

Utility Transformation Challenge

November 2021

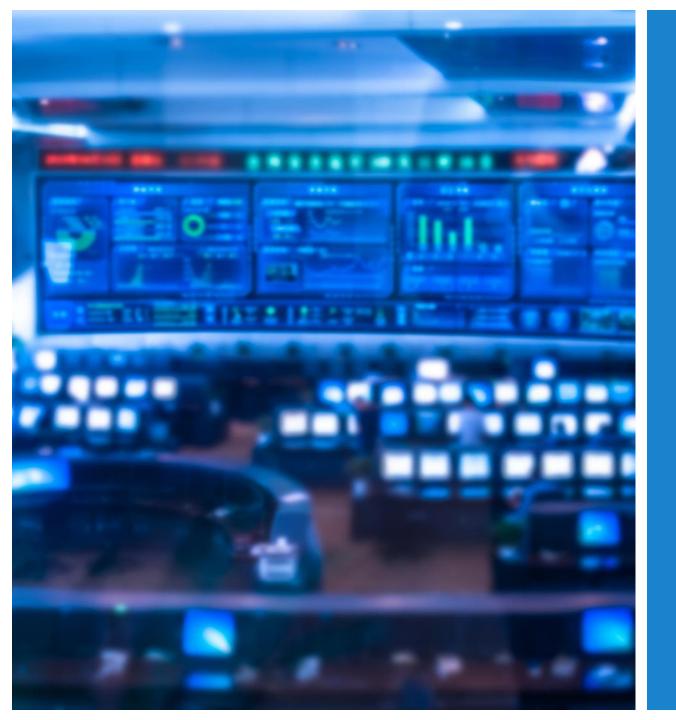






Clean + Modern Grid

Regulatory and Business Innovation | Grid Integration | Electrification



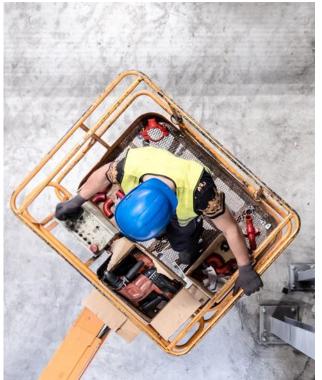


Vision

A carbon-free energy system by 2050

Mission

To facilitate the electric power industry's **smart transition** to a clean and modern energy future.





Who Are We?



A membership organization







Founded in 1992

Staff of ~ 50







Research, Education, **Collaboration & Standards**

Based in Washington, D.C.







Unbiased

No Advocacy – 501c3





Technology Agnostic





>1,160
Total Members

Membership

SEPA is an **alliance** of over 1,160 members made up of utilities, technology solution providers, regulators, and other stakeholders.



74%

of MWh sold



80%

of utilities with carbon-free or net-zero emissions goals

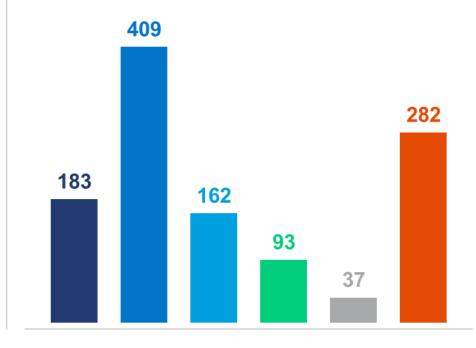


72%

of utility commissions



- Public Power Utilities
- Cooperative Utilities
- Investor Owned Utilities
- Other Utilities
- Corporations





What is the Utility Transformation Challenge?

An honest, comprehensive assessment of U.S. electric utility progress towards a modern, carbon-free system.

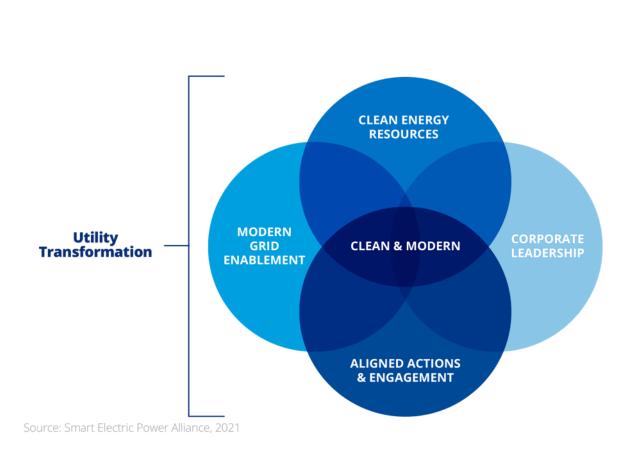
- survey of 130+ utilities
- covering 63% of customer accounts
- addresses multiple dimensions of transformation
- leading utilities identified

