Oregon's Clean Energy Transition

Janine Benner, Oregon Department of Energy

December 6, 2023

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Leading Oregon to a safe, equitable, clean, and sustainable energy future.

Our Mission

The Oregon Department of Energy helps Oregonians make informed decisions and maintain a resilient and affordable energy system. We advance solutions to shape an equitable clean energy transition, protect the environment and public health, and responsibly balance energy needs and impacts for current and future generations.

What We Do

On behalf of Oregonians across the state, the Oregon Department of Energy achieves its mission by providing:

- A Central Repository of Energy Data, Information, and Analysis
- A Venue for Problem-Solving Oregon's Energy Challenges
- Energy Education and Technical Assistance
- Regulation and Oversight
- Energy Programs and Activities

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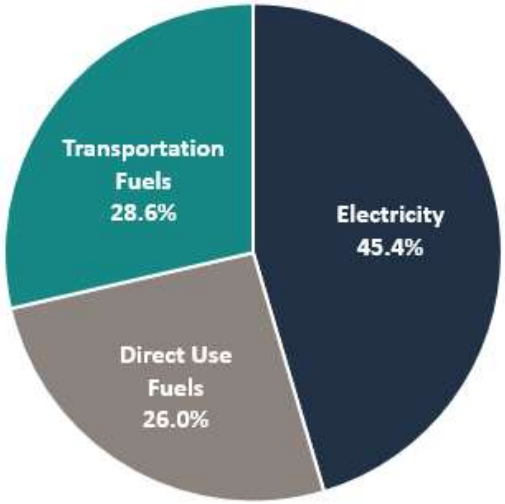
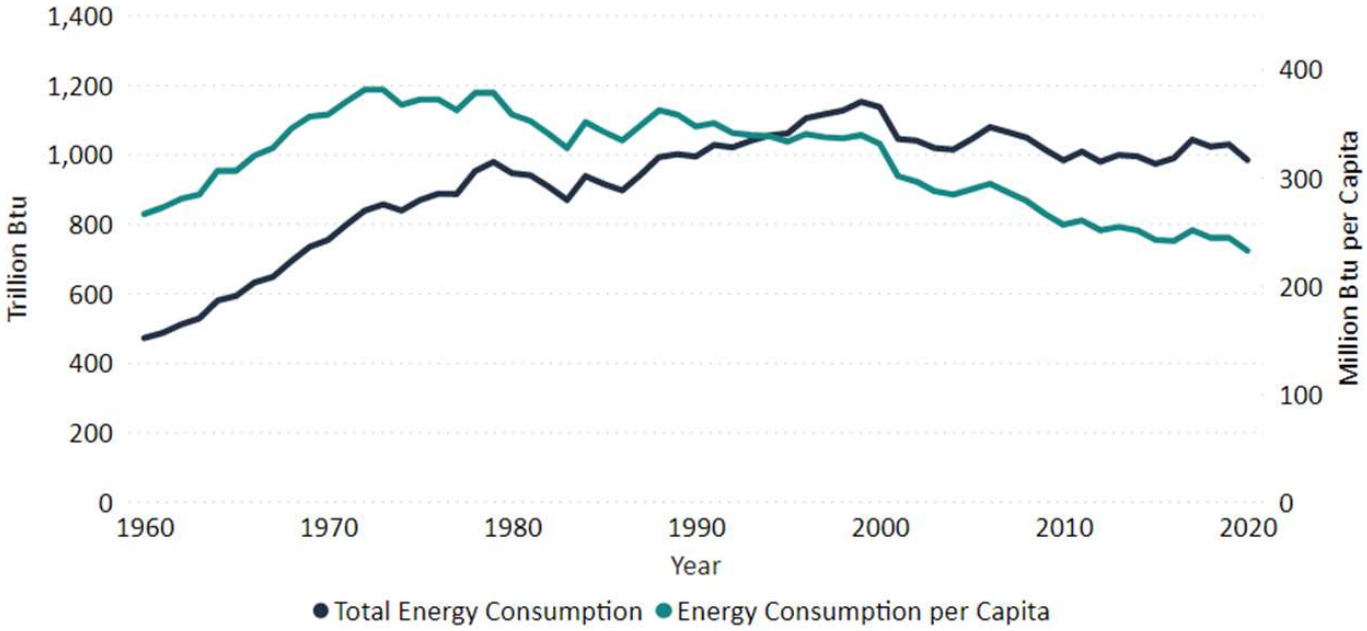
Consumption by Source (2020)



Oregon's Energy Consumption and Per Capita Energy Consumption Over Time



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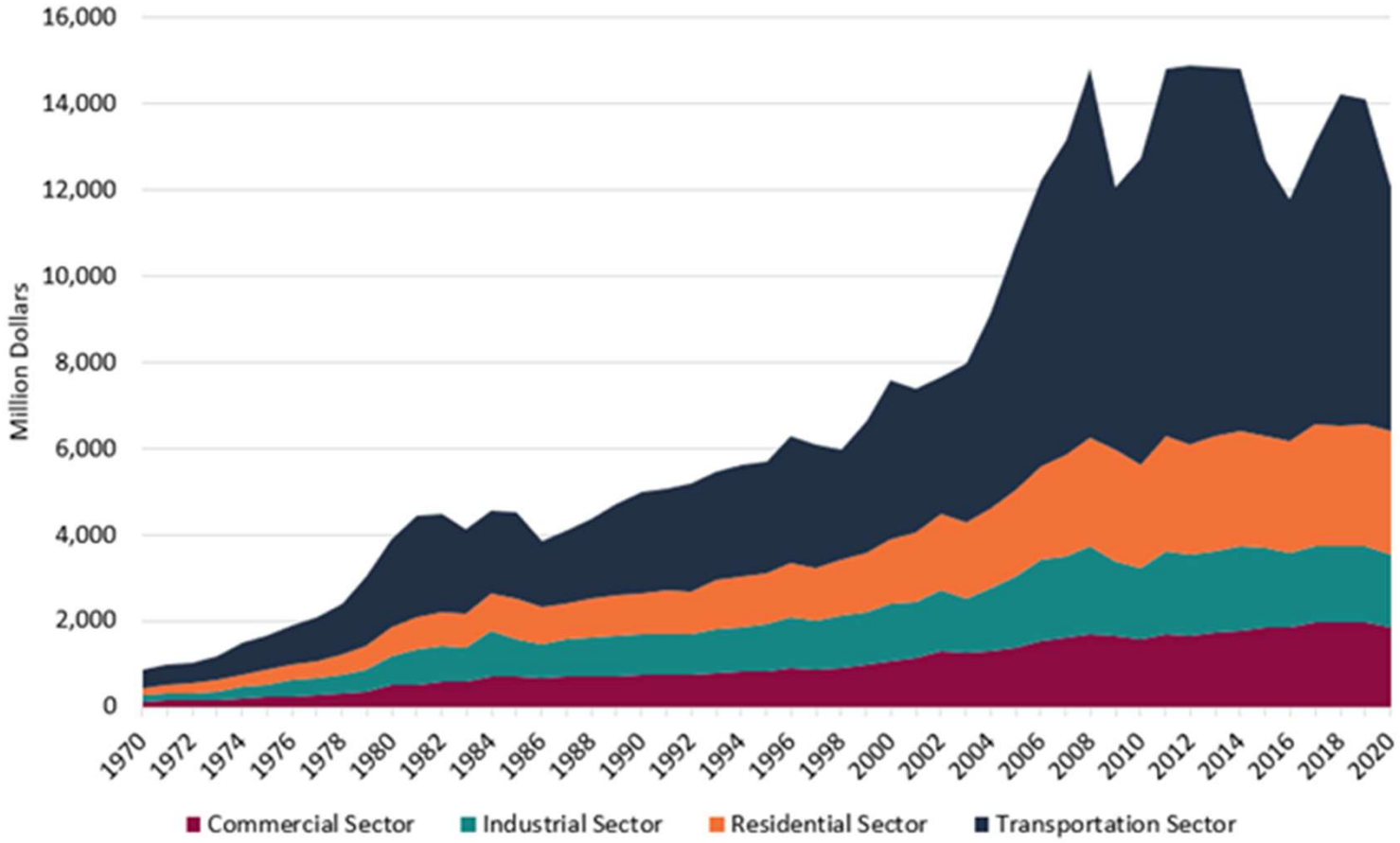
Oregon's Total Energy Expenditures by Sector Over Time



