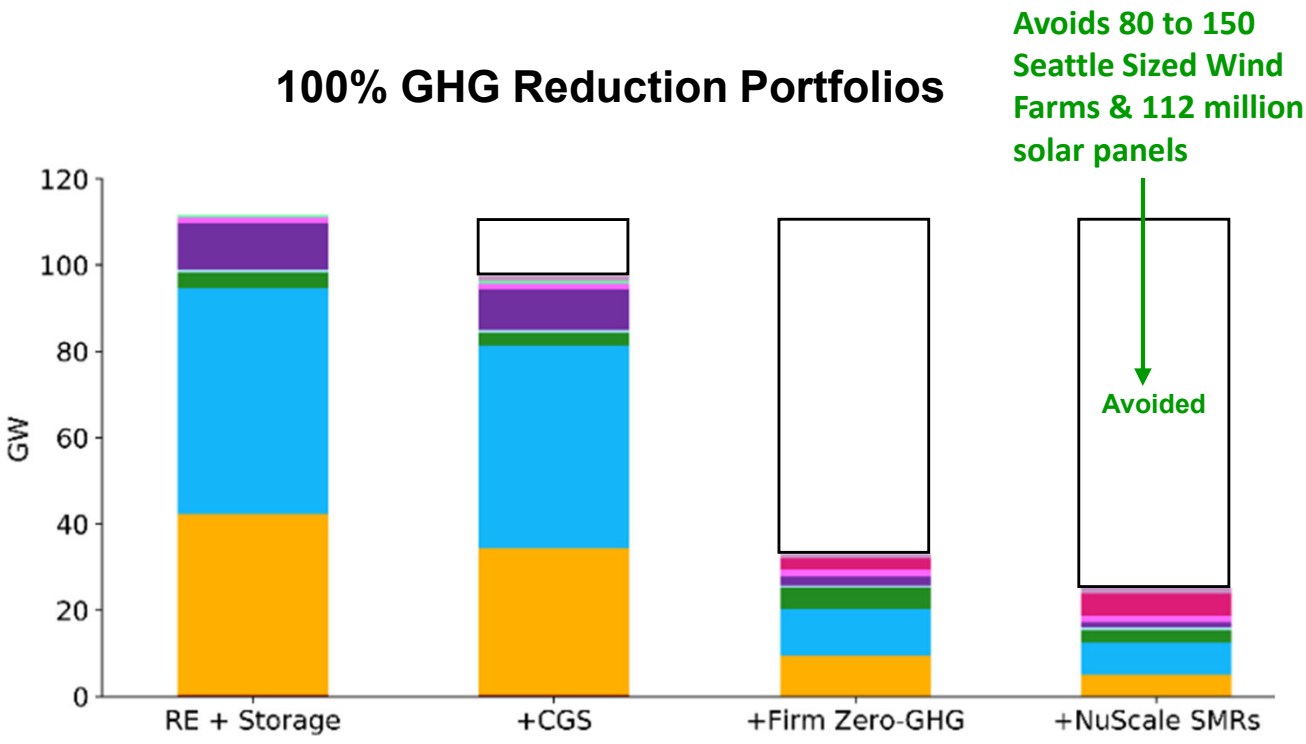
- ✓ **13 Utilities Signed Letters Expressing Interest**
- ✓ **DOE Loan Program Office Application Submitted (in phase 2)**
- ✓ **Puget Sound Energy Providing $10 million**
- ✓ **WA State Legislature $25 M Conditional Funding (CCA stays in place)**

- High Temperature Gas Reactor (HTGR)
  - Helium cooled
  - TRISO fuel



- **1-12 Modules**
- **80 MWe/module (net)**
- 60-year design life; **100+ year asset**
- Continuous on-line refueling
- **Walk-away-safe, meltdown proof**
- Modularized components built off-site, transportable via rail/road

Benefits of zero-emitting firm capacity at 100% GHG reductions



Adding	Avoids
+1.2 GW CGS	-9.5 GW Storage
+5.3 GW SMRs	-44.8 GW Wind
	-37 GW Solar
+6.5 GW Firm	-91 GW Non-firm