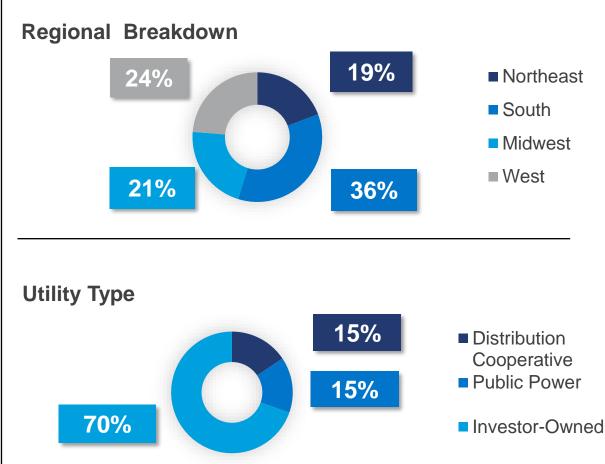


The Analysis



Results are based on a diverse group of utilities across four dimensions of utility transformation.

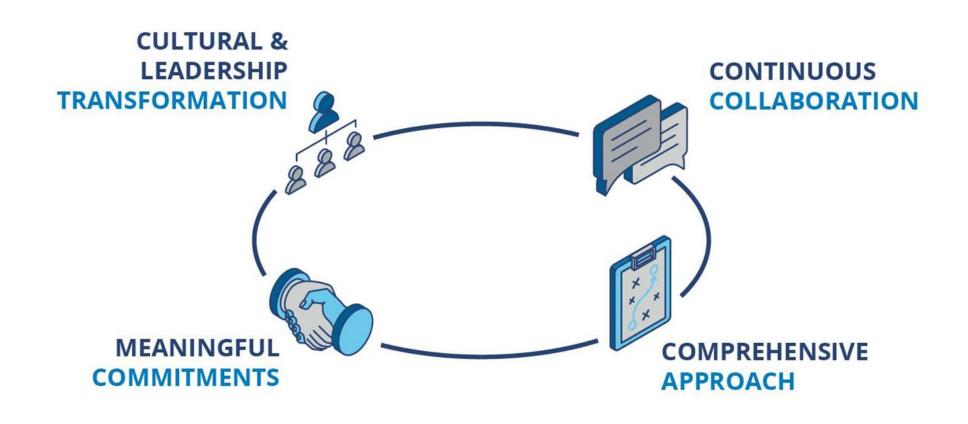




Insights

What We Learned from Our Analysis

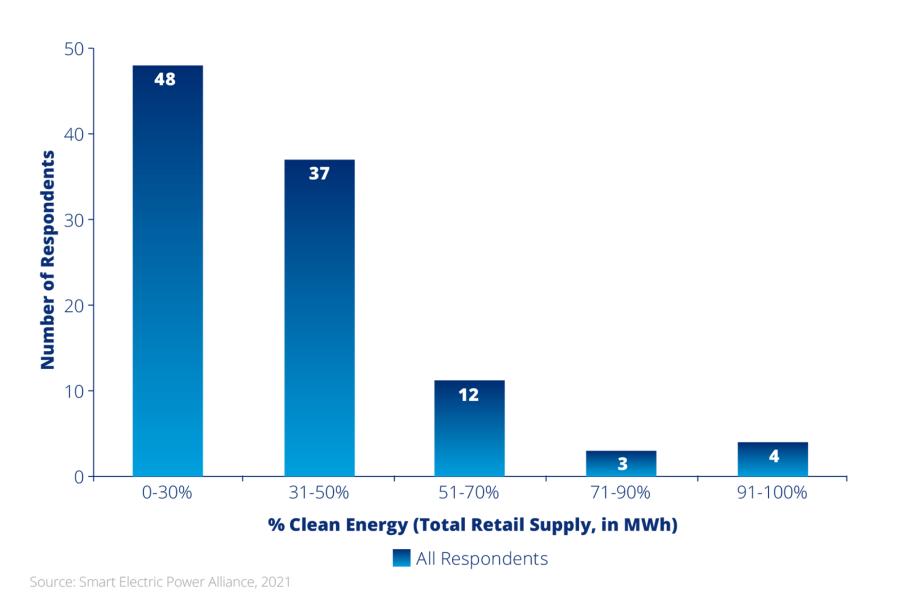




Clean Energy Resources

Progress Made, But Much Work Remains





Leaderboard Utilities





Recommendations





STRENGTHEN CARBON REDUCTION COMMITMENTS

by setting science-based goals backed by detailed plans.



ENGAGE customers, technology partners, peer utilities and regulators early and often.



ADDRESS TRANSFORMATION COMPREHENSIVELY across

the organization.



INTEGRATE EQUITY to

ensure all community members can participate.



EMBRACE CLEAN ENERGY

as a core element of utility mission and culture.

