



THE POWER OF PEOPLE



# Review of Strategic Directive BP-SD-10, Electrification of the Economy

NPPD Board of Directors Meeting  
Strategic Session  
May 2025

David Rich, Sustainable Energy Manager



Nebraska Public Power District  
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# BP-SD-10, Electrification of the Economy

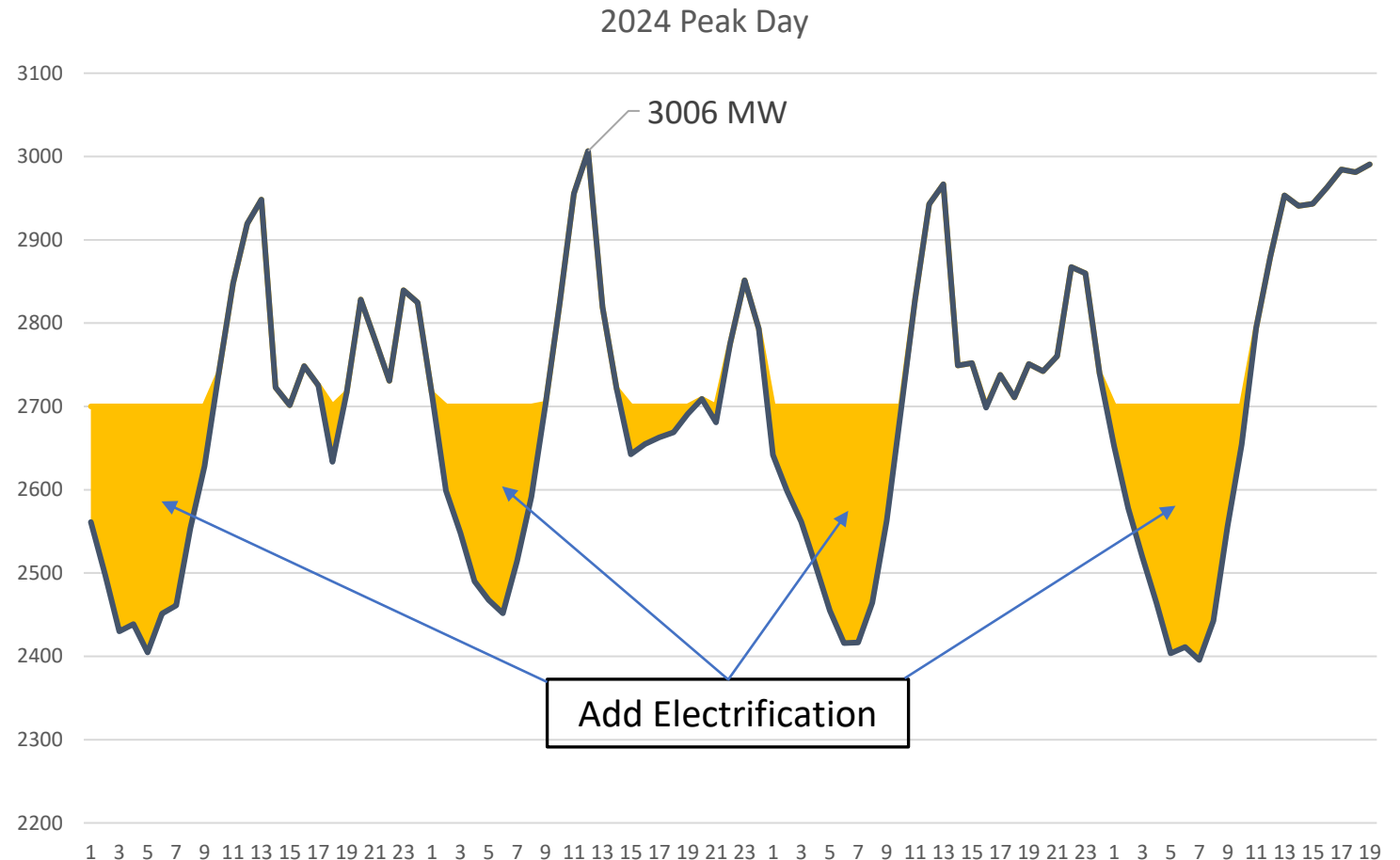
Nebraska Public Power District (NPPD) is committed to:

- Reduce the customers total energy cost
- Reduce greenhouse gas emissions
- Strategically add load that utilizes existing grid and generation
- Being a resource for technical information for our wholesale customers
- Provide a service that engages customers in a positive way
- Taking advantage of state and federal incentives, grants, and other opportunities