CGS + NuScale SMRs reduce system costs by almost $8B per year relative to RE + Storage

Headlines are Telling the Story

CLEARING UP

Energy and Utility News for the Greater Pacific Northwest

✓ **Adding Wind & Solar Will Raise Electricity Rates Substantially**

TOP STORY

PSE Undertakes 'Unprecedented' Expansion of Renewables

Dan Catchpole Feb 16, 2024

TOP STORY

PSE Proposes Rate Change to Help Cover Costs of Clean-Energy Mandates

Steve Ernst Feb 23, 2024

✓ **Transmission Line Planning, Siting, Permitting & Construction Takes a Long Time & is Costly**

TOP STORY

BPA Transmission Expansion Study Hits a 'Brick Wall'

Steve Ernst Mar 1, 2024

Randy Hardy, former BPA administrator and principal at the Seattle-based Hardy Energy Consulting, says the 2023 cluster study shows that "BPA has done all the easy stuff and has hit a brick wall."

Plodding Permit Processes Prompt Another Delay in B2H Construction

Dan Catchpole Apr 12, 2024

Ongoing permit delays have forced Idaho Power to push the start of construction of its 500-kV Boardman to Hemingway transmission line into the second half of the year.

Headlines are Telling the Story

✓ **Forecasted Demand for Electricity Due to Electrification & Data Centers is Through the Roof**

SUPPLY & DEMAND

FEATURED TOP STORY

NW Utilities Say Projected Power Needs Now Double 2022 Expectations

Dan Catchpole May 3, 2024

Northwest utilities say they will need about 29,000 MW of new nameplate capacity by 2034 to meet a 30-percent increase in demand primarily stemming from the development of new data centers, growth in high-tech manufacturing and the continued trend toward electrification, according to the Pac...

TOP STORY

Tech Industry Demand in NW Is Projected to at Least Double by 2029

Dan Catchpole Mar 15, 2024

✓ **100% Carbon Free Electricity Based only on Wind & Solar is Not a Workable Solution for Utilities**

GUEST: Natural Gas Needed for NW Decarbonization Transition

Camilo Amezquita and Roger Gray Apr 19, 2024

The January storm and record demand created significant stress on the regional energy infrastructure and laid bare a scary truth: The integrated gas and electric energy systems we rely upon run on the very edge during extreme cold weather.

If Not Nuclear, Then What?

Steve Ernst Apr 12, 2024

Energy Northwest potentially picked up $25 million from the Washington State Legislature to help fund a feasibility study on the prospects of developing a small modular reactor next door to the Columbia Generating Station.

Canadian Hydro Serving Data Center

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TOP STORY

Powerex to Deliver Firm, Clean Energy to New Microsoft Data Center

Steve Ernst Jun 23, 2023

- 180 MW delivered to Douglas County near Wenatchee, Washington
- Powerex is the exclusive marketer of BC Hydro's surplus capabilities

Conclusions

- ✓ **100% Clean Electricity Mandates**
  - What does it look like when we get there (wind & solar sprawl)?
  - (**Increasing blackout risk**) = (drought + cold/hot weather)
    - We need **every drop of hydropower** we can get!

- ✓ **Need to make room for some new natural gas in the Pacific Northwest**
  - Significant changes to CETA timelines and financial penalties
  - If not . . . risks '**de-industrializing**' Washington

- ✓ **Economic Development Interests**
  - Wholesale **electricity prices very high**, soon to be followed by retail prices
  - Be prepared for **long project lead times** and high costs

- ✓ **Seriously consider small footprint advanced nuclear technology**

rickdunn.substack.com

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Sawing Off the Branch We're Sitting On and Deepening our Dependence on Northwest Hydro for 'Blackout Insurance'

Washington and Oregon have Teamed with the Federal Government to Undermine the Very Hydropower on Which 100% Clean Electricity Mandates were Based

RICKDUNN.SUBSTACK.COM

Northwest Hydro Flexes it's Polar-Vortex Muscle and 'Gone Went the Wind'

The question isn't, can you integrate tens-of-thousands of average megawatts of unreliable wind farms into the grid? The question is, should you?

