

# Nebraska Wind and Solar Conference

October 16, 2018  
Lincoln, Nebraska

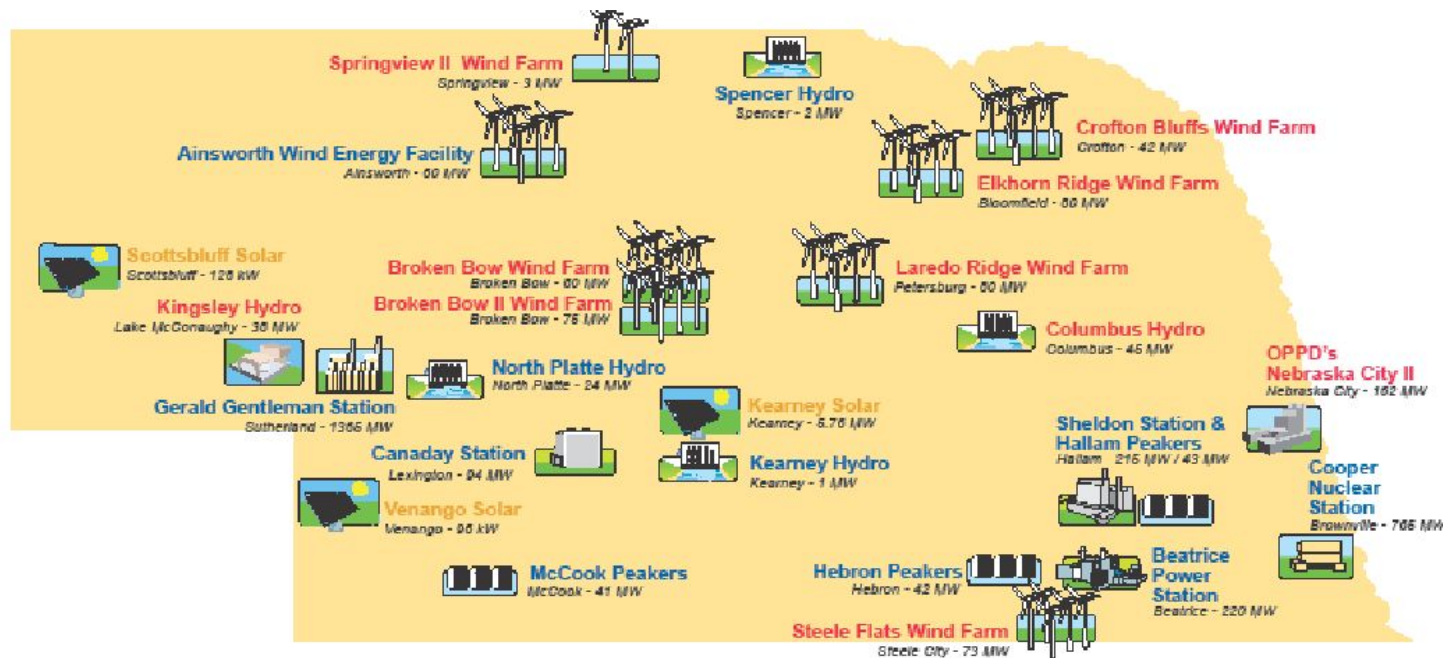
Tom Kent, NPPD Vice President  
and Chief Operating Officer



Nebraska Public Power District

*"Always there when you need us"*

# NPPD's Generation Profile



- ✓ 3,144 MW Generation
- ✓ 19.6 Billion kWh sold
- ✓ \$1.1 Billion Revenue

**LEGEND**

- NPPD Owned
- Power Purchase Agreement (All or Part)
- Retail Community Solar Locations

11/028/25  
1/17

# NPPD Transmission System

## Transmission (115 kV-345 kV)

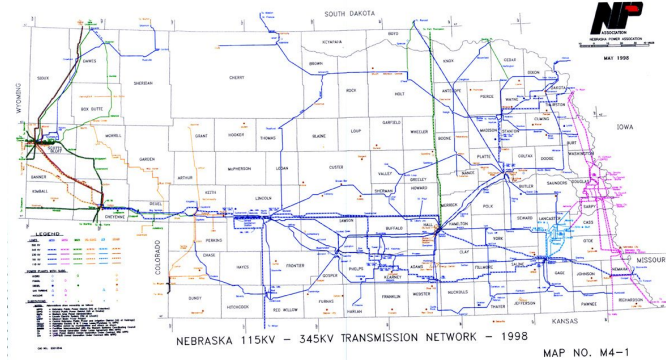
- 4,622 miles of high-voltage transmission lines

