

Electric Vehicles in Nebraska



11TH ANNUAL
Nebraska
Wind & Solar
CONFERENCE & EXHIBITION
PRESENTED BY **NEXTERA**
ENERGY 
RESOURCES

October 16, 2018

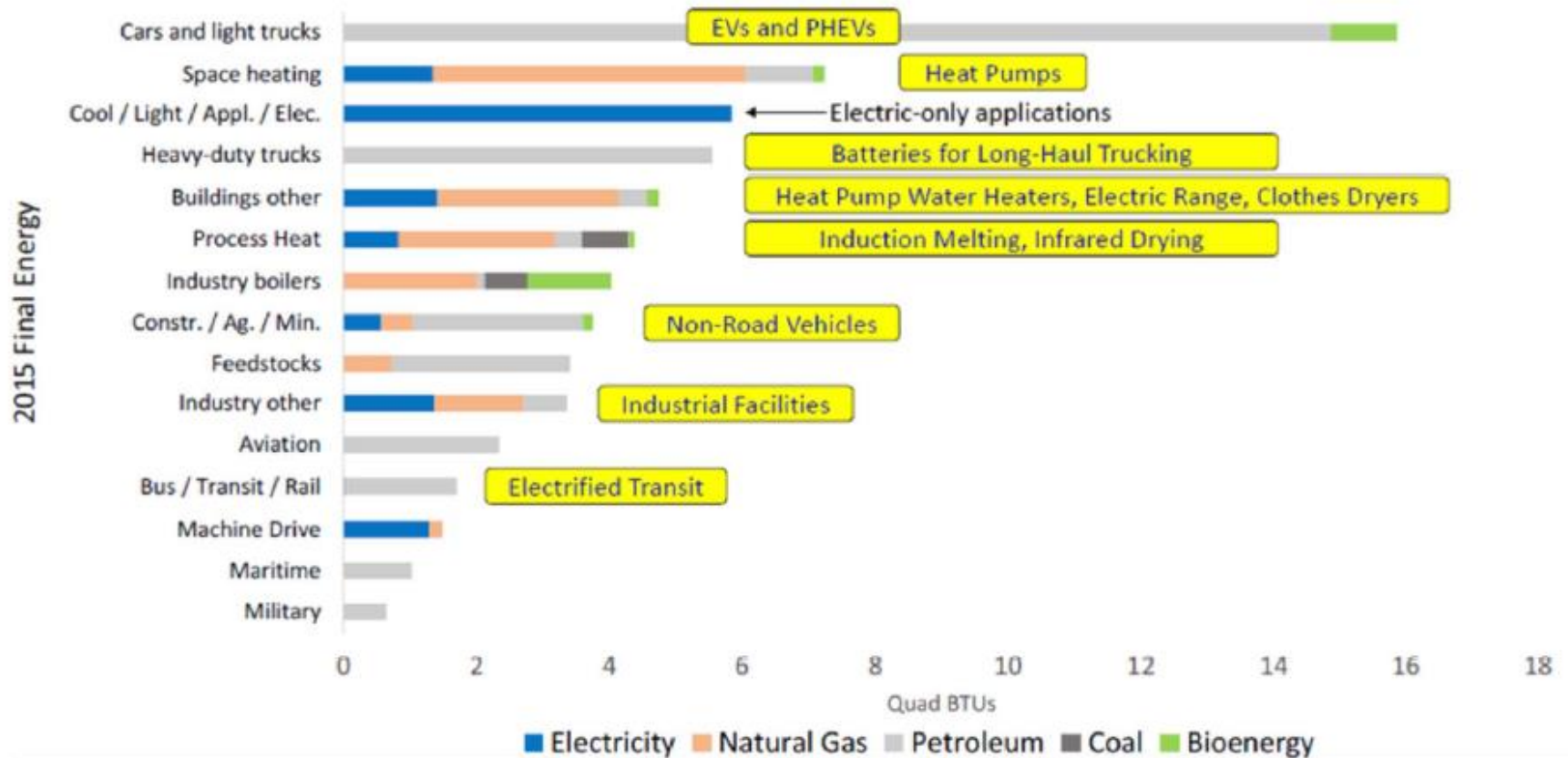
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Electric Vehicles and Renewable Energy

*“EVs provide a great new load to take advantage of renewable resources. By integrating smart charging equipment with the electric utilities, EVs can be charged when the renewable resources are providing more energy than what the current load needs. This integrating of smart energy equipment with electric utilities will also allow utilities to effectively manage EV charging load on the distribution system. **The bottom line is this integration will allow all rate payers to benefit from lower electricity costs with more efficient use of both the generation and distribution systems.**”*

Electrification Potential Varies by End-Use Application



Nebraska Power Association

- Comprised of the 166 utilities that produce and deliver electricity to Nebraskans.
- NPA EV Task Force
 - Formed May 3, 2017
 - Task Force includes representation from:

NPPD	City of Fremont
OPPD	NMPP Energy
LES	Nebraska Energy Office
Southern Power District	

Insert Moe & Anne's presentation

- Followed by NDEQ
- Followed by LES
- Followed by OPPD

NPPD purchased an Electric Vehicle

- DC fast charge option
- 238 mile range (ideal conditions)
- 60 kWh battery, 150 kW, 200 hp



NPPD installed a Public Charge at General Office

- ChargePoint
- Level 2 (240V @ 32A)
- Dual ports
- 7.2 KW each port
- 25 miles per charge hour
- Site is engineered for the future
 - Two conduits
 - DC fast charger 24KW, or
 - Duplicate level 2 charger



Grant Request and Associated Match

Participating Member	Summary Request	Request from NET	NPPD Match	Total Cost
NPPD	\$500 Rebate for each Chargepoint Home™ charging station (up to 50)	\$12,500	\$12,500	\$25,000
	\$4,000 Rebate for each electric vehicle (up to 15)	\$60,000	0	\$60,000
	Three Level 2 Charging Stations (CT 4021) - \$7,210 each	\$10,815	\$10,815	\$21,630
	Three 3-year Commercial Data Plan - \$1,410 each	\$2,115	\$2,115	\$4,230
	\$100 Rebate for electrical wiring in each new home construction (up to 400)	\$20,000	\$20,000	\$40,000
	SUB TOTAL	\$105,430	\$45,430	\$150,860

Questions?