Council Agenda Coversheet	Item Number:	3.	Date:	8/13/2024	Category: Info Only
	Item Type:	Presentation			
	Subject:	Water Follies After Action Report			
	Department:	Parks & Recreation			

Summary

The presentation of the Water Follies After Action Report includes information from City of Kennewick Parks & Recreation, Kennewick Police Department, Kennewick Fire Department and Water Follies.

This presentation is meant to be informative for the City Council and address the overall success of the event from multiple perspectives. Given the event's substantial impact on the City and the broader region, City staff believe it's essential to keep City Council informed of its outcome.
Nathan Craighill, Hector Cruz and Barb Keltch from Water Follies will briefly speak about the 2024 spring testing event, 2024 Columbia Cup event and look forward to the health of the event, sponsorship, partnership and future ideas for the event.

The Water Follies data is preliminary in nature and the final data will be shared with the Council through the City Manager at a later date.

Attachments:

1. Presentation

Water Follies
After Action Report

Water Follies After Action Report

- Spring Testing
- Parks & Recreation
- Public Safety
- KFD
- Columbia Cup & Air Show
- Event Future

Water Follies

- Spring Testing

Parks & Recreation

Pre-Event Admin Support

- Administrative Event Support
  - Regional meetings
  - Event Walk-Through
  - Insurance document support
  - Contract administration
  - 130hrs+ of COK staff time prior to event

Pre-Event Park Support

- Park Prep
  - Tree Maintenance (~$21,000)
  - Shoreline clearing and upkeep (PW & Parks)
  - Distribution of trash totes
  - General Park prep (3 weeks of dedicated PM time)

Parks & Recreation

Friday: (1) Event Supervisor, (1) Crew Leader, (1) M&C, (1) Night Seasonal
Saturday: (1) Event Supervisor, (2) Seasonal
Sunday: (1) Event Supervisor, (2) Seasonal

Misc. Support

- Mules & ATV's
- Two secure RV's for KPD & KFD
- Janitorial supplies
- Waste Management and Pest Control

Public Safety - Police

The Police Departments objective was to provide a safe environment for all attendants. We will investigate and handle all violations in the park, show a strong presence, and engage with the community.

LE Staffing:

Friday: (2) Commanders, (2) Sergeants, (8) Officers, (2) RPD Officers, (2)WRPD Officers, (2) BCSO Deputies

Saturday: (1) Commander, (4) Sergeants, (11) Officers, (2) RPD Officers, (2)WRPD Officers, (2) BCSO Deputies

Sunday: (1) Commander, (4) Sergeants, (9) Officers, (2) RPD Officers, (2)WRPD Officers, (2) BCSO Deputies

Public Safety – Police cont.

LE Activity:

Friday: Responded to a small fire west end of the park. Trespassed 2 people and assisted KFD with 2 medical calls.

Saturday: Dealt with people refusing to get out of the water. Transported for BCSO with a river arrest. One cited for urinating in public. One lost property and one suspicious circumstance.

Sunday: Responded to a fight near the pits. One lost child, who was located. One disturbance with a male who was warned and asked to leave.

We believe the positive interactions and consistent presence helps in maintaining a safe and family friendly event.

KFD Staffing

KFD Staffing Included:

- 1 Incident Commander
- 2-person roving EMS teams:
  - 1 team – Friday
  - 2 teams – Saturday & Sunday
- 4-person fire protection pit crew
- 2-dedicated ambulance personnel for boat drivers
  - 1 EMT & 1 Paramedic

Equipment Included:

- 1 dedicated ambulance
- 1 dedicated fire engine
- 3 utility task vehicles *(borrowed)*

KFD Services

Friday, July 26th

- 2 - medical incidents
- 0 - ambulance transports
- 1 - fire *(brush, small)*

Saturday, July 27th

- 5 - medical incidents
- 1 - ambulance transport
- 1 - H1 boat flip *(with transport)*

Sunday, July 28th

- 7 - medical incidents
- 2 - ambulance transports
- 1 - H1 boat collision *(non-transport)*

Water Follies

- Attendance
- Health of Event
- Sponsorships & Partnerships
- Future Ideas- larger concert, expand kids zone & activities, bringing in a warrior canoe race hosted by the tribes, and the PA system.

