Pathway Forward for Powering Oregon

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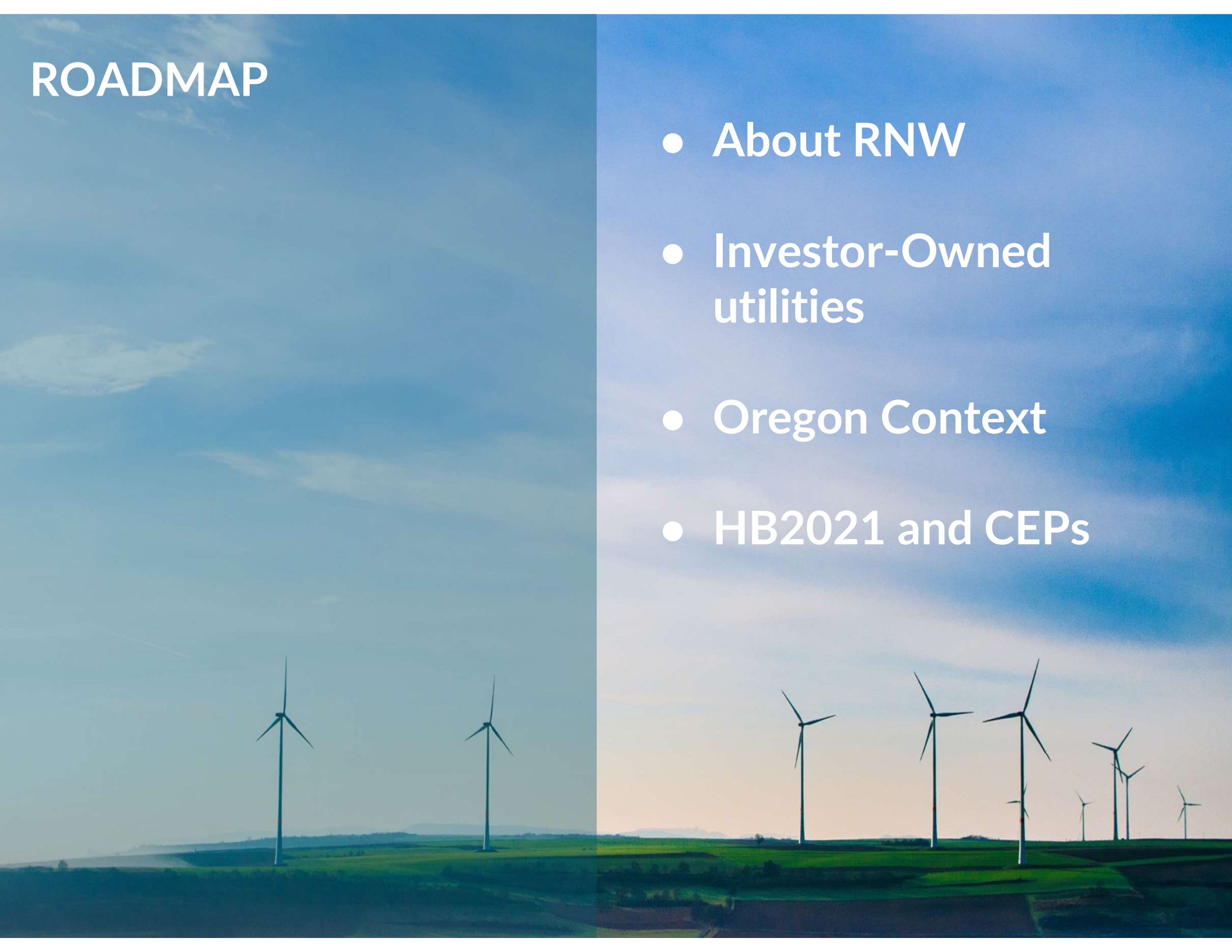
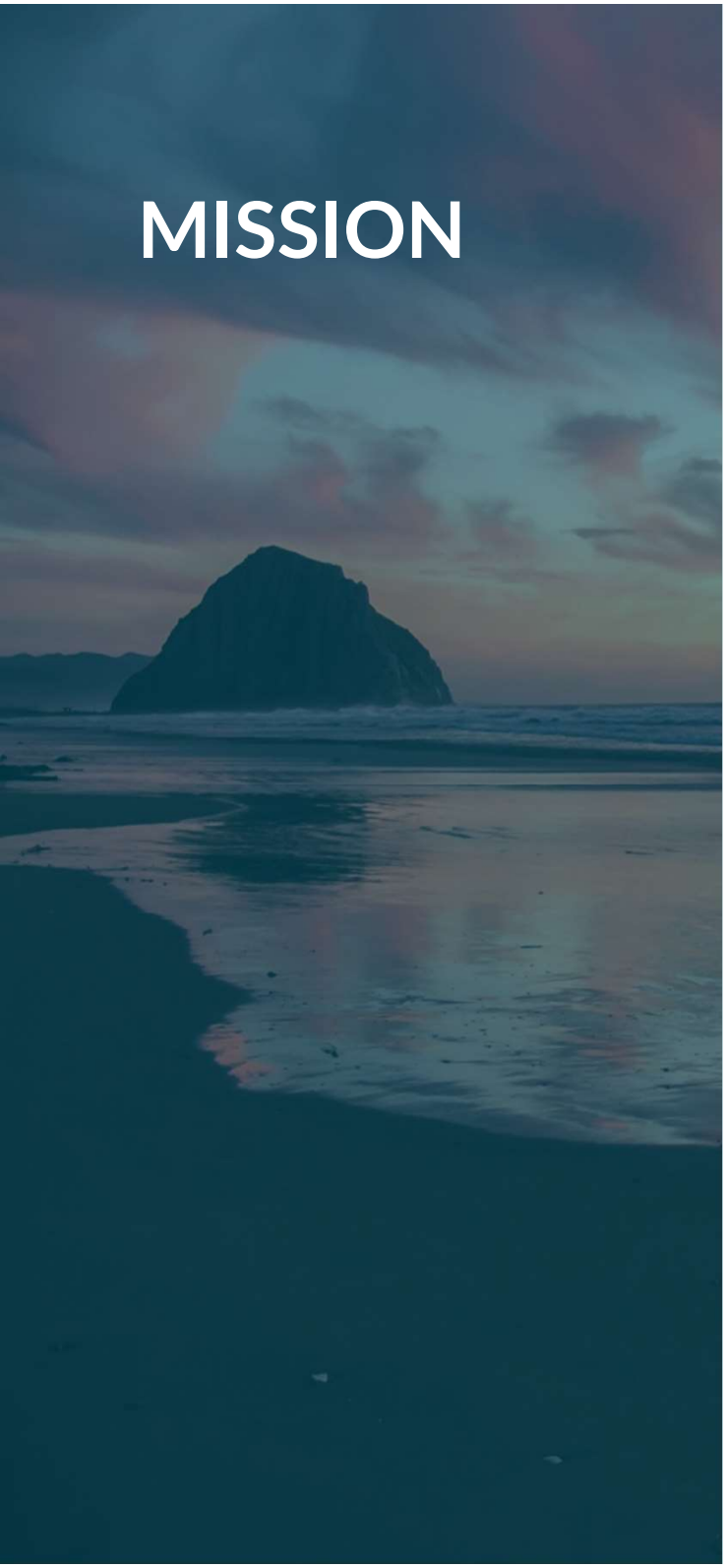
Renewable NW