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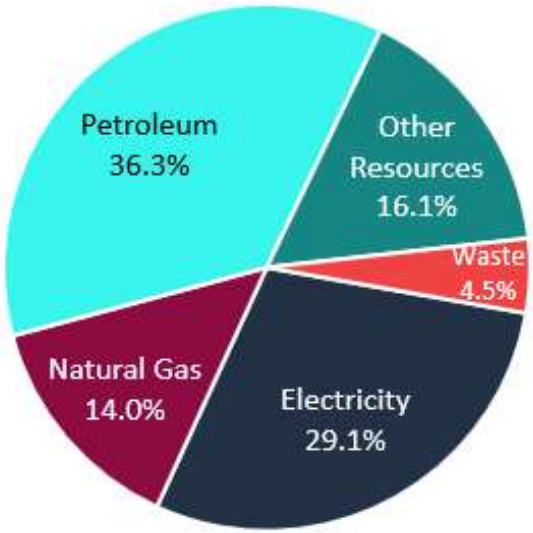
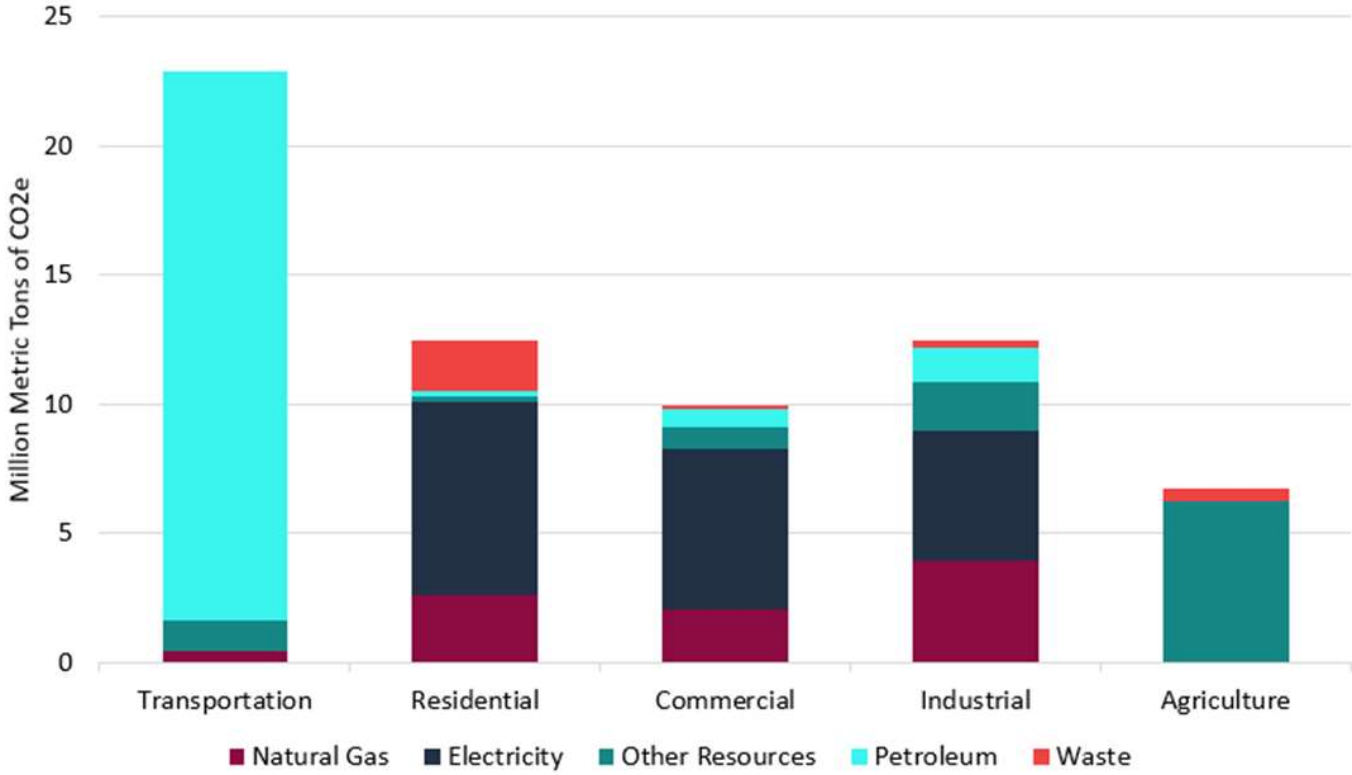
Greenhouse Gas Emissions by Source (2019)



Oregon Greenhouse Gas Emissions by Sector and Source (2019)