Questions?

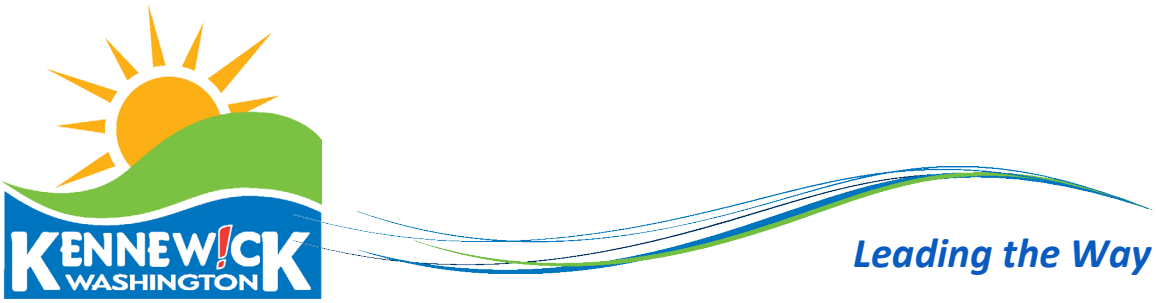
Council Agenda Coversheet	Item Number:	4.	Date:	8/13/2024	Category: Other
	Item Type:	Presentation			
	Subject:	Letter of Support: Salvation Army Proposed Tri-Cities Salvation Army Community Center			
	Department:	City Manager			

Summary

The Salvation Army is requesting a letter of support from the City of Kennewick for a Salvation Army community center at S 20th Ave & Lewis Street. The City Manager has drafted a letter emphasizing the positive impact of the Salvation Army on the community. The Council is requested to review and consider the letter, which is required by or before August 15. Supporting this initiative aligns with this Council's goals of fostering beneficial community partnerships, promoting growth opportunities for citizens, and its priority areas of community safety and quality of life. Unless there are objections from the Council, the City Manager will proceed to have the Mayor sign the letter and send it to the Salvation Army of the Tri-Cities.

Attachments:

1. Letter



The Salvation Army Tri-Cities
310N 4th Ave Pasco, WA 99301

RE: Letter of Support - Proposed Tri-Cities Salvation Army Community Center at S. 20th Ave & Lewis St.

To Whom It May Concern,

I am writing to show my support for building a new Salvation Army center at 20th and Lewis. This center will help people in the Tri-Cities by bringing important services to one place. The Salvation Army serves the community in many ways, but what they are best at is connecting the needy with services. This new center will reduce upkeep costs associated with current buildings, allowing more of the Salvation Army's resources to be directed toward essential community programs. This new building is designed for the future and will serve the community for decades to come.

For over 130 years, The Salvation Army has been very good at using donations wisely, making sure most of the money goes to helping people. This makes them one of the best and most trusted organizations for helping our community.

The new center will be in a great location, making it easier for people from all over the Tri-Cities to get the help they need. It will provide a safe haven during emergencies, offering immediate assistance such as food, shelter, and emotional support. The facility will assist the homeless by connecting them with temporary and transitional housing. It will have a hygiene center and provide job training and counseling to help homeless individuals move towards independence. The center will distribute food and operate meal programs. Youth services are an important part of The Salvation Army's ministry, including after-school programs and summer camps. For the elderly, the center offers companionship and meals, helping seniors stay independent.

The new building will also be a place for spiritual growth, with programs and activities to support people's spiritual health. By addressing all aspects of a person's wellbeing physical, mental, emotional, and spiritual, the community center helps individuals and our community achieve better overall health.

In conclusion, the new Salvation Army center at 20th and Lewis will save money, serve our community for many years, make it easier for people to get help, provide a safe place in emergencies, alleviate the impact of homelessness, and support spiritual growth. This project will have a very positive impact on the Tri-Cities and is worthy of your support.

I hope that you will join me and many others like me who are working to make this vision a reality.

Sincerely,

Gretl J Crawford, Mayor

Office of the Mayor

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