Looking Forward



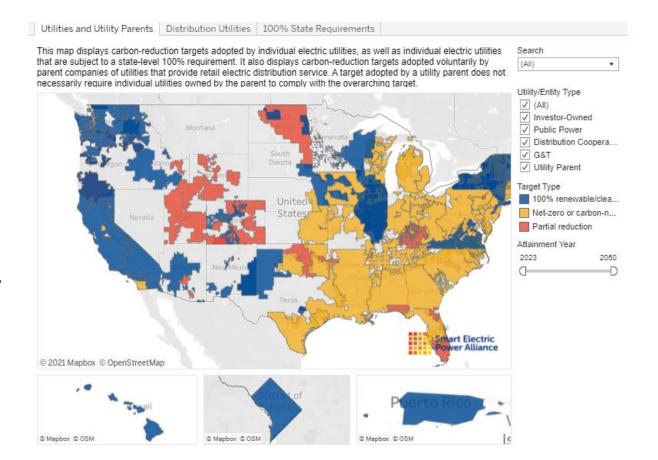
Updates planned for the Utility Transformation Challenge

- Monitoring utility commitments via SEPA's Utility Carbon Reduction Tracker
- Continual review of publicly-available utility decarbonization & clean energy plans
- Determining areas of scope expansion

Focused on providing a platform that enables:

- Insight into best practices, exemplar activities, and biggest gaps
- Utilities to proactively communicate their progress and navigate the "voice" of progress in the industry

Utilities' path to a carbon-free energy system







Utility Carbon-Reduction Tracker

What is the Utility Carbon-Reduction Tracker?



- Living, public resource that aggregates and summarizes electric utility commitments to carbon reduction.
- Interactive tool that allows users to toggle between a selection of characteristics, including:
 - utility type,
 - target type, and
 - attainment year.
- Public dataset of industry commitments, available for download on SEPA's website.

The resource is a compilation of the following target types:

Voluntary carbon-reduction targets adopted by individual electric utilities (including G&Ts)

Voluntary carbon-reduction targets adopted by parent companies of utilities that provide retail electric distribution service.

Mandatory carbon-reduction targets for

individual electric utilities subject to a state-level 100% requirement.

30

Individual utilities have adopted a voluntary 100% carbon-reduction target



Utility parent companies have adopted a voluntary 100% carbon-reduction target



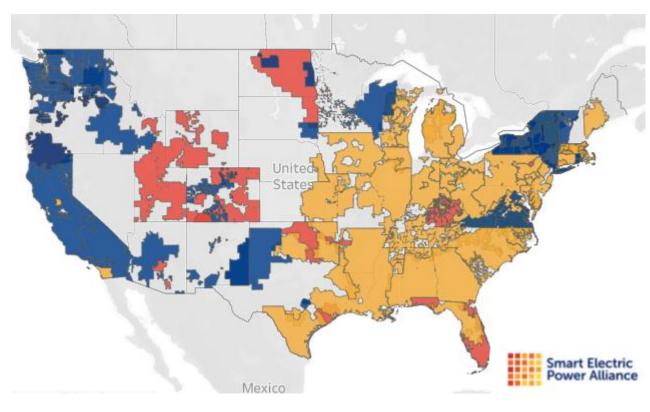


81%

of U.S. customer accounts are served by an individual utility with a carbon-reduction target, or a utility owned by a parent company with a carbon-reduction target goal

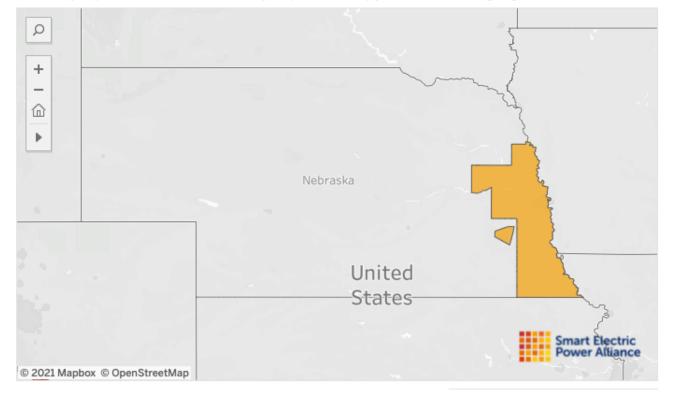


Utility Carbon-Reduction Targets



Nebraska Utilities with Carbon-Reduction Commitments

This map displays carbon-reduction targets adopted by individual electric utilities, as well as individual electric utilities that are subject to a state-level 100% requirement. It also displays carbon-reduction targets adopted voluntarily by parent companies of utilities that provide retail electric distribution service. A target adopted by a utility parent does not necessarily require individual utilities owned by the parent to comply with the overarching target.



Lincoln Electric System

Net-zero CO2 emissions by 2040.

Omaha Public Power District

Net-zero carbon emissions by 2050.

State of Nebraska

~ 49% of metered customers are served by a utility with a carbon-reduction commitment.









Resources

Download the Utility Transformation Profile: sepapower.org/utility-transformation-challenge/profile/

SEPA's Utility Carbon Reduction Tracker: sepapower.org/utility-transformation-challenge/utility-carbon-reduction-tracker/

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