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JB0

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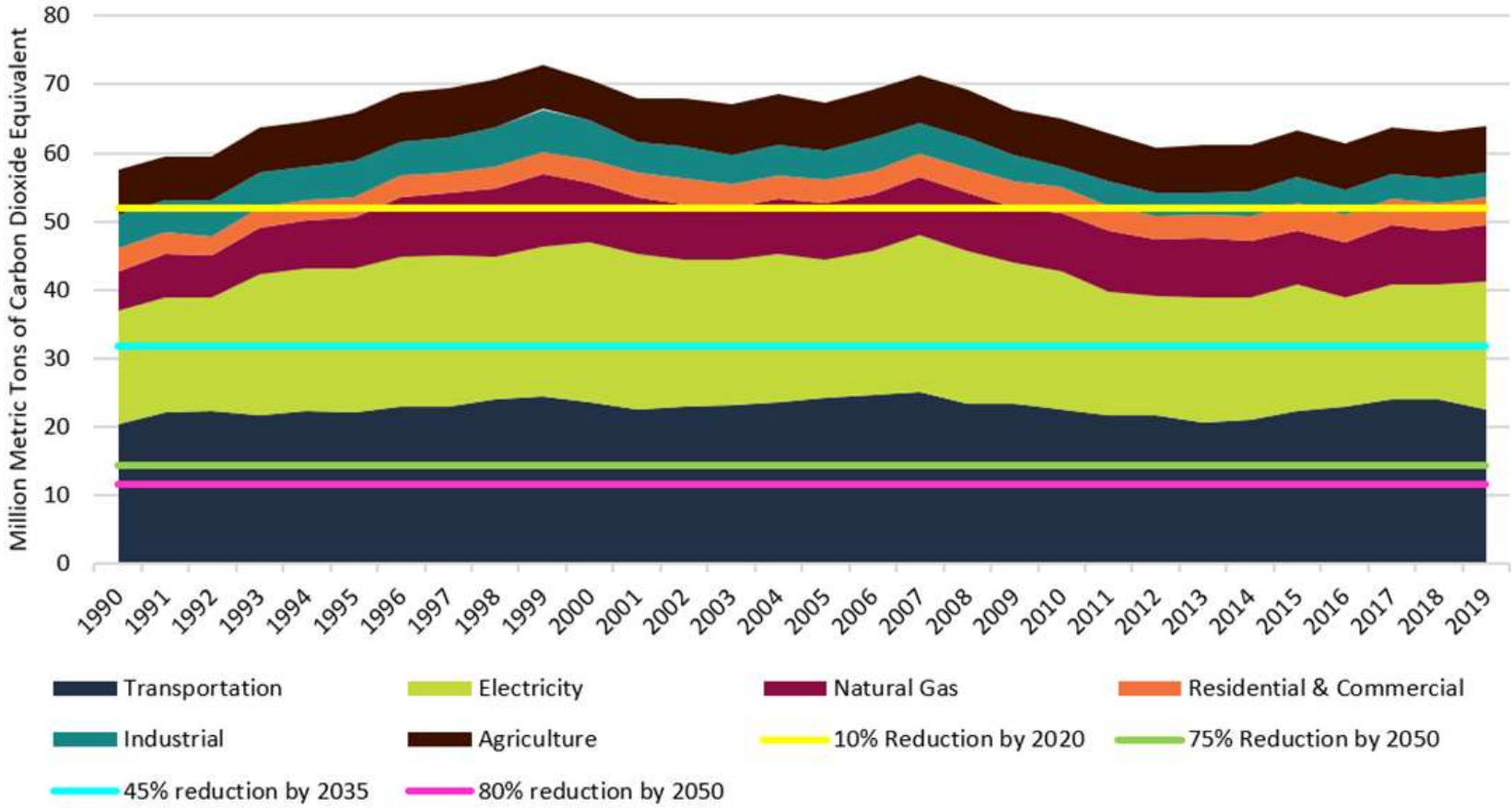
Slide 7

JB0 We might want to take the "Hermiston Energy Project" words off or someone may think we're picking on Hermiston.

BENNER Janine * ODOE, 2023-12-04T13:55:50.474

Oregon Greenhouse Gas Emissions Over Time



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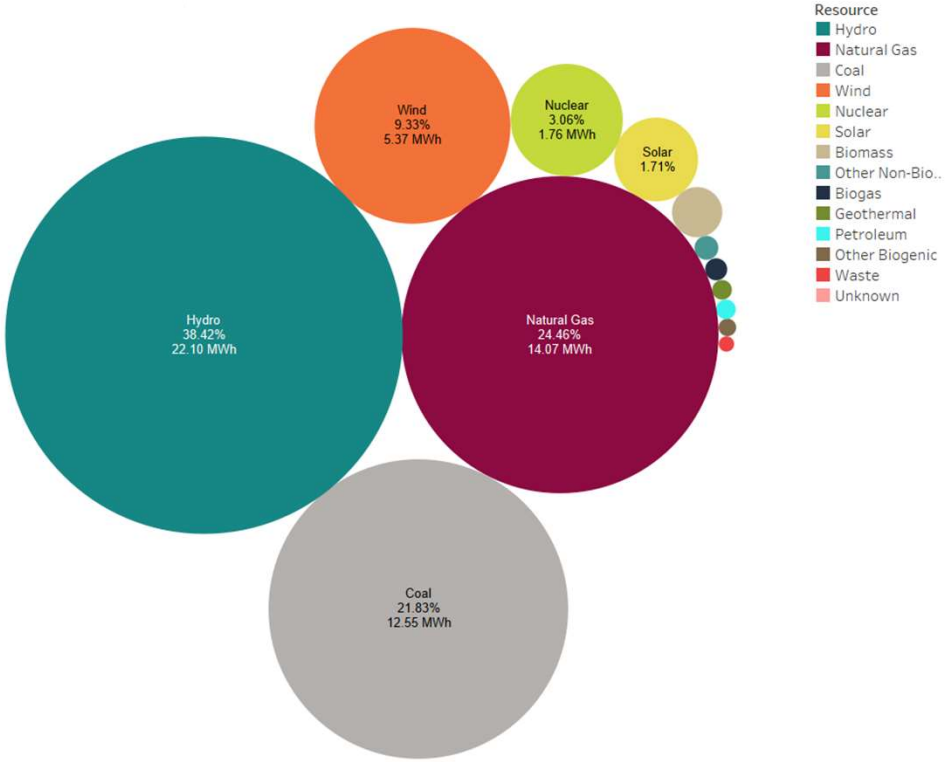
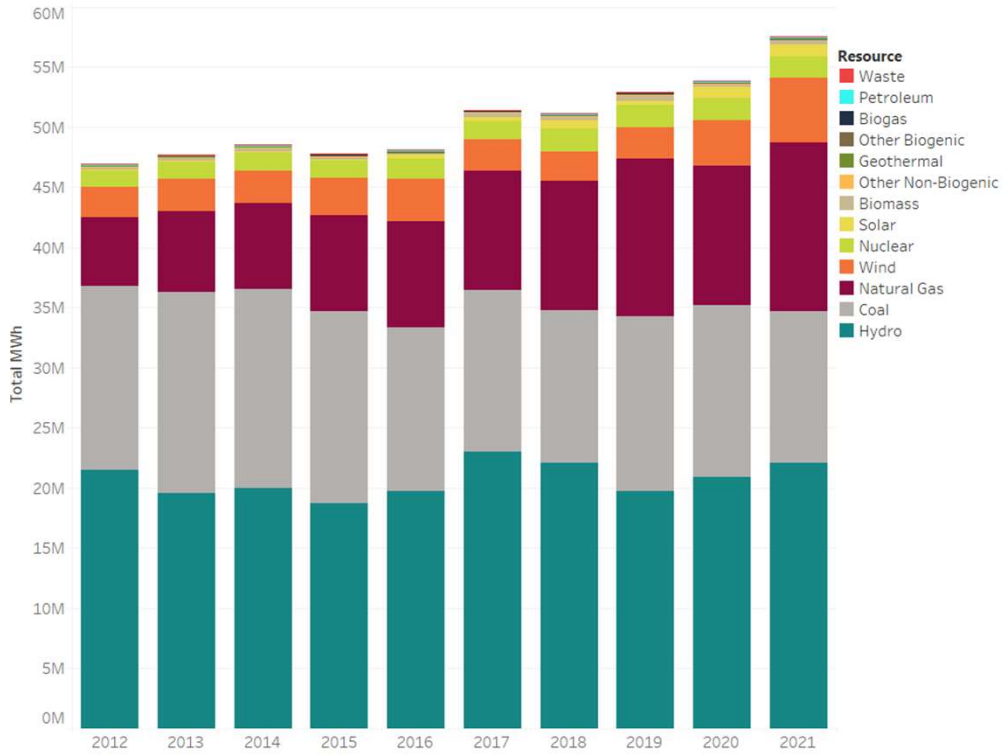
Resources Used to Generate Oregon's Electricity (2021)



