



Oklahoma
Sustainability
Network

economy,
ecology,
equity



SPEER Policy + Industry Workshop September 2022

Montelle Clark -
OSN Energy Policy Director

What is OSN?

- Policy organization
- Established 1999
- Registered 501(c)(3)
- Managed by volunteers
- <http://oksustainability.org>

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- Actively engaged at the Oklahoma Corporation Commission
- Rulemakings, DSM applications, Rate Cases, Integrated Resource Planning, etc.

"Grid Resiliency: efficiency & DERs"

Innovative DSM projects and measures for 2022-2024
from Oklahoma's two major electric utilities, PSO and
OG&E.

Innovative DSM Projects

In addition to the familiar and proven (and important!) slate of DSM programs and incentives for Home Weatherization, New Home Construction, energy saving products, business equipment, and Demand Response, both utilities are working on innovative R&D measures that could open up new opportunities for energy savings, especially as they move beyond lighting measures.

- *Oklahoma's DSM rules allow 5% of program budgets to be spent on Research & Development projects.*

Examples from PSO

- **Battery Storage Pilot** (residential and small commercial, behind the meter)
- **Connected Water Heater Pilot** - To defer the heating of water to a time of day or night when system demand is low.
- **Community Demonstration Project** - To research and field-test *shared* ground-source heat pumps for all-electric homes with solar panels and battery storage.
- **Zero-Net Energy Homes** - Upstream rebates to promote and support construction of zero-net-energy or zero-energy-ready homes.

Examples from PSO

- **Non-Wires Solution pilot** - To delay the need for T&D investment in a localized area. Initial results saved over 360 kW by completing 154 projects for residential, small business, commercial, and public school customers.
- *Most importantly, the project was cost-effective compared to upgrading the distribution system.*

Examples from OG&E

Innovation in an established DSM program:

- The **New Home Construction program** will now utilize a three-tiered qualification system (Bronze, Silver, and Gold) based on HERS rating. Improvements in HERS rating will move a home into a higher tier which will offer a higher inducement.

Examples from OG&E

Innovations from the R&D program:

- Utility-Scale Battery Pilot

- **Goal:** Prove the ability of batteries and control systems to offset demand from Fast Charge (Level 3) EV charging stations. Provide support for fast charging stations on highway corridors or at commercial fleet charging facilities.
- Also will develop environmentally targeted battery charging algorithms to store renewable energy during the charging cycles, thus being able to dispatch a higher content of renewable energy to fuel electric vehicles.

Examples from OG&E

Innovations from the R&D program:

- **LMI Weatherization Enhancement Pilot** - To help underserved and hard to reach customers by offering minor repairs to their homes, plus HVAC tune-ups/replacements.
- **School Renewable Technology Pilot** - To assess the value of rooftop solar with batteries, an Agri-voltaic system with batteries, and a comparison with OG&E's utility-scale solar with batteries. Curriculum materials will be developed for students to learn about renewable energy.

Examples from OG&E

Innovations from the R&D program:

- **Managed/Controlled Flexible Load Electric Device Technology Pilot** - To test the capabilities of applying smart controls for equipment like water heaters, pool pumps, well pumps, dishwashers, and EV chargers.

Electric Vehicles

New EV Tariffs from PSO

- In February PSO launched new EV Time-of-Use tariffs for Residential, Commercial, and Fleets.
 - Residential rate: \$0.025 (2.5 cents) per kWh off peak!
 - Compare THAT with the price of gasoline.
 - Commercial & Fleets rate: \$0.036-0.039 / kWh off peak, with no Demand charge.

Electric Vehicles

OG&E RATE CASE

- Final Order approved on September 8th.
- **OSN** was a party in the case and we recommended two EV items, both of which were approved in the Settlement Agreement:
 - Within 9 months, OG&E will develop Time-of-Use **EV tariffs** for general service, fleet, and public school customers.
 - Within 6 months, OG&E will develop a comprehensive **Transportation Electrification Plan**.

Electric Vehicles

➤ OG&E Transportation Electrification Plan

*"to be provided for review and input by interested parties. The TEP is to address plans for programs that reach a wide range of customer groups such as **Single-family housing, Multifamily housing, Fleet Charging, Municipal Transit Charging Infrastructure, Workplace Charging, Electric School Buses, and Off-road Pilot projects**, along with customer education and marketing needs."*

Electric Vehicles

- **Oklahoma's NEVI Plan**
(National Electric Vehicle Infrastructure Program)
- Approved by the federal administration on September 14th.
- *Goal: Ensure that 90% of Oklahoma residents live within 25 miles of NEVI Compliant Chargers.*
- **OSN** identified as one of the plan's Community Based Organizations for input on annual plan updates.

Thank You

Montelle Clark

Oklahoma Sustainability Network

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ADVOCACY SESSION

Advocacy Priorities

PUCT EE Programs

- EEIP Efforts
- Market Redesign

Legislative Priorities

- EERS Goal Improved Performance
- Equity
- Updated Building Codes
- Demand Response Residential Incentives
- Transmission Buildout
- Climate Action