December 6th, 2023

ROADMAP

- About RNW
- Investor-Owned utilities
- Oregon Context
- HB2021 and CEPs





MISSION

Renewable Northwest is a 501(c)3, based in Oregon, dedicated to **decarbonizing the region by transitioning to renewable electricity in a responsible and just manner**.

We engage in policy, regulatory, and markets & transmission work.

Investor Owned and Consumer Owned Utilities

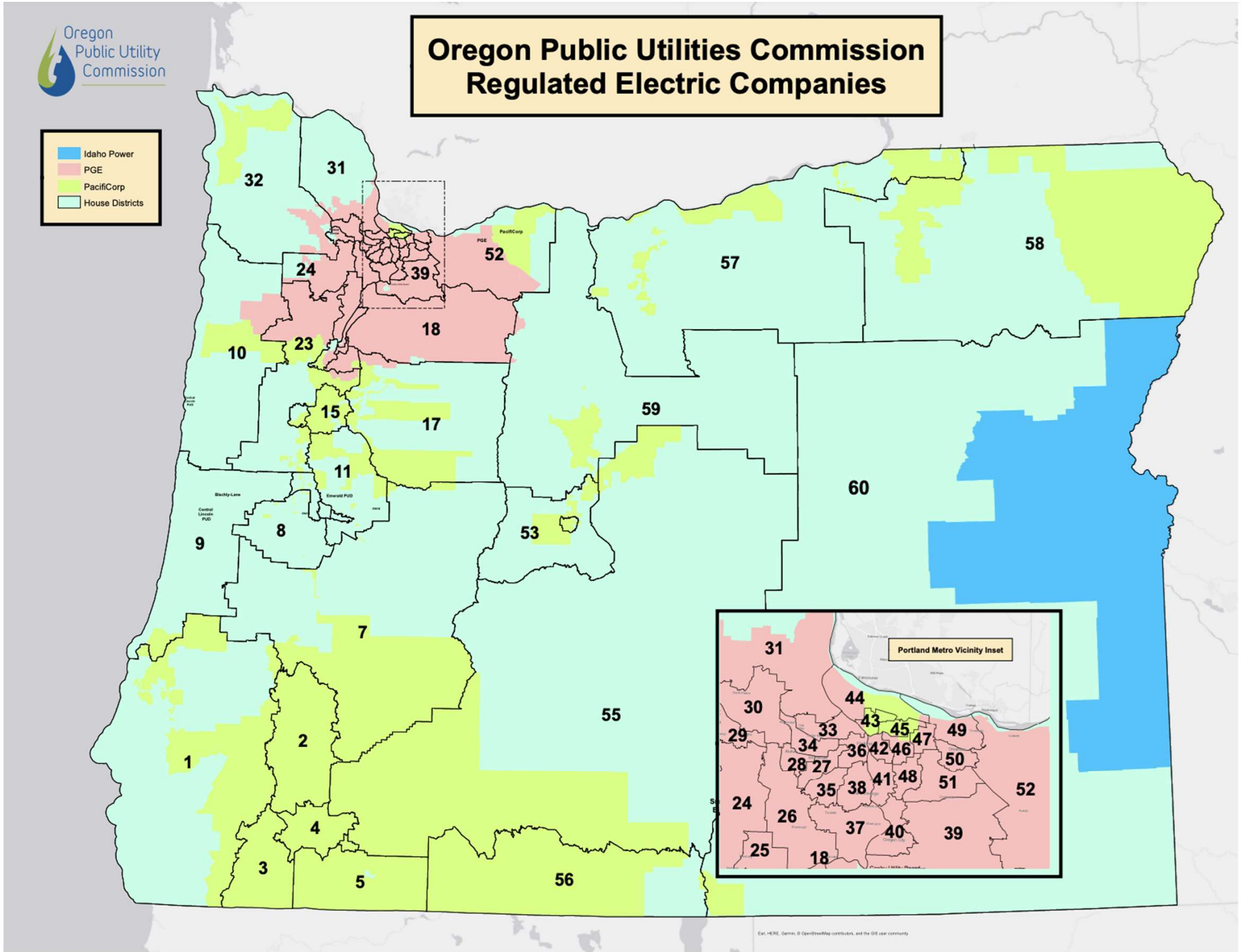
Investor owned utilities (IOUs)

- Portland General Electric
- PacifiCorp
- Idaho Power

Where RNW works

Consumer Owned Utilities (COUs)

- Electric Cooperatives
- Municipal Electric Utilities
- People's Utility Districts