Resources Used to Generate Oregon's Electricity Over Time

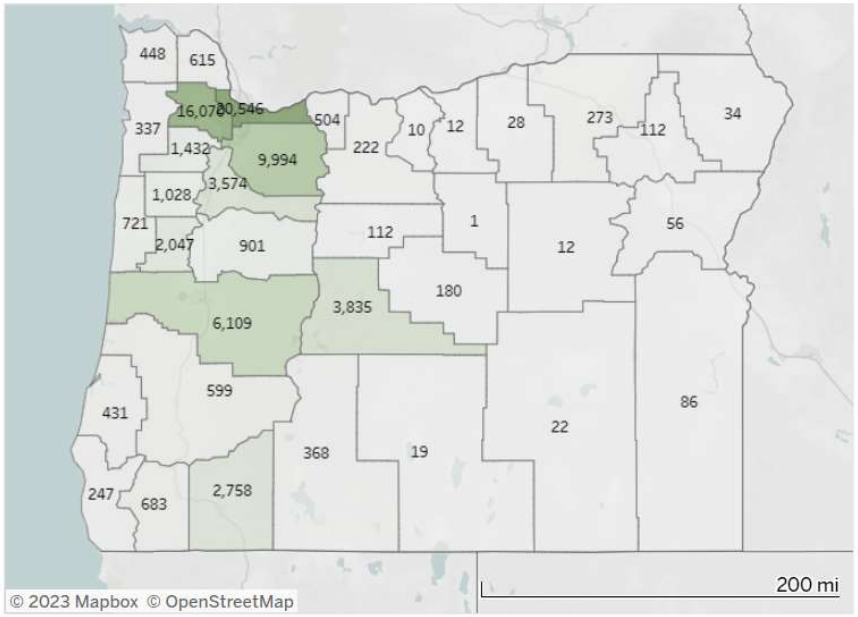


Note: data is preliminary

Oregon Electric Vehicle Dashboard

ZEVs in Oregon | ZEV Registrations | ZEV Charging | Electricity vs. Gas | Glossary | About the Data

ZEVs by County as of July 2023



*Out-of-state vehicles registered in Oregon are excluded from the map and scatter plot.

Census Tract Map | ZIP Code Map | Utility Map

ZEVs by Type as of July 2023

BEV	PHEV
51,355	23,328

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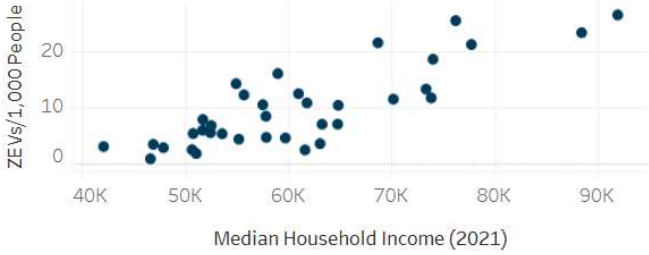
Total ZEVs

74,683

ZEVs/1,000 People vs. Income by County as of July 2023



Scan to check it out!

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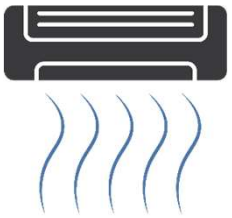
Oregon Solar + Storage Rebate Program

Funds solar and solar with paired storage systems for homeowners and for organizations that serve people with low or moderate incomes.

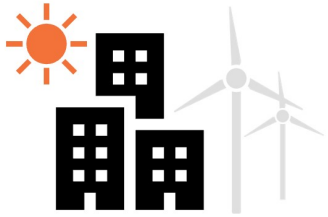
Energy Efficient Wildfire Rebuilding Incentive

Incentivizes energy efficient rebuilding of residential and commercial structures destroyed during the 2020 Labor Day wildfires.



Heat Pump Incentive Programs

Two heat pump programs provide funds for owner-occupied homes as well as rental dwellings and manufactured homes or RVs in rented space.



Community Renewable Energy Grant Program

Provides grants for planning and developing community renewable energy and energy resilience projects.

Oregon Rural & Agricultural Energy Assistance Program

Provides expertise in energy efficiency and renewable energy projects, and helps fun energy audits of rural small businesses and agricultural producers.

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Scan to learn more.

Scope of the Funding under the Inflation Reduction Act

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ODOE's Federal Funding Opportunity Tracker

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IIJA & IRA Tracker - Oregon Department of Energy