## Sub-Transmission (34.5 kV-69 kV)

- 714 miles of sub-transmission lines

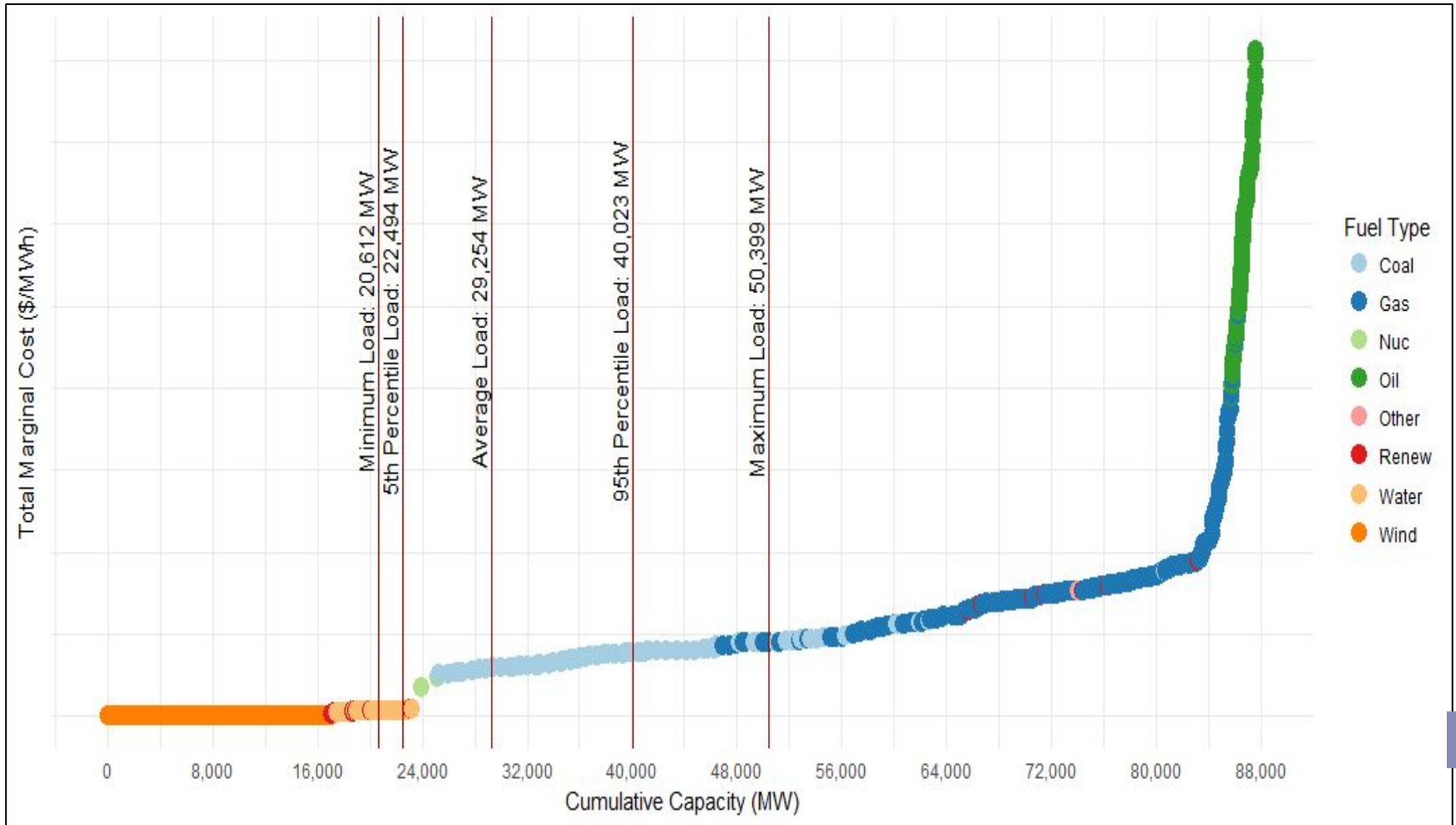
Since 2007, NPPD has been involved with ten, 345/115 kV transmission line projects<sup>(1)</sup>

