

Review of

Strategic Directive BP-SD-10

Electrification of the Economy



NPPD Board of Directors Meeting Strategic Session May 2024

David Rich, Sustainable Energy Manager



BP-SD-10, Electrification of the Economy

Nebraska Public Power District (NPPD) is committed to:

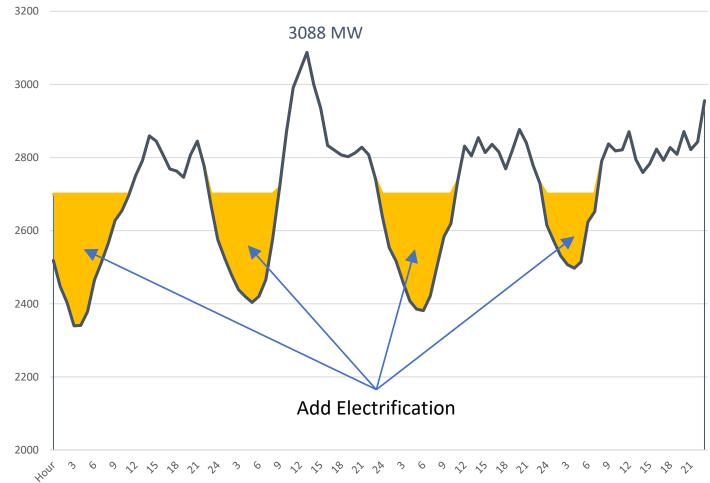
- Reduce the customers total energy cost
- Reduce greenhouse gas emissions
- Strategically add load that utilizes existing grid and generation
- Being a resource for technical information for our wholesale customers
- Provide a service that engages customers in a positive way
- Taking advantage of state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





Electric Vehicle Charging Levels

	AC Charging Home, Fleet and Public Use	DC Fast Charging Public and Large Fleet Use		
Туре	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		

EnergyWiseSM Programs: Electrification

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



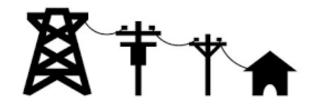
www.EnergyWiseNebraska.com



- Level 2
- DC Fast Charger (DCFC)
- Pre-Wiring for Chargers
- July 1, 2024: reducing commercial incentives

Wholesale Customers

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

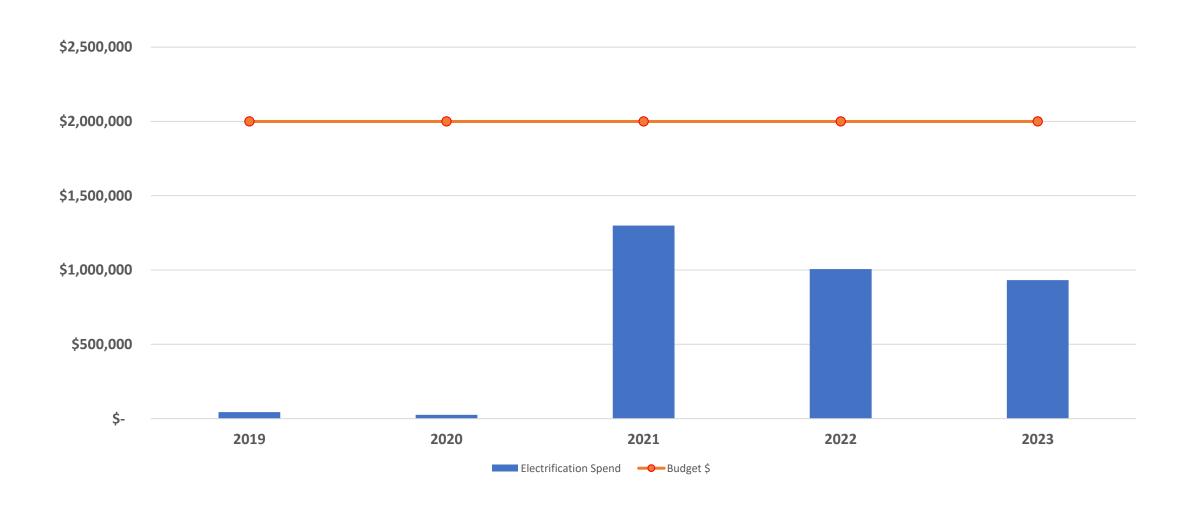






BP-SD-10 Electrification Spend by Year

Includes Capital and O&M



BP-SD-10 Electrification 2023 Investment

BP-SD-10-Electrification	Count	NPPD \$	
Residential Electric Vehicle*	13	\$	52,000
Residential ChargePoint Charging Station	52	\$	26,000
Residential Charging Station Pre-Wiring	97	\$	46,351
Utility/Non-Profit Owned Charger	5	\$	387,306
Commercial Charger and Conduit	5	\$	57,459
Induction Cooktop	111	\$	48,700
Electric Mowers	337	\$	92,787
Other Lawn and Garden**	197	\$	18,974
Wholesale Customer Advertising	91	\$	12,408
Totals	908	\$	741,985

^{* 2022} Incentives paid in 2023

^{**} Chainsaws, Tillers, and Snowblowers

National Electric Vehicle Infrastructure (NEVI)