Last updated 11-28-2023, Links confirmed 11-7-2023

NAME OF PROGRAM	CATEGORY	PROGRAM MILESTONES	AMOUNT ($millions) FY 2022-2026	DESCRIPTION	ELIGIBLE RECIPIENTS
Advanced Energy Manufacturing and Recycling Grants	Clean Energy and Power	March 14 2023 - Concept Paper; June 8, 2023 - Full Application	$750.0	Offers grants to small and medium-sized	Manufacturing firm—subject to size
Advanced Energy Security Program	Resilience	Funding Opportunity expected 4th quarter of 2022	$50.0	To increase the functional preservation of	Utilities, National Labs, Bulk Power
Advanced Solar Energy Manufacturing Initiative	Clean Energy and Power	Concept papers due September 27 and full applications due	$20.0	To award financial assistance to eligible	Federal, state, and local government,
Advancing Equity Through Workforce Partnerships	Clean Energy and Power	December 6, 2022 - Applications due	$10.0	Funds the development of workforce	States, local governments, Tribes,
Assistance for Local Emergency Response Training (ALERT)	Resilience	May 5, 2023 - Applications close for Assistance for Local	$230.0	The Hazardous Materials and Emergency	States, territories, tribes, counties,
Battery Manufacturing and Recycling Grants	Clean Energy and Power	econd funding opportunity announced ($3.5 billion); Concept	$3,000.0	To provide grants to ensure the US has a	State and local governments, non profits,
Battery Recycling Best Practices	Other	Second funding opportunity announced ($3.5 billion); Concept	$25.0	The Environmental Protection Agency will	
Building Codes Implementation for Efficiency and Resilience	Clean Energy and Power	March 27, 2023 - Final application due; January 31, 2023 - Concept	$230.0	A competitive grant program to enable	States and State Partnerships
Building Resilient Infrastructure and Communities	Resilience	FY 2023 FOA announced, applications due February 29, 2023	$1,000.0	Makes Federal funds available to States, U.S	State/Local
Building Training and Assessment Centers	Clean Energy and Power	Awards for 10 Building Training and Assessment Centers	$10.0	To provide grants to institutions of higher	Institutions of Higher Education
Bus and Bus Facilities Program	Public Transportation	FY 2023 apportionments by state announced and FY 2022	$3,160.0	Provides capital funding to replace,	States, Tribal Governments (federally
Buses and Bus Facilities Competitive Grants	Public Transportation	April 13, 2023 - Applications due	$1,970.0	Provides capital funding to replace,	States, counties, cities/townships, special
Capital Investment Grants (Fixed Guideway)	Public Transportation	TBD	$8 bn (an additional $15 billion is	Discretionary grant program funds transit	States, local governments
Carbon Capture Demonstration Projects Program	Clean Energy and Power	Letters of Intent due March 28, 2023 and full applications due May	$2,540.0	Establishes a carbon capture technology	State and local governments Tribes,
Carbon Capture Large-Scale Pilot Programs	Clean Energy and Power	April 5, 2023 - Concept papers due; June 21, 2023 - Applications	$940.0	To establish a carbon capture technology	State and local governments Tribal
Carbon Dioxide Transportation Infrastructure Finance and Innovation Program	Clean Energy and Power	January 17, 2023 - Comments closed in response to Request for	$2,100.0	To establish and carry out a carbon dioxide	State / Local / Public Authority
Carbon Reduction Program (FHWA)	Roads, bridges and major projects	FY 2023 and 2024 apportionments announced October, 2023.	$6,400.0	Formula grants to States to reduce	States, D.C.
Carbon Storage Technology Operations & Research (CarbonSTORE)	Clean Energy and Power	January 09, 2023 - Request for Information responses due	$0.0	To establish best approaches and options for	
Carbon Storage Validation and Testing	Clean Energy and Power	Second round of awards announced ($444 million), November,	$2,500.0	Establish a program of research,	Technology developers, industry, utilities,
Carbon Utilization Program	Clean Energy and Power	Funding opportunity ($100 million over FYs 2022-2026) announced	$310.0	To establish a grant program for State and	State / Local / Public Utility
Career Skills Training Program	Clean Energy and Power	Funding opportunity for $8.4 million announced: applications due	$100.0	Provides a grant to pay the federal share of	non-Profit Partnerships
Charging and Fueling Infrastructure Grants (Community Charging) - NEVI Competitive	Electric Vehicles, Buses and	Round 7 Alternative Fuel Corridor designations announced,	$1,250.0	Funds available each year for to install	States, territories, tribes, local
Charging and Fueling Infrastructure Grants (Corridor Charging) - NEVI Competitive	Electric Vehicles, Buses and	Round 7 Alternative Fuel Corridor designations announced,	$1,250.0	To deploy electric vehicle charging and	States, territories, local governments,
Clean Hydrogen Electrolysis Program	Clean Energy and Power	April 19, 2023 - Concept Paper due; July 19 2023 - Application d	$1,000.0	To establish a research, development,	Nonprofit and for-profit private entities,
Clean Hydrogen Manufacturing Recycling	Clean Energy and Power	April 19, 2023 - Concept Papers due for DOE's Clean Hydrogen	$500.0	Provides federal assistance to advance new	Nonprofit and for-profit private entities,
Clean School Bus Program	Electric Vehicles, Buses and	FY 2023 funding opportunity for $500 million in rebate funding	$5,000.0	50% of funds are for zero-emission school	States, local governments, eligible
Commercial Direct Air Capture Technology Prize Competition	Clean Energy and Power	Funding Opportunity Announcement expected February 2023	$100.0	Reauthorization of program to support large-	Industry Partner
Cybersecurity For The Energy Sector Research, Development, And Demonstration Program	Resilience	Funding Opportunity Announcement expected February 2023	$250.0	To support development and deployment of	Utilities, National Labs, Manufacturers
Electric Drive Vehicle Battery Recycling And 2nd Life Apps	Electric Vehicles, Buses and	November 16, 2022 - Selections announced	$200.0	For research, development, and	States, local governments, Tribal Nations,
Electric or Low-Emitting Ferry Pilot Program	Public Transportation	FOA ETA April 2023	$250.0	Supports transition of passenger ferries to	States, territories, Tribal governments etc.
Energy Auditor Training Grant Program	Clean Energy and Power	Notice of Intent to issue funding opportunity announced, November	$40.0	To provide grants to eligible States to train	States

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Scan to learn more and download Tracker (Excel):