- 597 new miles of transmission
- Investment: Approx. \$725 million



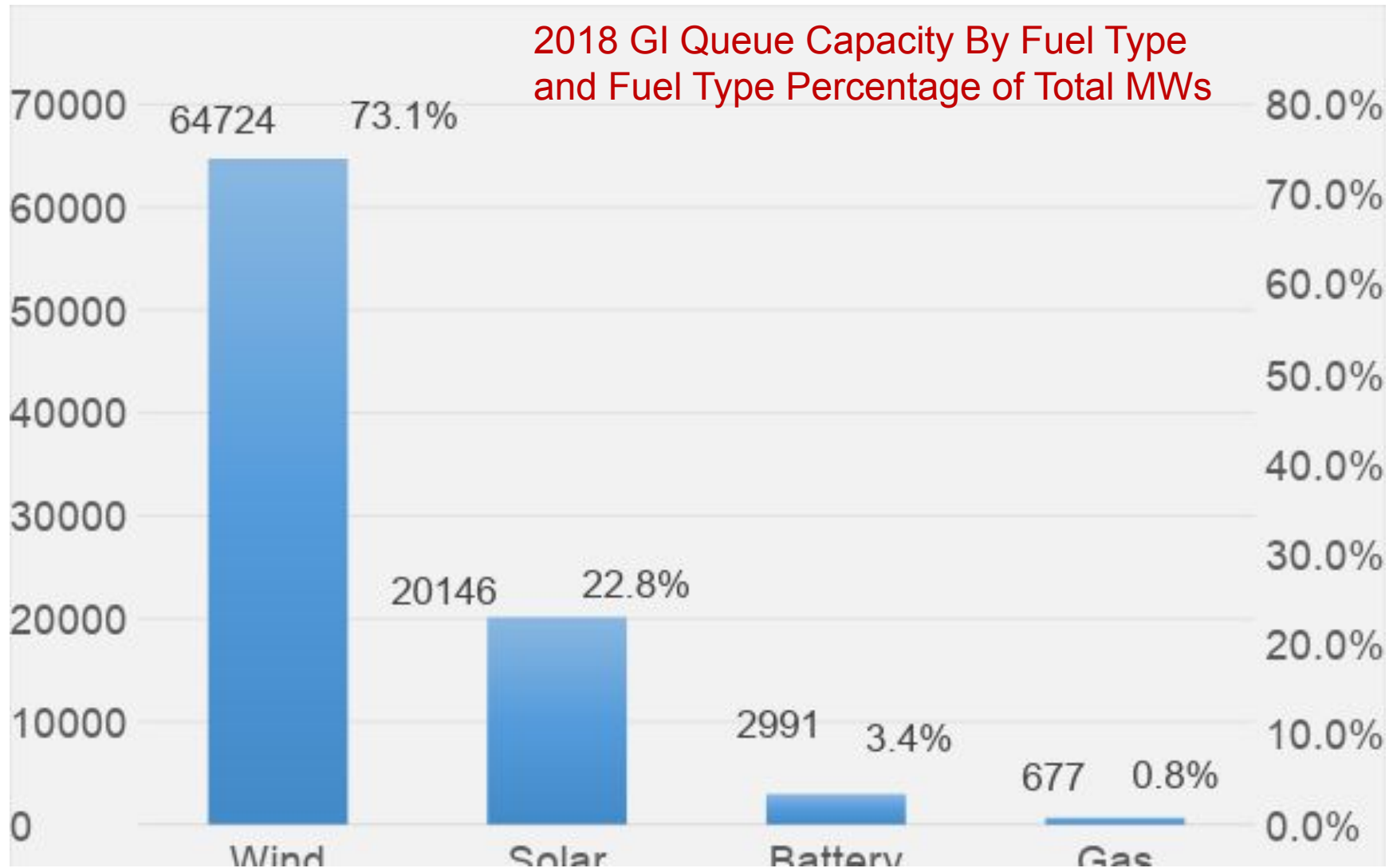
(1) Includes R-Project