Nebraska Plan

- Nebraska targeted locations
 - ✓ Retail: Big Springs, Kearney, York
 - ✓ Wholesale: Gothenburg
 - ✓ Others: Kimball, Sidney, Omaha
- \$6 Million per year for 5 years
- 20% matching funds for host site/owner, 80% by NEVI program
- NPPD will not incentivize NEVI chargers starting July 1, 2024
- Requirements
 - √ 4 DCFC stations each capable of 150 kW charging
 - ✓ Within 50 Miles of next stations

2024/2025 Program Changes

Proposed limits in effect 1 July 2024

- NPPD will not incentivize NEVI backed DCFCs.
- Added Maximum for commercial "For Profit"
- Added Maximum for "Non-Profit"

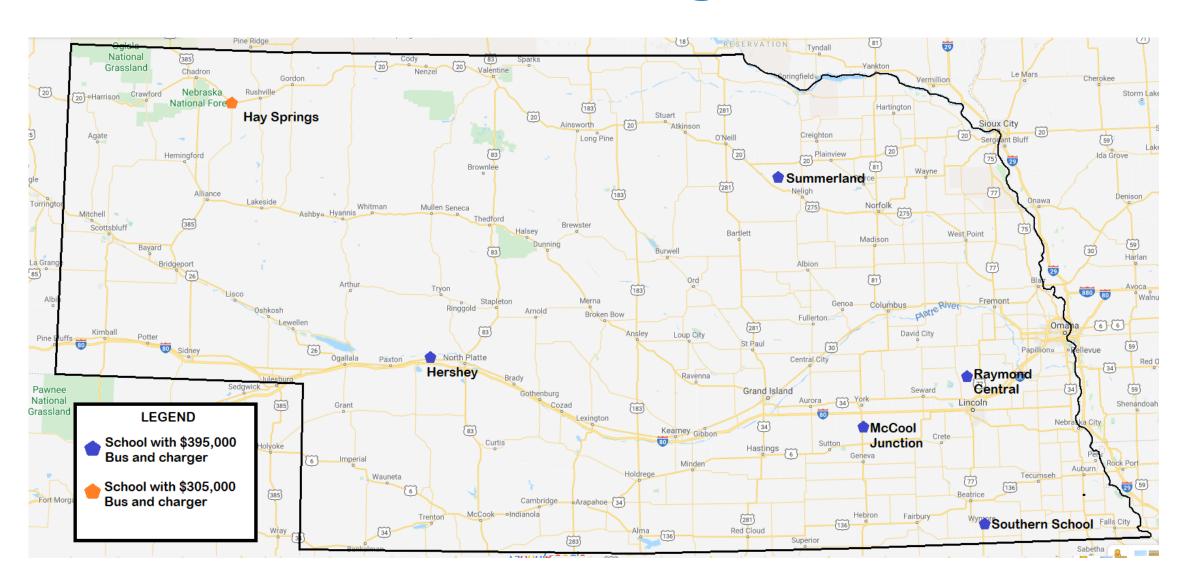
Potential 2025 Updates

- Focus on level 2 charging
- Focus on commercial conduit (make ready)
- Focus on residential pre-wiring (make ready)
- Adjust Commercial DCFC (due to legislation)

Clean School Bus (CSB) Program

- Infrastructure Investment and Jobs Act (IIJA or BIL)
 - ✓ \$5 Billion from 2022 to 2026
- Processed by Environmental Protection Agency (EPA)
- Replace Old Bus
 - ✓ Scrap 2010 or older diesel-powered bus
 - ✓ Scrap, sell or donate 2011 or newer bus
- Class 7+ Electric Bus gets \$375,000
- Class 3-6 Electric Bus gets \$285,000
- Schools also get \$20,000 for charging station infrastructure

Electric School Bus Program



Electric School Bus Program (Cont'd)

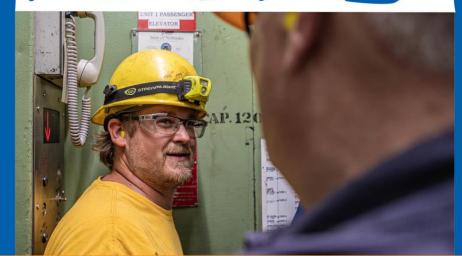
- Summerland (Elkhorn Rural PPD)
 - ✓ Bus Received: November 2023
 - ✓ Charger: one L3 (30 kW)
 - 90% incentive from NPPD/Elkhorn
- Raymond Central (Norris PPD)
 - ✓ Bus Received: Spring 2024
 - ✓ Charger: Unknown
 - Eligible for 90% incentive from NPPD/Norris
- Hershey (Dawson PPD)
 - ✓ Bus Received: October 2023
 - ✓ Charger: one L3 (62.5 kW)
 - 90% incentive from NPPD/Dawson

Electric School Bus Program (Cont'd)

- McCool Junction (Perennial PPD)
 - ✓ Bus Received: October 24, 2023
 - ✓ Charger: one L2 (19.2 kW)
 - 90% incentive from NPPD/Perennial
- Southern (City of Wymore)
 - ✓ Bus Received: Oct 31, 2023,
 - ✓ Charger: two L2 (19 kW), one L3 (60 kW)
 - 90% incentive from NPPD/City of Wymore
- Hay Springs (NPPD Retail)
 - ✓ Bus Received: expected April 2024
 - ✓ Charger: planning one L2 (19.2 kW)
 - Planning 90% incentive



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Questions

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