Oregon Public Utility Commission
Oregon Public Utilities Commission
Regulated Electric Companies
Idaho Power
PGE
PacifiCorp
House Districts
Portland Metro Vicinity Inset
PacifiCorp
PGE
Blachly-Lane
Emerald PUD
Central Lincoln PUD
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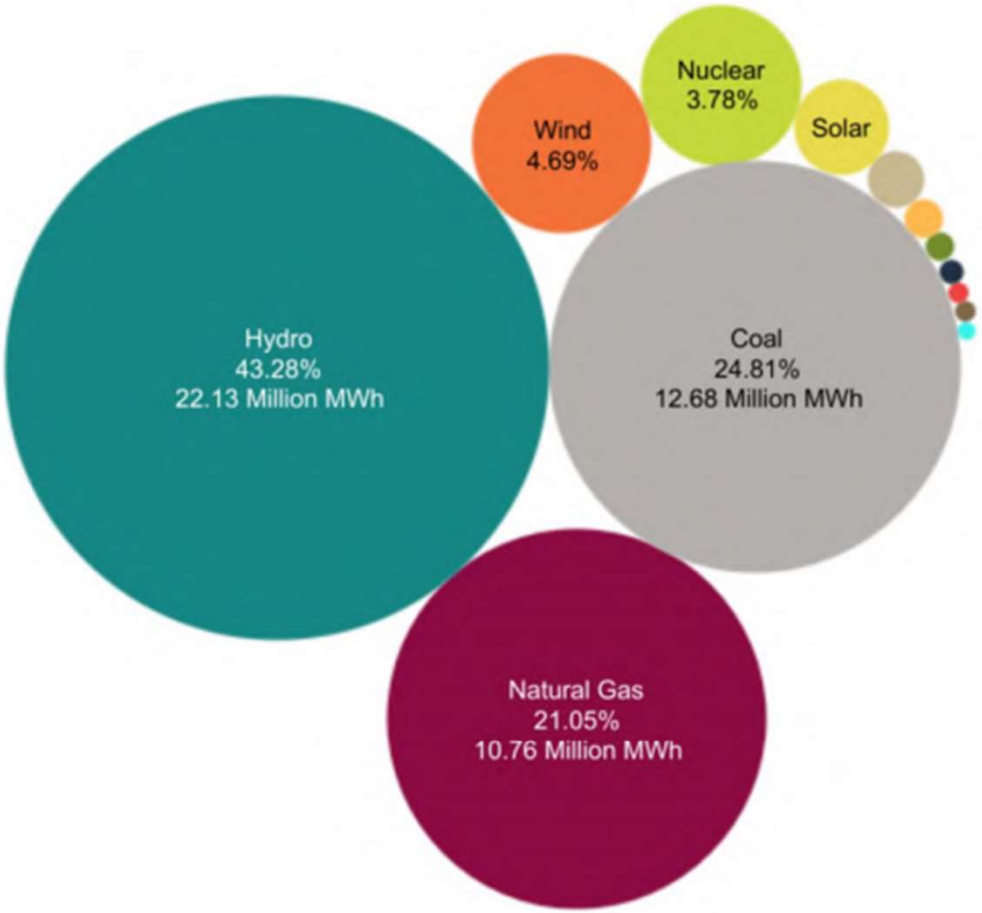
OREGON CONTEXT: ENERGY USE

Resources Used to Generate Oregon's Electricity

Based on 2018 data, this chart shows the energy resources used to generate the electricity that is sold to Oregon's utility customers.



Oregon Department of Energy

Resource

- Hydro
- Coal
- Natural Gas
- Wind
- Nuclear
- Solar
- Biomass
- Other Non-Biogenic
- Geothermal
- Biogas
- Waste
- Landfill Gases
- Others
- Other Biogenic
- Petroleum

Oregon Exports

68% of wind generation
66% of geothermal generation
38% of hydroelectric generation
12% of solar generation

