

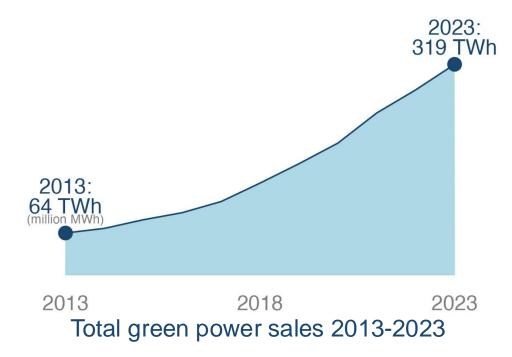
The State of the U.S. Voluntary Green Power Market (2023 Data)

Eric O'Shaughnessy Subcontractor, NREL

Renewable Energy Markets Conference Denver, CO, 9/18/2024 NOTE: This deck has been updated from the version presented on 9/18/2024 to reflect adjusted estimates

The Big Picture

In 2023, about **9.7 million customers** procured about **319 million MWh** of renewable energy through green power markets.



That represents about:

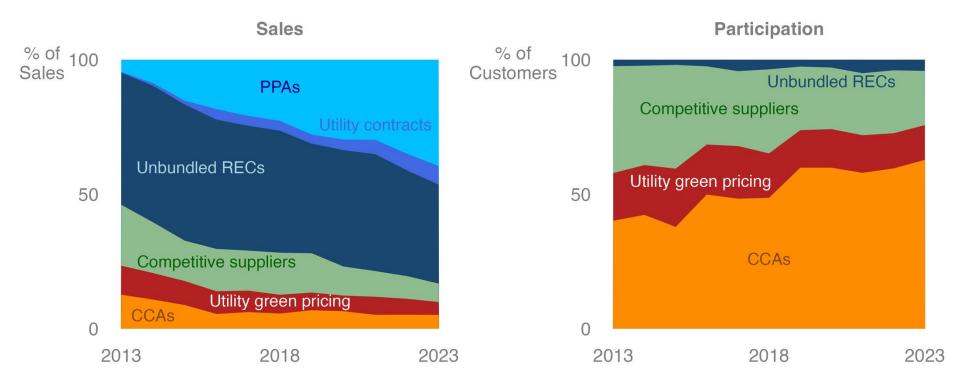
1 in 16 U.S. retail electricity customers

8% of U.S. retail electricity sales

44%

of U.S. non-hydro renewable energy generation

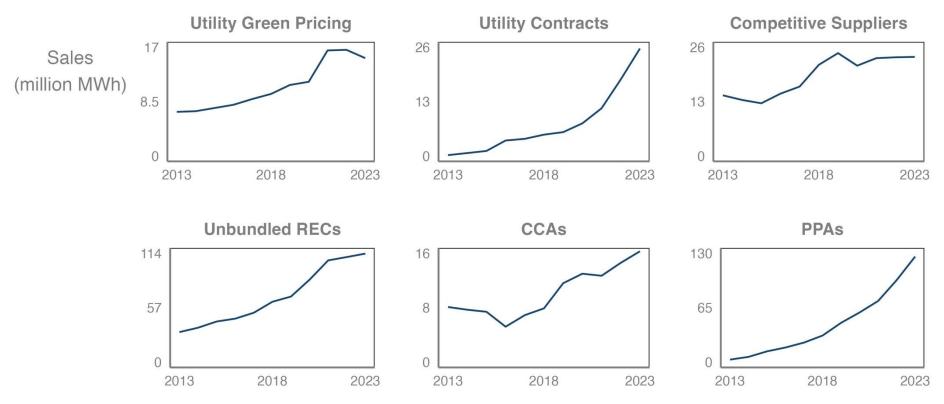
An Evolving Market



Bundling Up



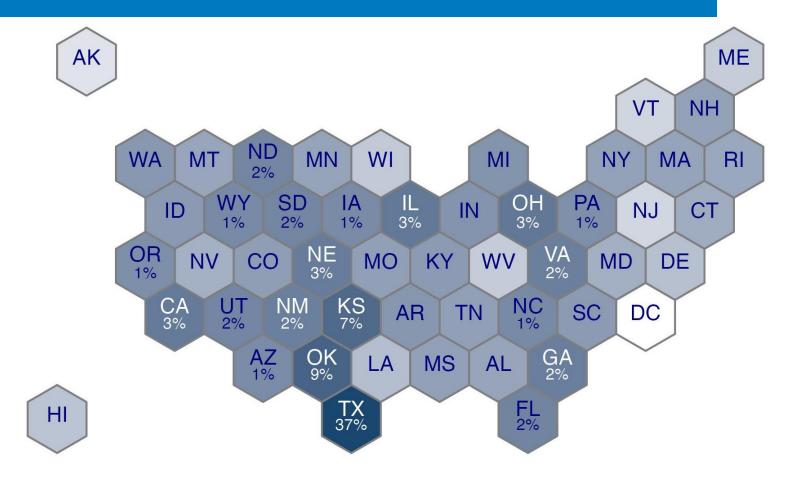
Sales: Ongoing Shift to Long-term Contracts



Participation: CCAs Continue to Expand



Supply is Concentrated in the Wind Belt



Demand is Concentrated in CCA States



Top 10 Program Recognition

Utility green pricing sales

- 1. PacifiCorp
- 2. Portland General Electric
- 3. Xcel Energy

CCA sales

- 1. Clean Power Alliance
- 2. Orange County Power
- 3. Ava Community Energy

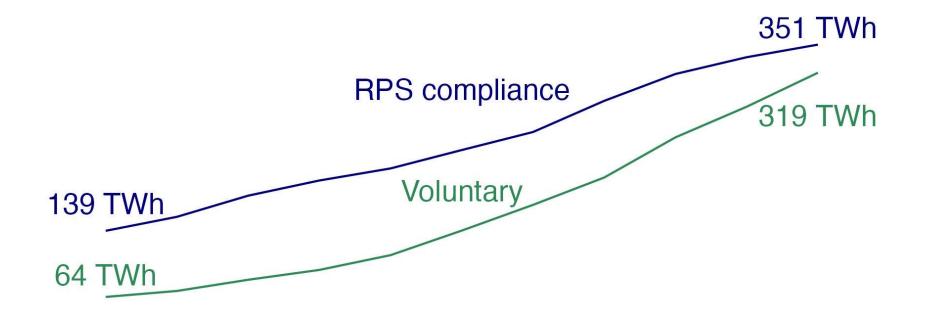
Utility green pricing customers

- 1. Portland General Electric
- 2. PacifiCorp
- 3. Xcel Energy

CCA customers

- 1. San Diego Community Power
- 2. Clean Power Alliance
- 3. Ava Community Energy

Closing the Gap with the Compliance Market





Additional NREL Resources

Find additional resources at the NREL Voluntary Green Power Procurement landing page:

www.nrel.gov/analysis/green-power.html

Eric O'Shaughnessy eric.oshaughnessy@cleankws.com Sushmita Jena sushmita.jena@nrel.gov