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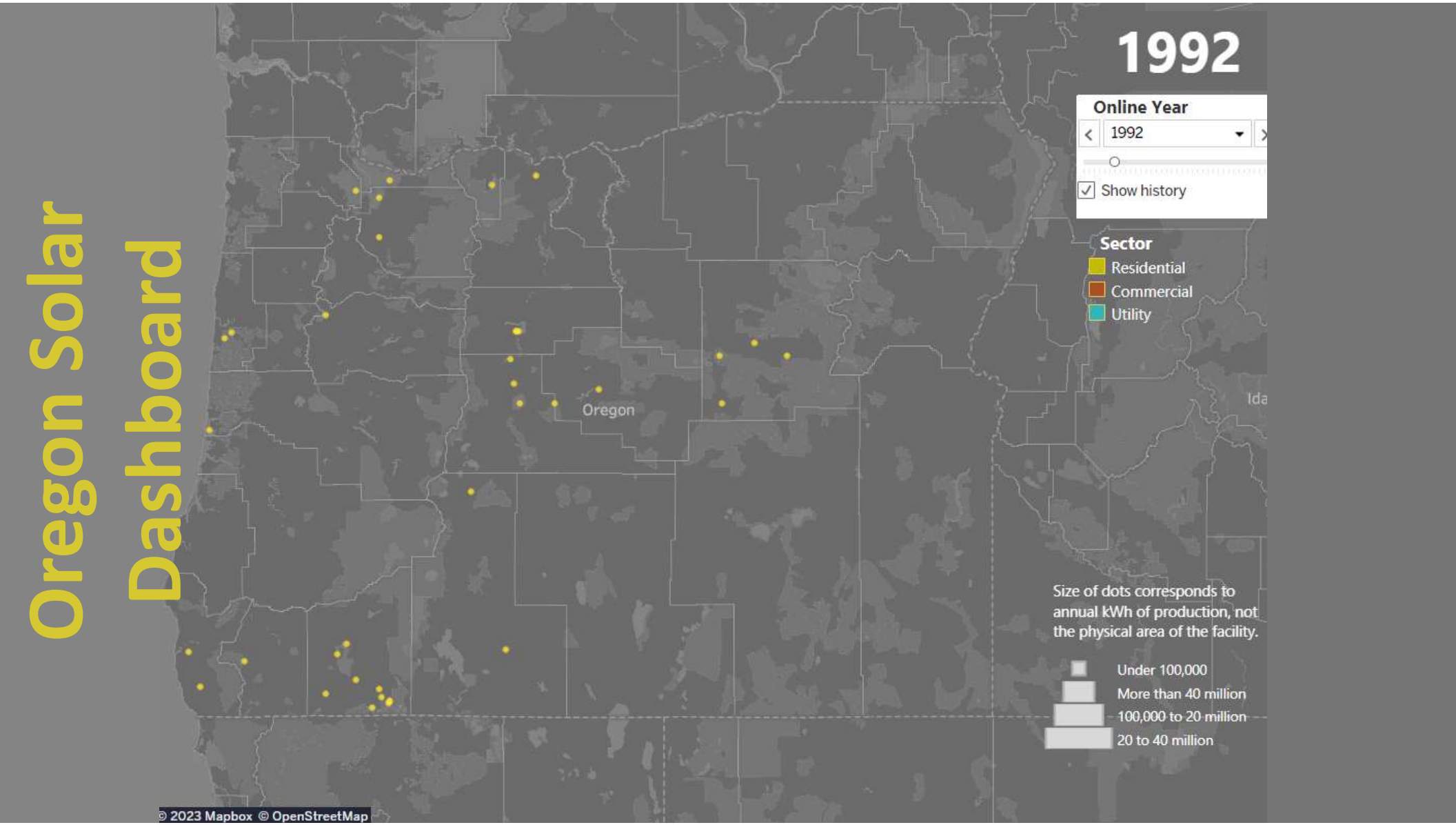
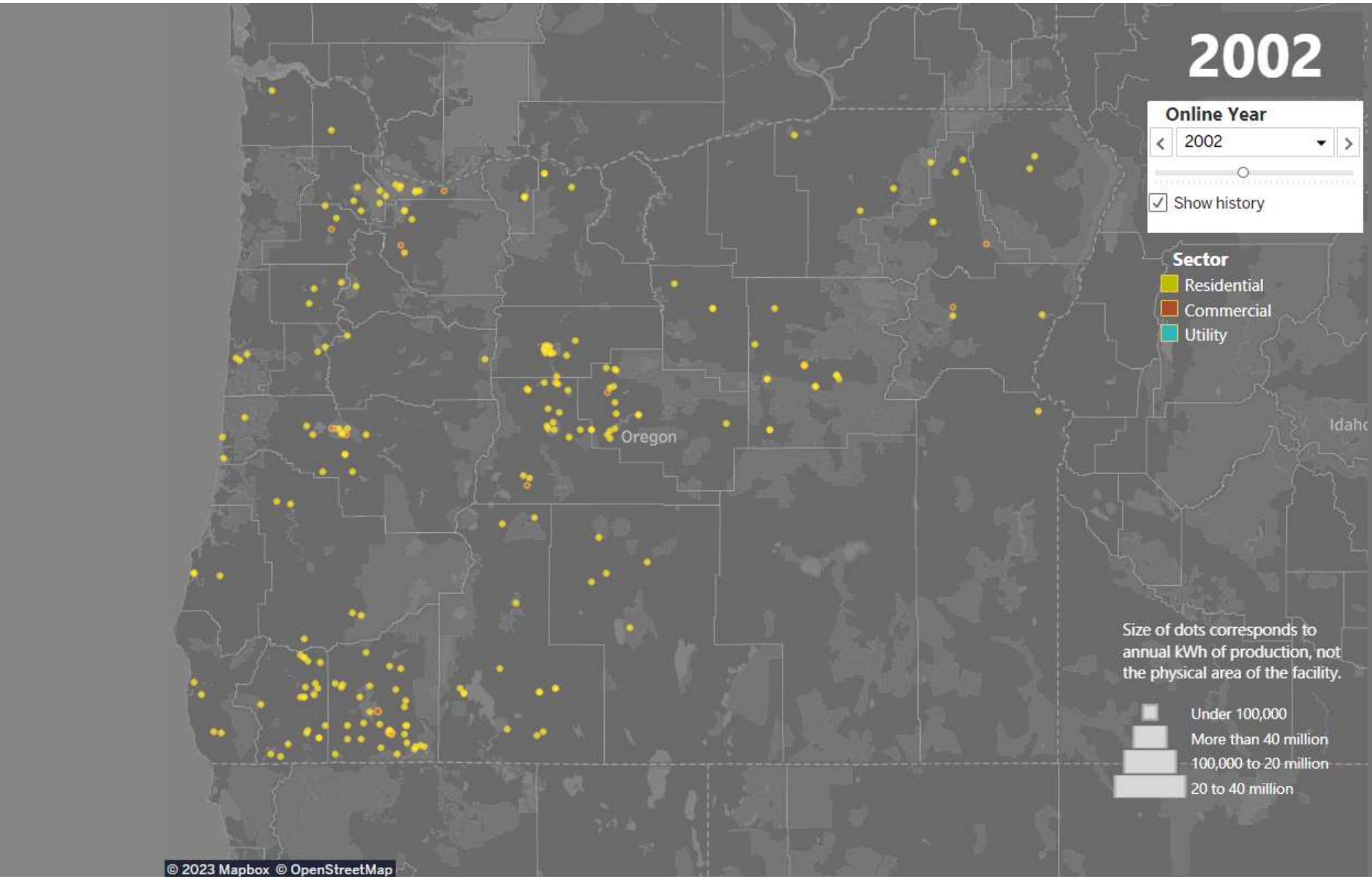
Oregon Solar Dashboard