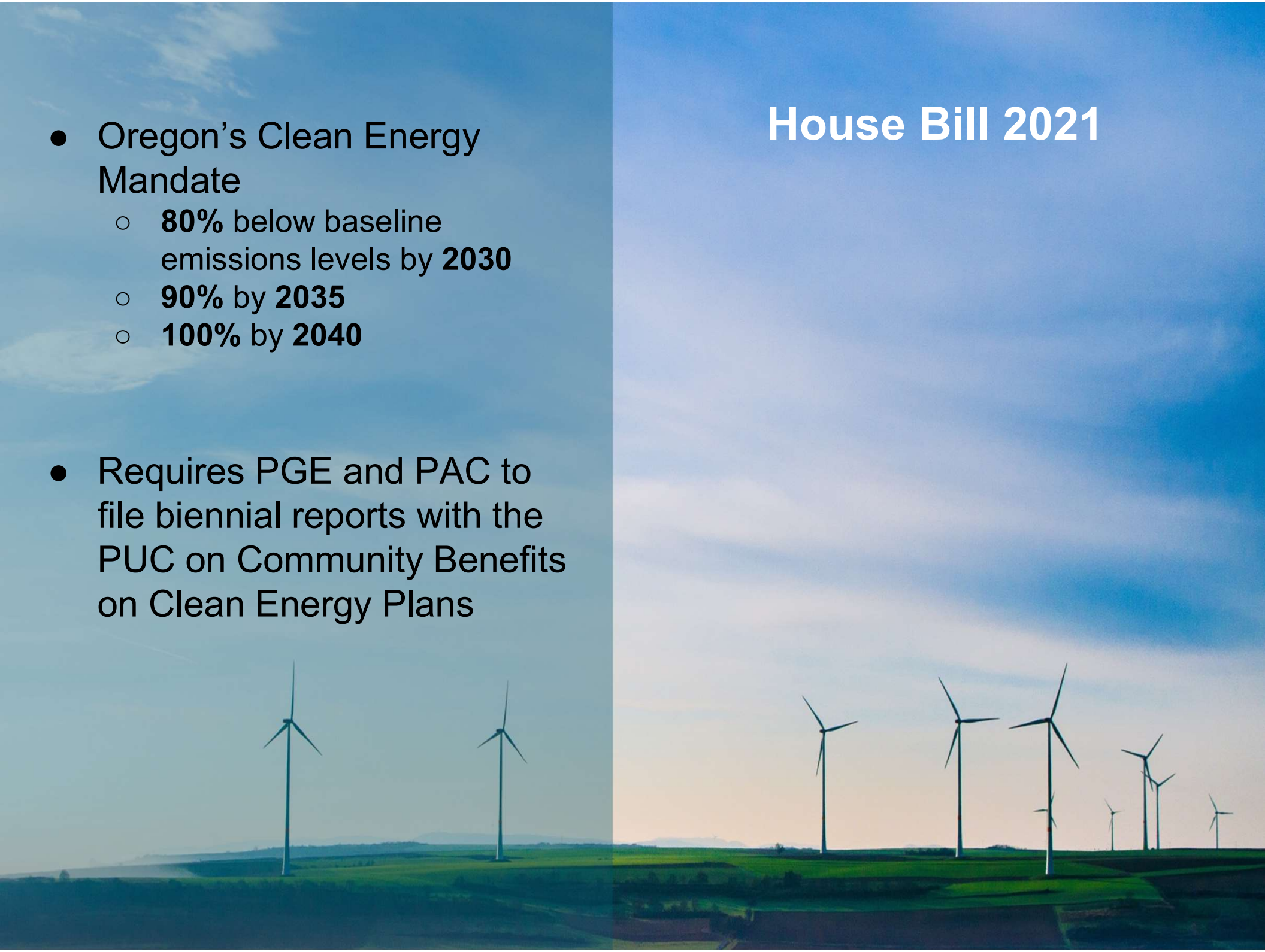
Oregon Imports

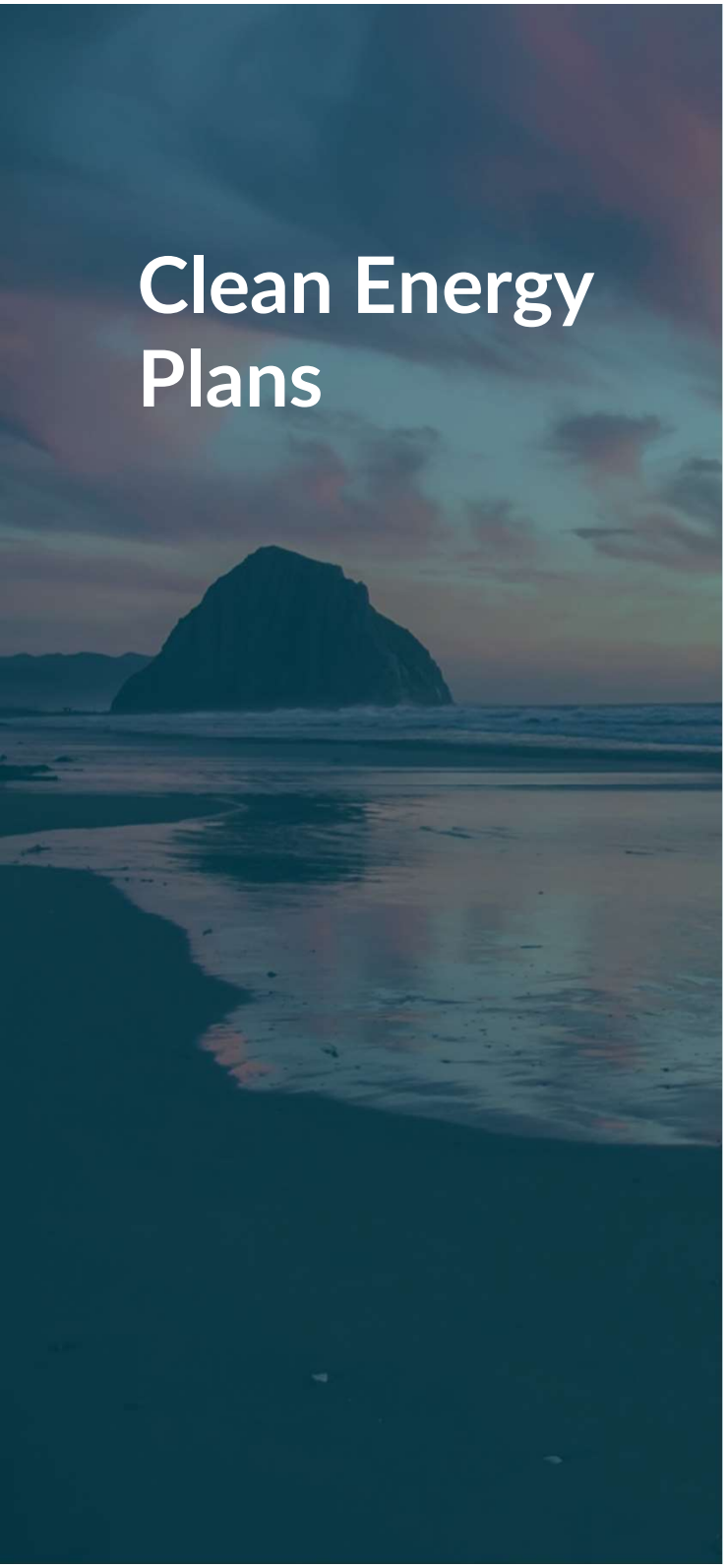
88% of coal based electricity
100% of nuclear electricity

House Bill 2021

- Oregon's Clean Energy Mandate
  - **80%** below baseline emissions levels by **2030**
  - **90%** by **2035**
  - **100%** by **2040**

- Requires PGE and PAC to file biennial reports with the PUC on Community Benefits on Clean Energy Plans





Clean Energy Plans

"PGE and PacifiCorp must submit '**Clean Energy Plans**' that are based on or included in an IRP…"

A Clean Energy Plan must:

