



AWC Annual Conference – Understanding the Energy Grid of Tomorrow

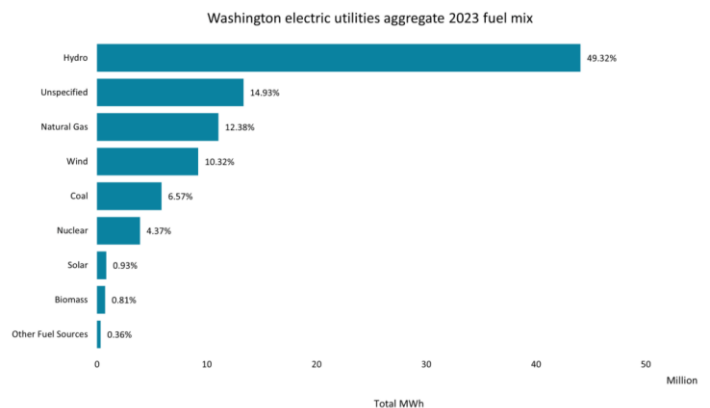
Clint Whitney
Energy Services Director
City of Richland
June 25, 2025

1



Where Does “it” Come From Today

- It takes Power Generation and Transmission.
- [2023 WA Generation Fuel Mix](#)
- [US Energy Information Administration, EIA-861 Data Source](#)

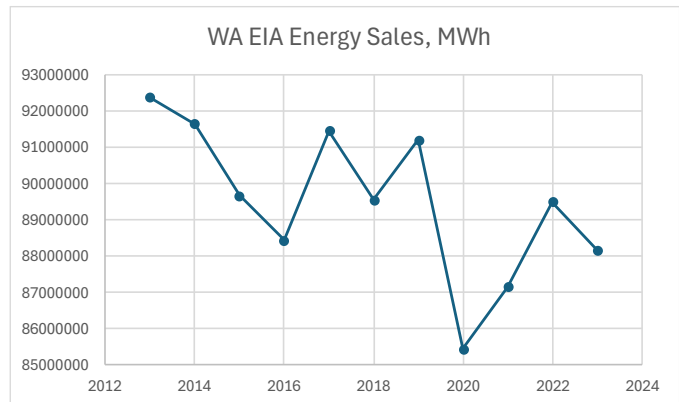


WA electric utilities aggregate 2023 fuel mix

2

Today vs Projections

- WA Loads from EIA-861
 - $90 \times 10^6 \text{ MWh} = 10.3 \text{ aGW}$
- [WA 2021 Energy Strategy](#)
 - Doubling of loads by 2045?



3

Summary - What Trends Are Here & Coming

- Electrification – Regulatory requirements for conservation and climate change.
- Electric Vehicles (EV) & Hybrids
- Data Storage – Artificial Intelligence (AI)
- Generation – Coal -> Natural Gas, Solar, Wind, Nuclear & SMR
- Energy Storage
- Wildfires

4

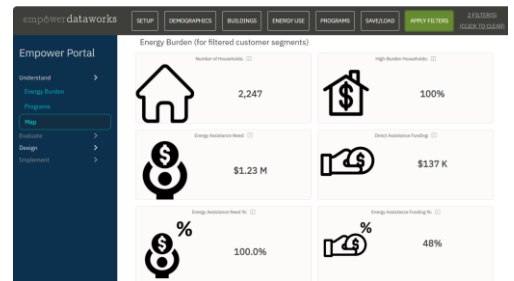
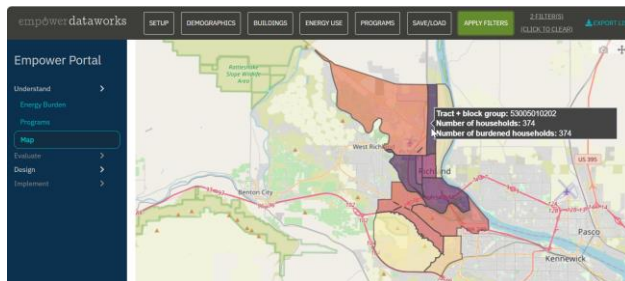
Trends in Richland

- Average of 110 MW with ~0.8% annual electrical growth rate.
- Residential construction – smaller lots, planned communities, complete streets, solar & EV installations.
- Commercial – more cautious construction
- Large Industrial – New Large Single Loads (NLSLs) > 10aMW
 - 300 MW – Green Fertilizer Production
 - 100 MW – Nuclear Supply Chain
 - 350 MW – Data Center
- Transmission Interconnection Queue for New Loads -> 3-5 years+

5

Customer Engagements

- EE Conservation – Residential loans inc'd to \$25k
- Targeted Low Income Areas – Insulation & Grant
- Upcoming Prepay Metering Opportunities
- Linecrew Educational Outreach



6