2002
Online Year
2002
Show history
Sector
Residential
Commercial
Utility
Oregon
Idaho
Size of dots corresponds to annual kWh of production, not the physical area of the facility.
Under 100,000
More than 40 million
100,000 to 20 million
20 to 40 million
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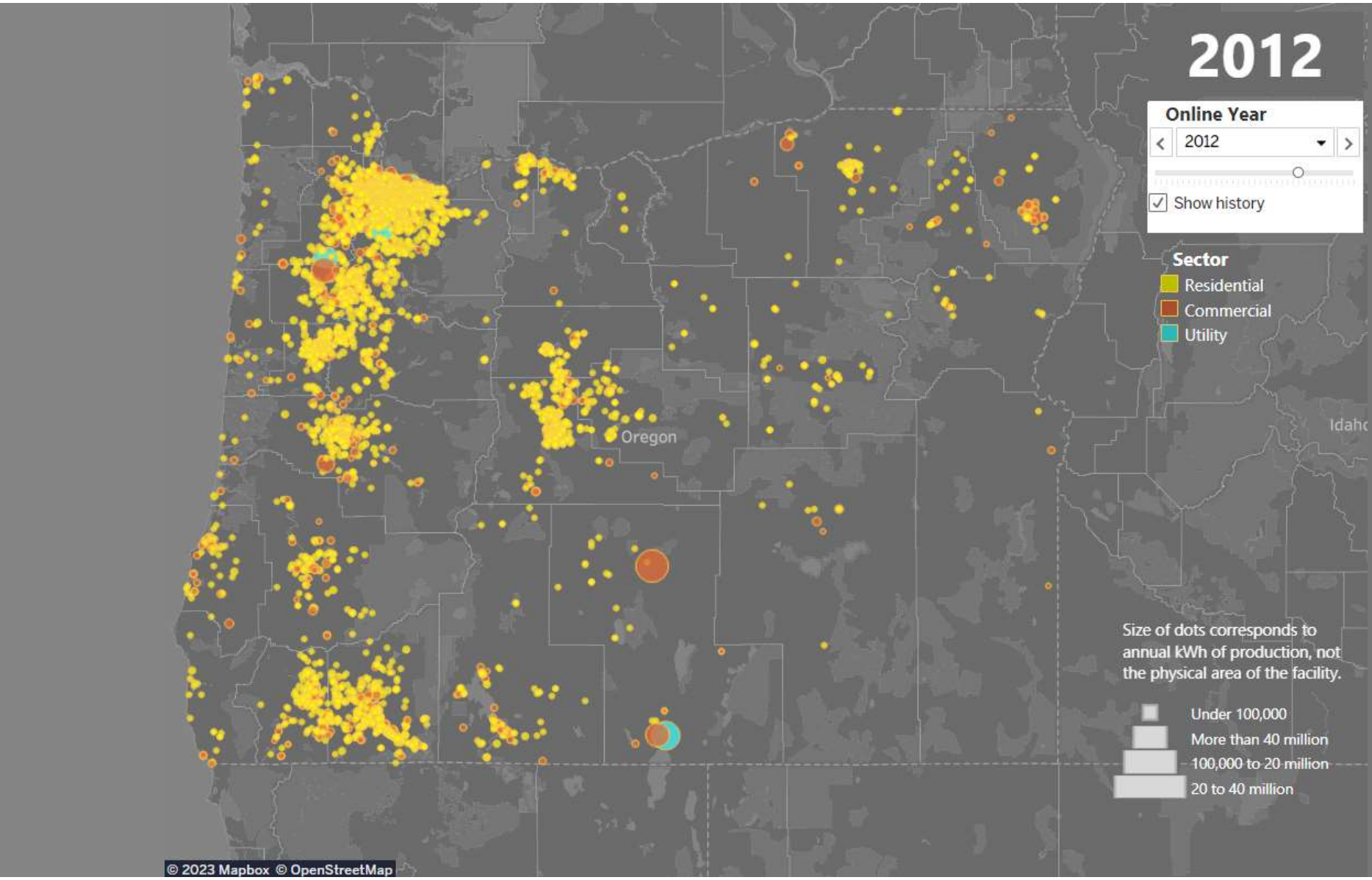
2012
Online Year
2012
Show history
Sector
Residential
Commercial
Utility
Oregon
Idaho
Size of dots corresponds to annual kWh of production, not the physical area of the facility.
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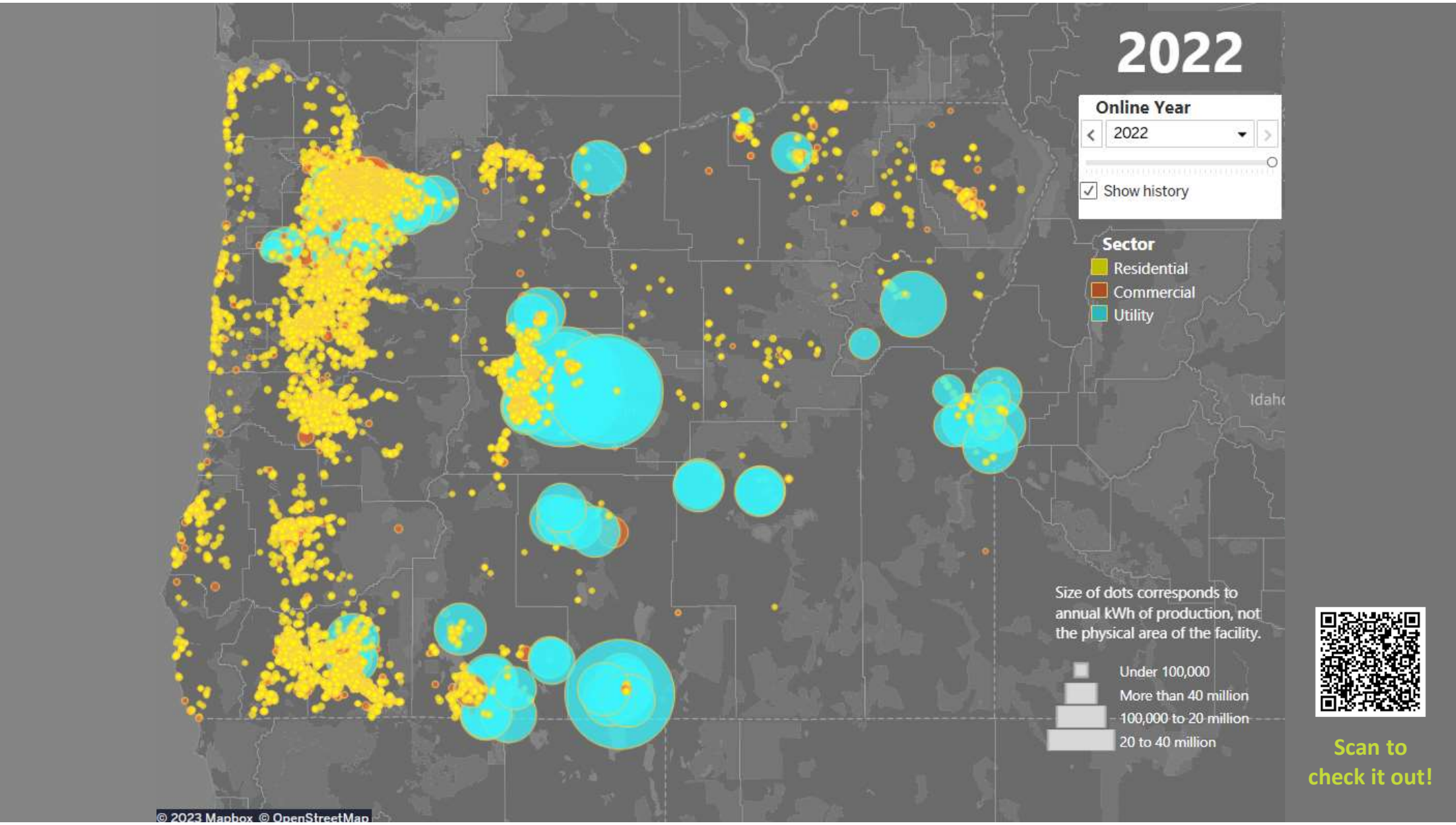
2022
Online Year
2022