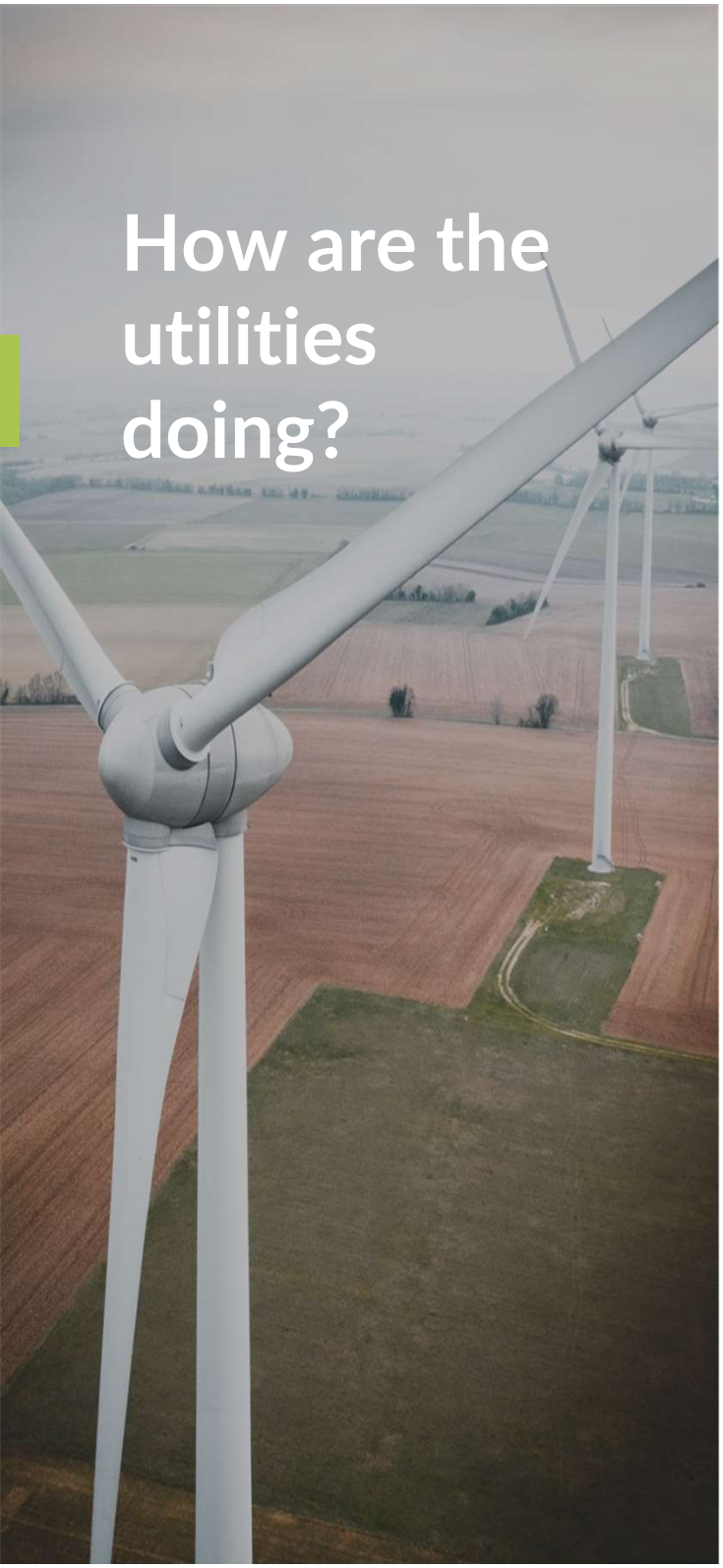
- Include actions that make progress towards the clean energy targets
- Examine resiliency opportunities
- Examine the costs and opportunities between fossil fuels and community-based renewable energy
- Result in an affordable, reliable and clean electric system

CEPs Continued…

The **PUC must acknowledge the clean energy plan** within six months if the plan is in the **public interest** and consistent with the clean energy targets.

The PUC considers:

- Expected **reduction of greenhouse gas emissions** and any related **environmental or health benefits**
- **Economic and technical feasibility**
- The effect of the plan on the **reliability and resiliency** of the electric system
- Availability of **federal incentives**
- **Costs and risks** to the customers
- Other relevant factors



How are the utilities doing?

"Assessed holistically, PGE's IRP/ CEP present a meaningful first step toward the type of wholesale transformation envisioned by those involved in passing HB 2021"

- RNW Comments on PGE's IRP/CEP

"If implemented well, the IRP will successfully guide procurement that allows for the continuation of reliable, affordable electric service."

- RNW Comments on PacifiCorp's IRP

Thank you.

Any Questions?

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PGE Preferred Portfolio

Table 64. Cumulative resource buildout in Preferred Portfolio (MW)

	2024	2025	2026	2027	2028	2029	2030
Wind	0	0	227	627	901	1172	1334
Solar	0	0	0	0	0	490	756
Hybrid	0	0	0	0	0	0	0
Storage	0	0	232	232	232	232	232
CBREs	0	0	65	84	110	133	155
WY Tx	0	0	44	44	44	44	206
NV Tx	0	0	0	0	0	0	49
SoA Tx	0	0	0	400	400	400	400
Additional EE & DERs	0	0	0	0	0	0	0
Non-GHG-Emitting Contract Extension	0	0	200	200	200	200	200
Cost-effective EE (MWa)	30	60	90	120	150	183	216
Cost-effective DR	133	162	183	199	211	218	228
Clearwater Wind	311	311	311	311	311	311	311
Wasco solar (RFP Proxy)	0	230	230	230	230	230	230
Christmas Valley solar (RFP Proxy)	0	180	180	180	180	180	180
4 hr battery (RFP Proxy)	0	400	400	400	400	400	400

PacifiCorp

Figure 7 – 2023 IRP Preferred Portfolio (All Resources)