# Transportation Electrification Goals

- **Overnight Charging Preferred**

- ✓ Adds Load off peak
- ✓ Keeps rates low
- ✓ Time of Use Rates (TOU) can be designed to promote the usage on these off-peak periods



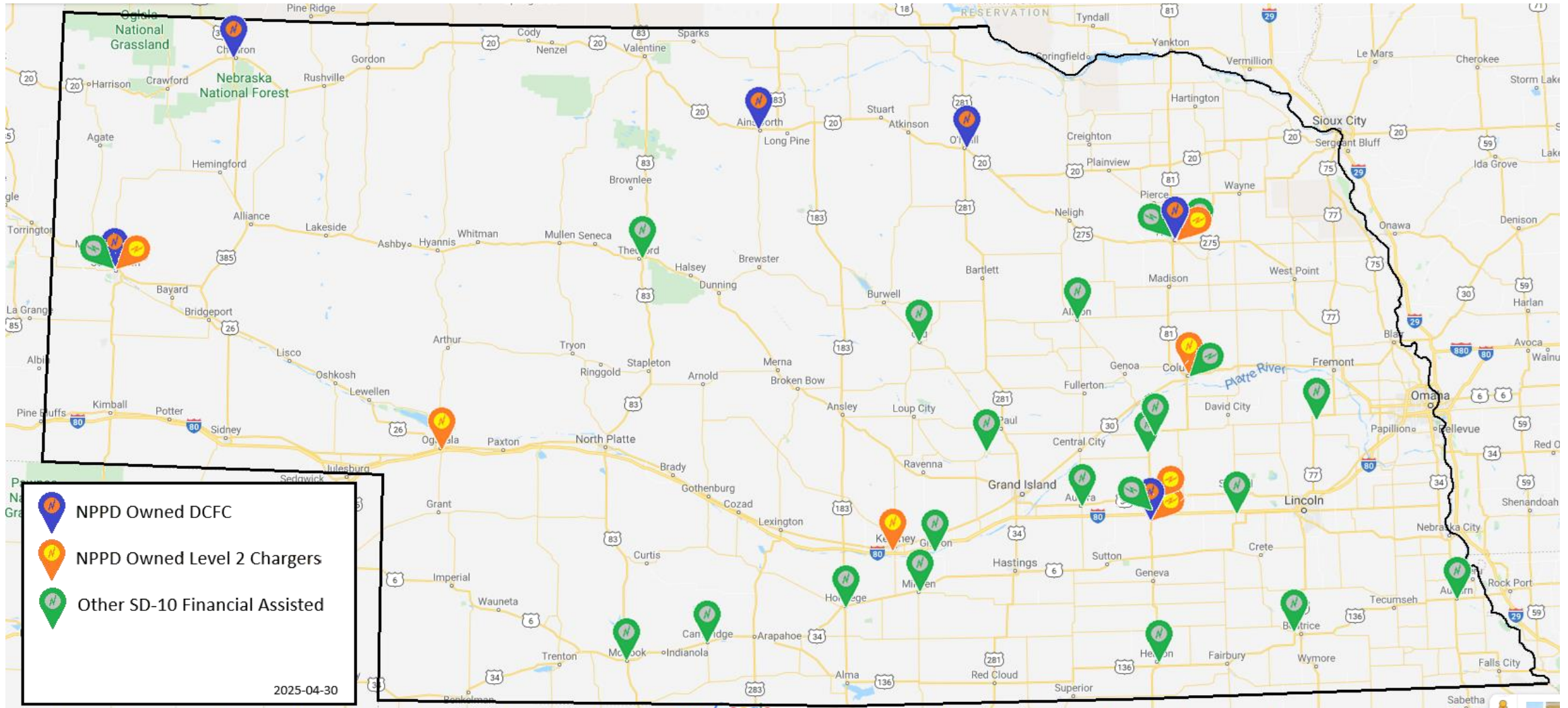
NPPD graph

# Electric Vehicle Charging Levels

	AC Charging Home, Fleet and Public Use	DC Fast Charging Public and Large Fleet Use
Type	Level 2	Level 3
Power	208V or 240V 1 ph 3 kW to 19.2 kW 12 to 80 amps	480V 3 ph 50 kW to 350kW 60 to 500 amps
Charge Time (Miles of range per hour of charge)	6.6 kW – 20 to 25 miles 9.6 kW – 40 to 45 miles 19.2 kW – up to 60 miles	50 kW – up to 150 miles 100 kW – up to 300 miles 350 kW – up to 260 in less than 30 minutes
Cost and complexity tends to increase the faster the charging level.		