Show history
Sector
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Commercial
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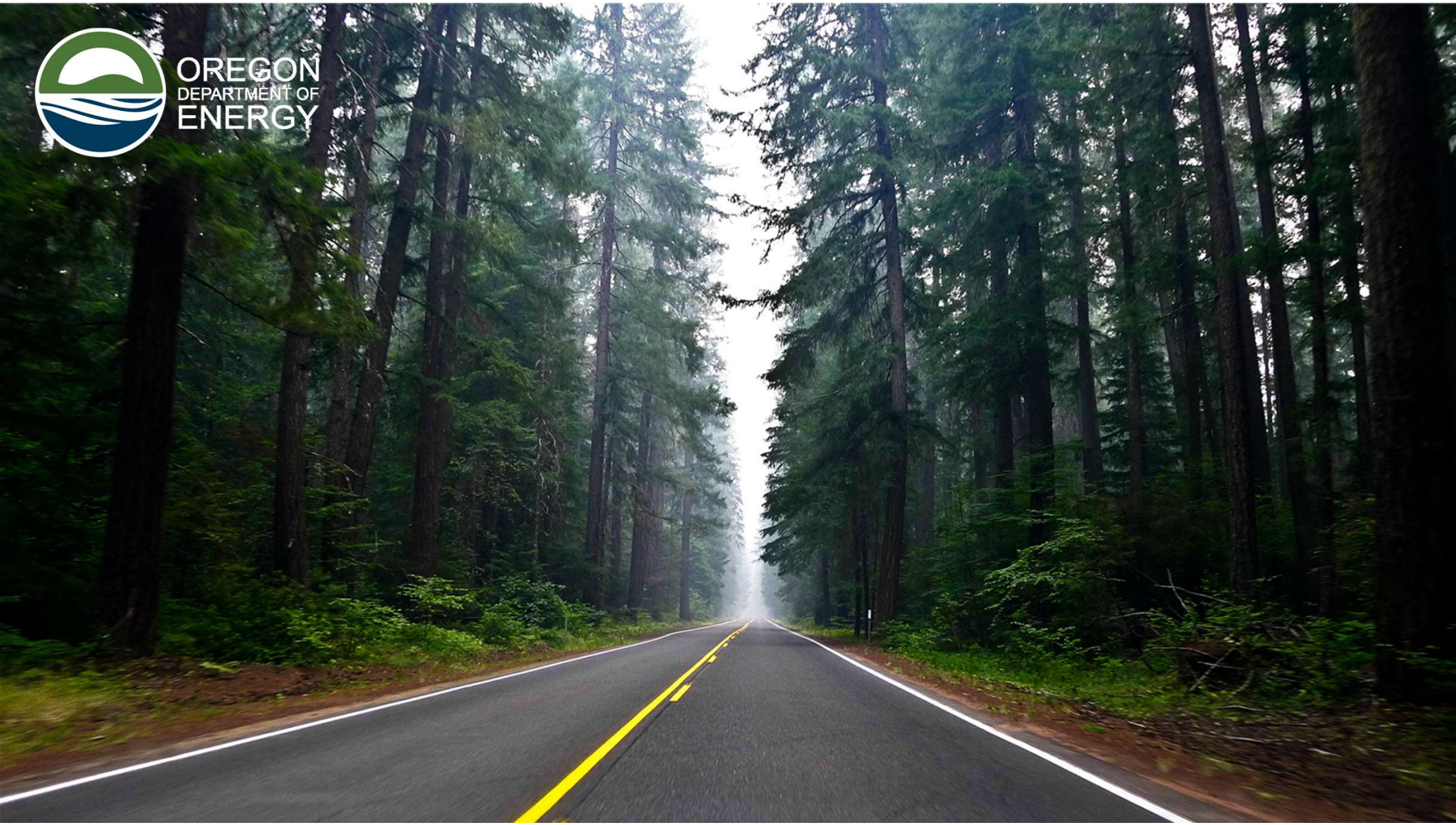
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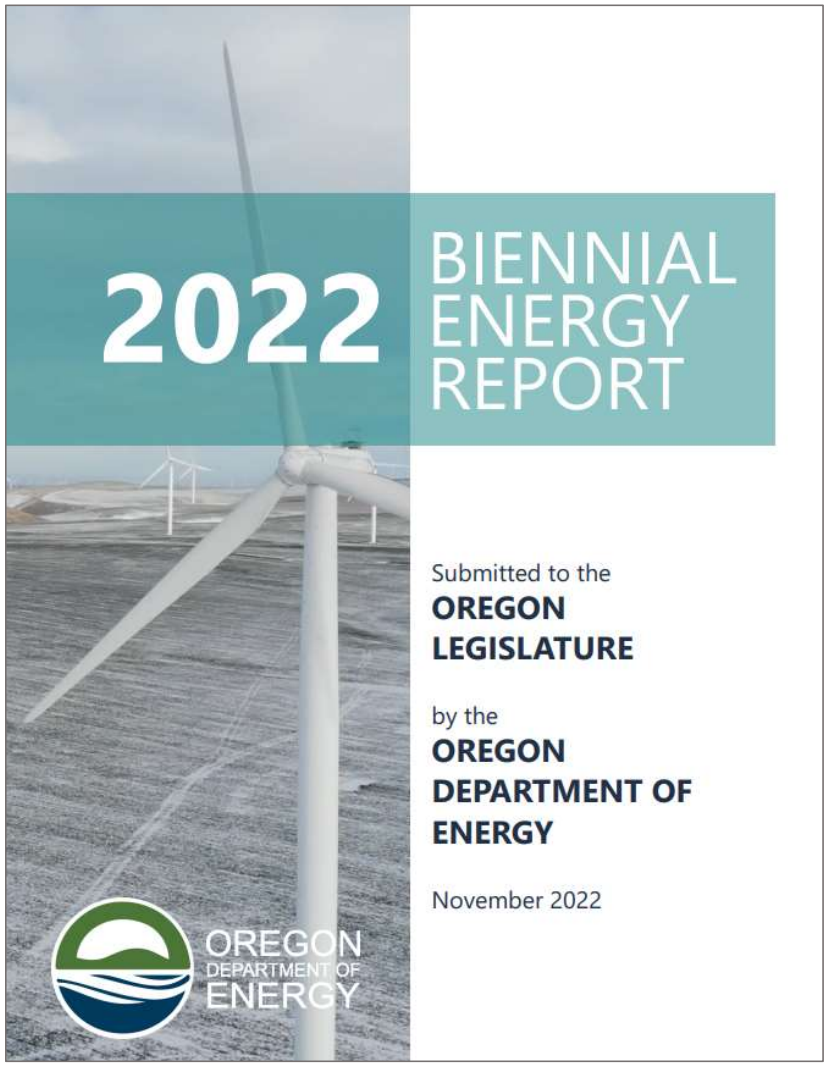
Biennial Energy Report

- Energy by the numbers
- Oregon's energy history
- Resource and technology reviews
- Energy 101s
- Policy Briefs



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Charting a Course for Oregon's Energy Future

Four pillars of decarbonization:

Charting a Course for Oregon's Energy Future

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