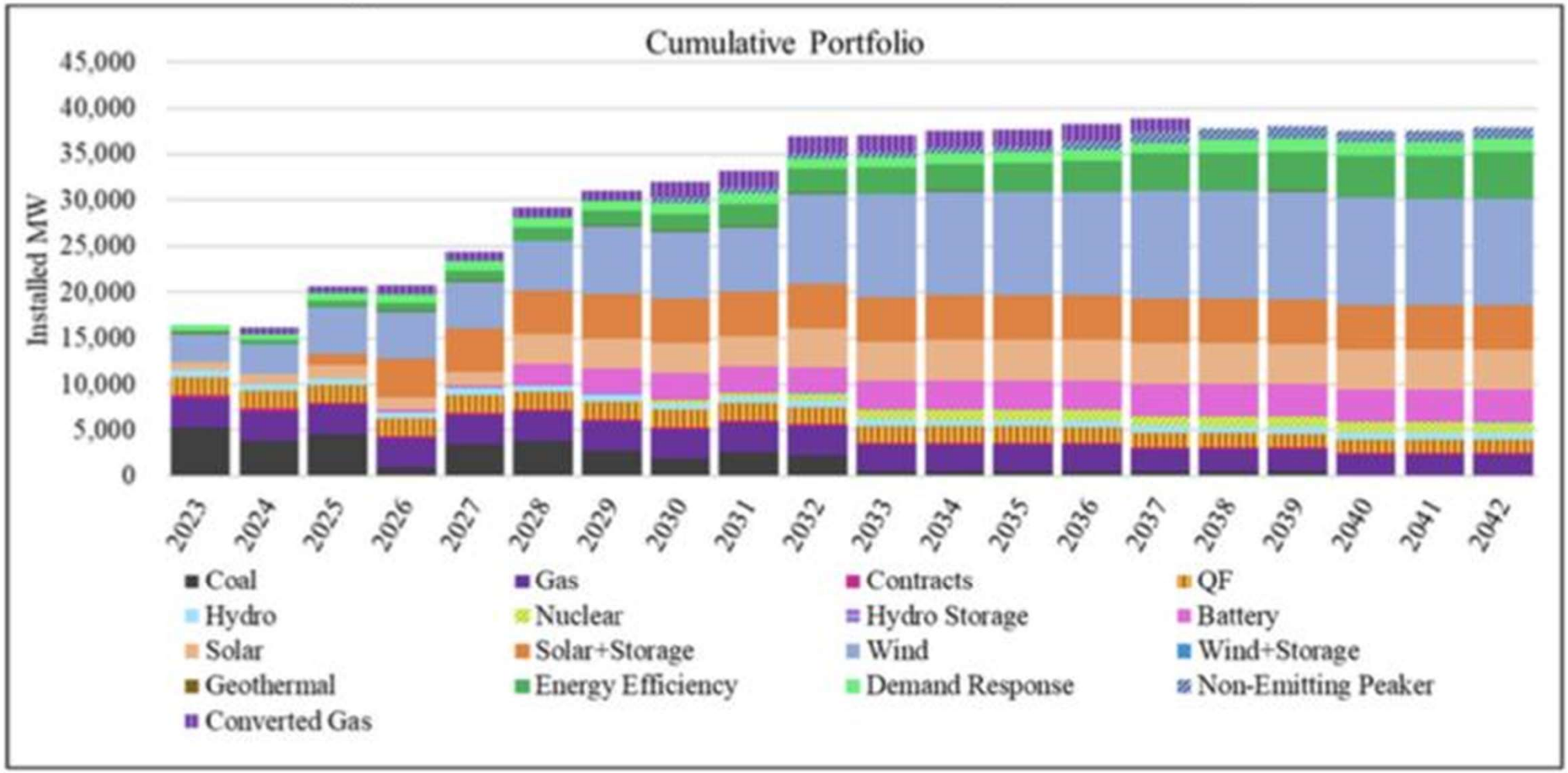
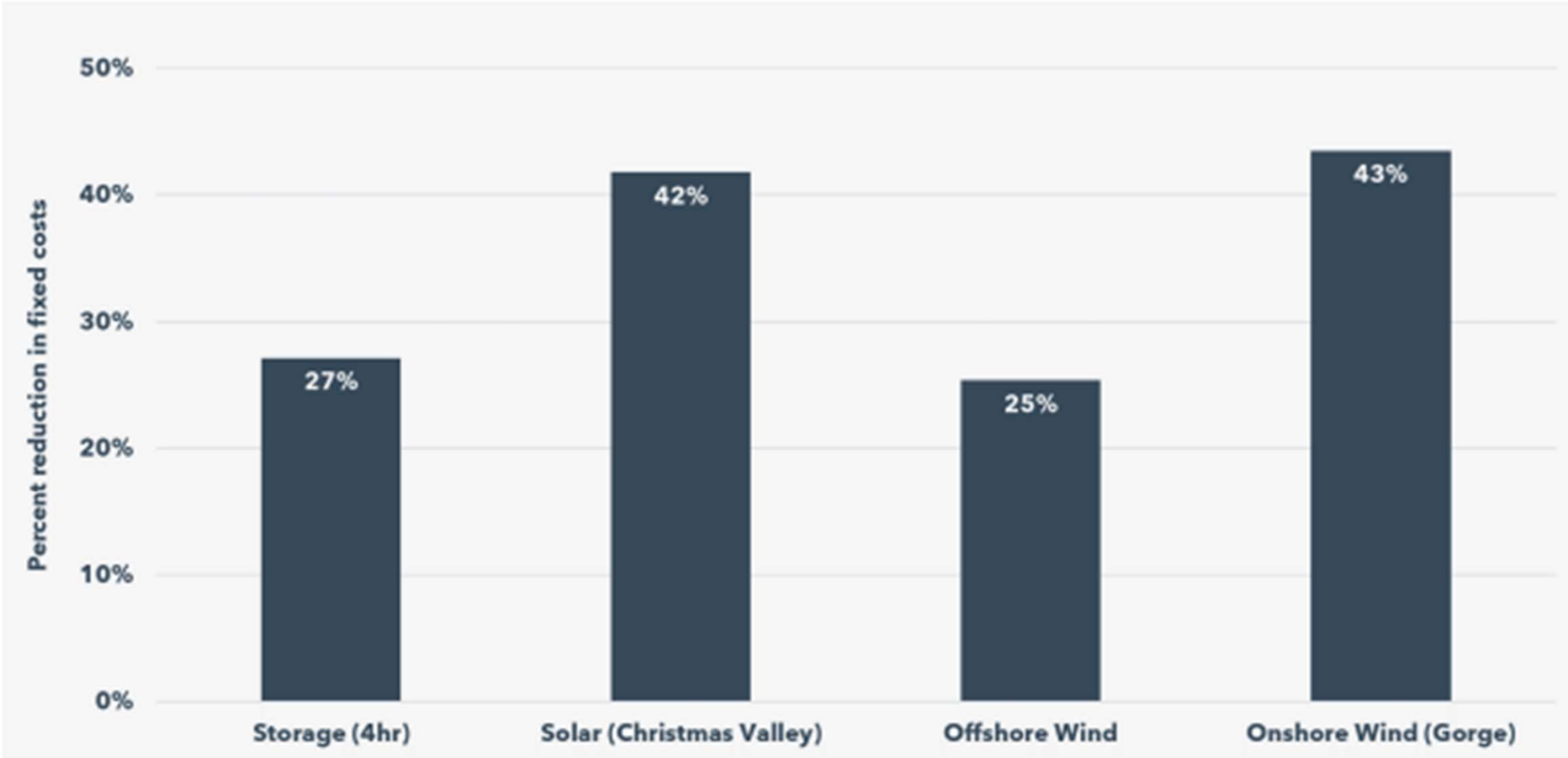