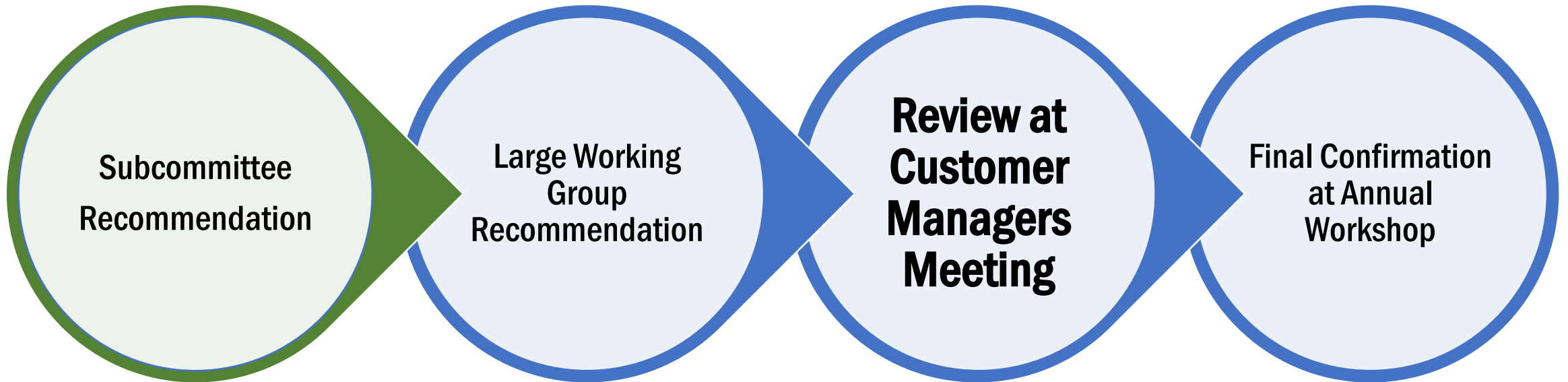


# NPPD Electrification Assisted Charging Stations



# Working Group Process Flow

## Wholesale Customer Driven Incentives



# EnergyWise<sup>SM</sup> Programs: Electrification

## Residential

- Level 2 Charging Stations
- Pre-Wiring for Charging Stations
- Lawn & Garden
- Induction Cooking



## Commercial / Industrial

- Charging Stations
  - Level 2
  - DC Fast Charger (DCFC)
- Pre-Wiring for Chargers



## Wholesale Customers

- Battery Electric Vehicles (EVs) for Check Out
- EV Advertising and Promotional Events