Figure 14. Estimated cost reduction from IRA for select generation sources



Key OR Environmental Policies

Energy:

- Renewable Portfolio Standard (RPS)
- HB2021

Climate:

- EO 20-04
  - Climate Protection Program
  - State Agency Axn and/or Review
- Clean Fuels Program

Working Groups:

- OR Global Warming Commission
- Environmental Justice Council
- REBuild Task Force
- Others…

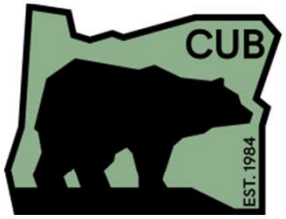
OUR WORK IN OREGON

While also…

- Thinking about the customers and community impacts
  - How does this impact rates? Are there other benefits that communities can gain through this process? Are there possible economic benefits?
- Keeping in mind environmental and conservation considerations
  - How do projects balance conservation considerations?
- Considering what works for the Oregon context
  - Geographic, historic, economic

GEOGRAPHY

SOME OF OUR MEMBERS



Twende Solar

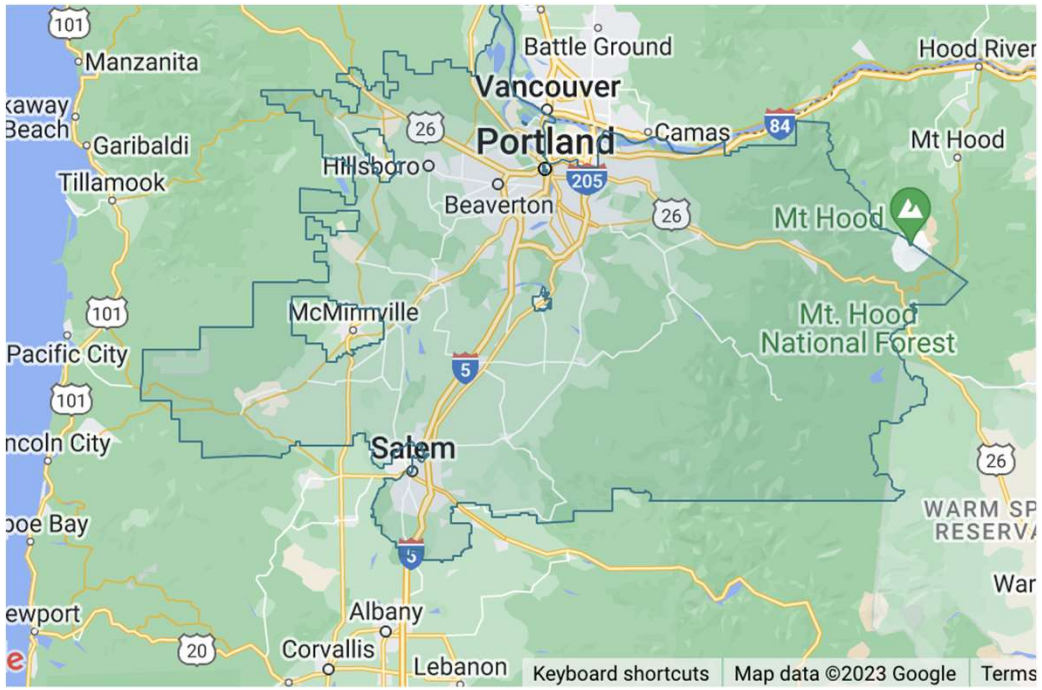
Slide 18

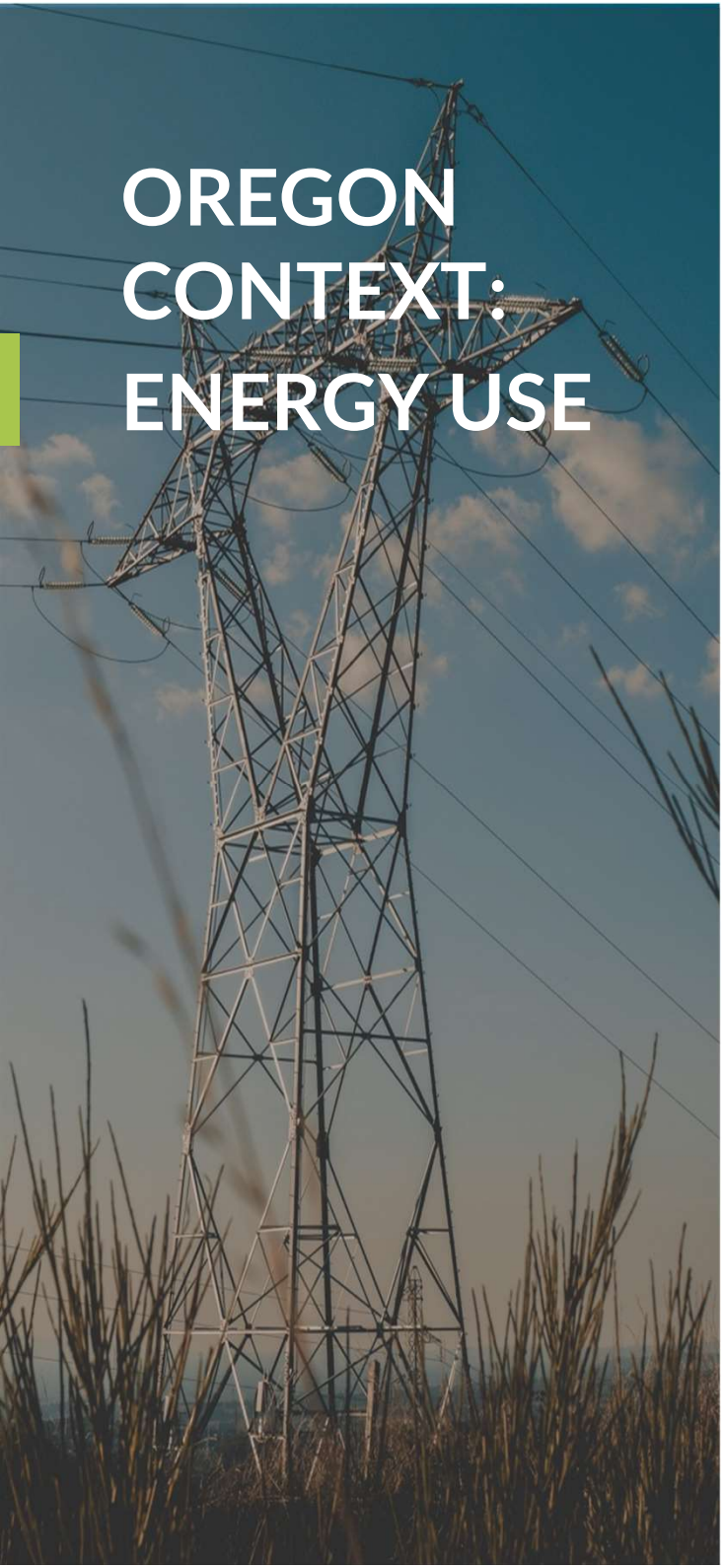
1 take out?
Emily Griffith, 12/6/2023

Portland General Electric and PacifiCorp Territories

PGE:

Pac:





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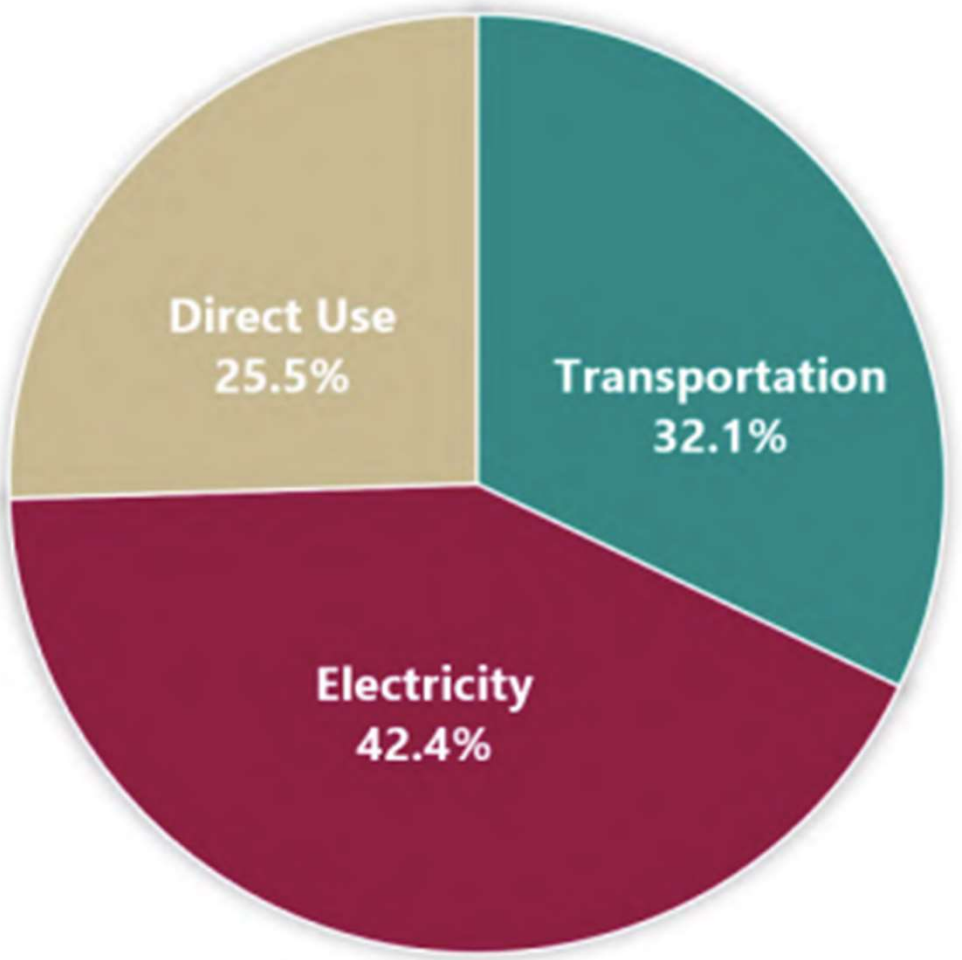
Oregon Department of Energy