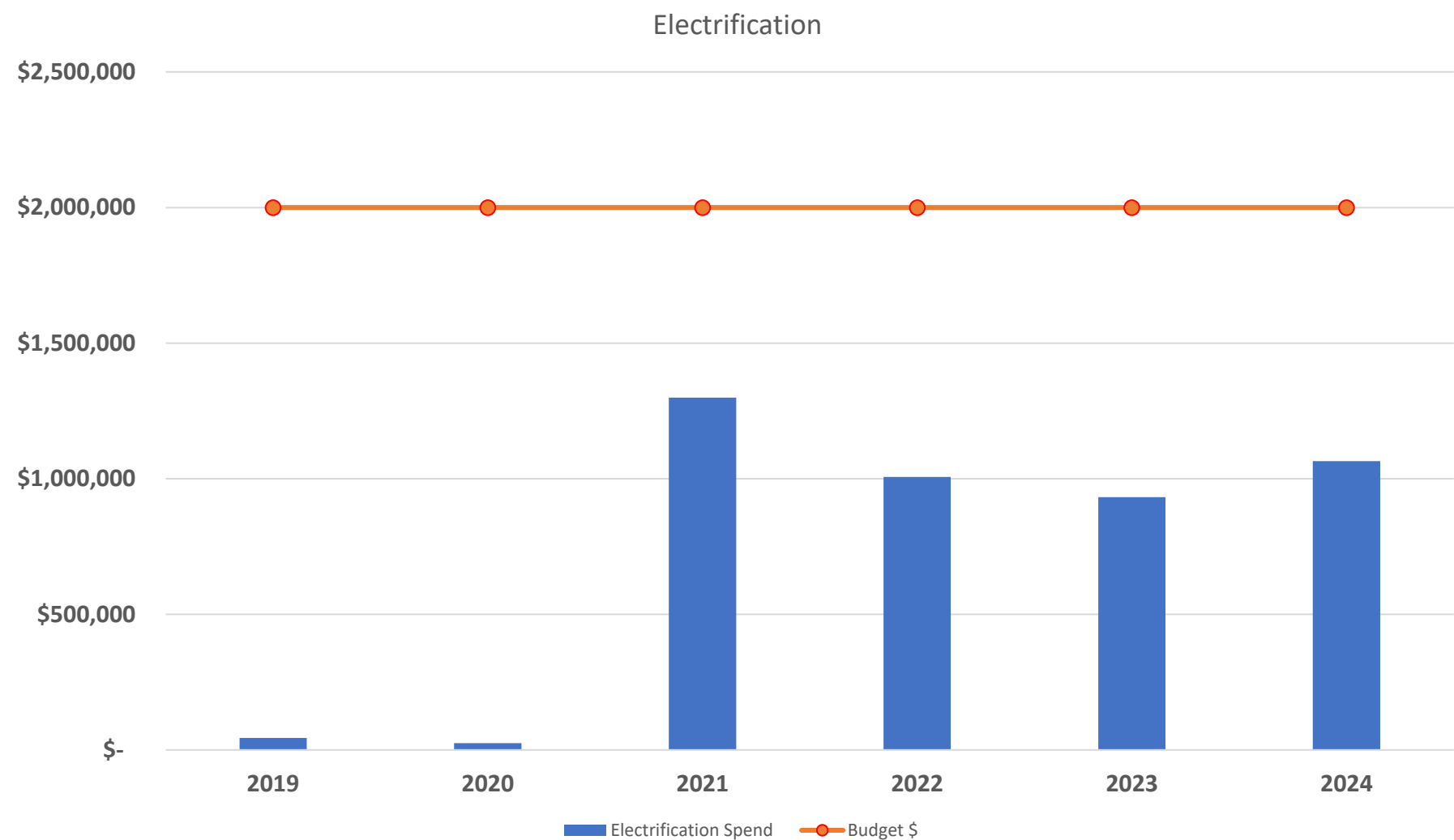
**ENERGYWISE**<sup>SM</sup>  
Use less. Spend less. Do more.

[www.EnergyWiseNebraska.com](http://www.EnergyWiseNebraska.com)



# BP-SD-10 Electrification Spend by Year

Includes Capital and O&M





# BP-SD-10 Electrification 2024 Investment

BP-SD-10-Electrification	Count	\$
Residential ChargePoint Charging Station	74	\$ 37,000
Residential Charging Station Pre-Wiring	141	\$ 71,864
Utility/Non-Profit Owned Charger	0	\$ 235,554
Commercial Charger and Conduit	10	\$ 331,072
Induction Cooktop	78	\$ 35,718
Electric Mowers	444	\$ 122,722
Other Lawn and Garden**	369	\$ 45,001
Wholesale Customer Advertising	77	\$ 10,773
<b>Totals</b>	<b>1193</b>	<b>\$ 889,704</b>

\*\* Chainsaws, Tillers, and Snowblowers

# National Electric Vehicle Infrastructure (NEVI)

- **Federal Plan from 2021 Bipartisan Infrastructure Law (BIL)**
  - \$7.5 Billion to expand Electric Vehicle Charging Infrastructure
  - Nebraska: \$6 Million per year for 5 years
  - 20% matching funds for host site/owner, 80% by NEVI program
  - Requirements
    - 4 DCFC stations each capable of 150 kW charging
    - Within 50 Miles of next stations
- **Nebraska Plan**
  - Nebraska targeted locations along essential corridors (I-80 & highway 6 in Omaha)
    - Retail: Big Springs, Kearney, York
    - Wholesale: Gothenburg
    - Others: Kimball, Sidney, Omaha
  - NPPD will not incentivize NEVI chargers (starting July 1, 2024)
- **Program placed on hold Feb. 6, 2025, for updated federal guidance**

# 2025-2026 Program Changes

- Potential 2025-2026 EV Charging Updates
  - Discuss existing charging station data plan
  - Reduce commercial DCFC incentives
  - Focus on level 2 charging
  - Focus on commercial conduit (make ready)
  - Focus on residential pre-wiring (make ready)



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## Questions

Stay connected with us.



**Nebraska Public Power District**

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# Backup Slide

# NPPD Fleet Electrification

- Five Chevy Silverado EVs in Fleet
- One Chevy Bolt EUV in Fleet
- Fleet Charging Stations installed:
  - Columbus General Office
  - Norfolk Operation Center
  - York Operation Center
  - Cozad Office
  - North Platte Office
  - Paxton Office