# SPP Generation Stack (Summer 2017)

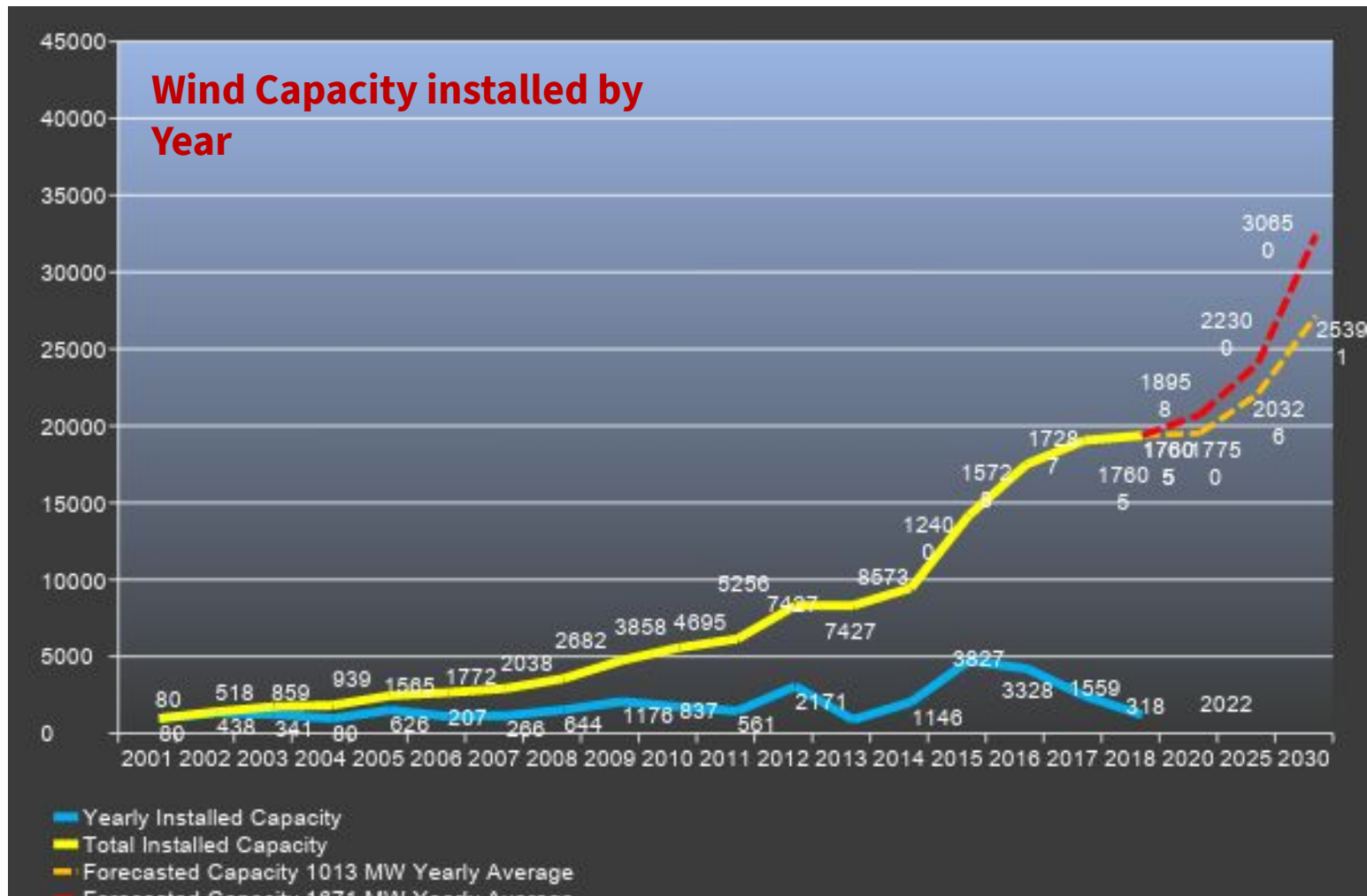


Source: Velocity Suite SPP data, NPPD

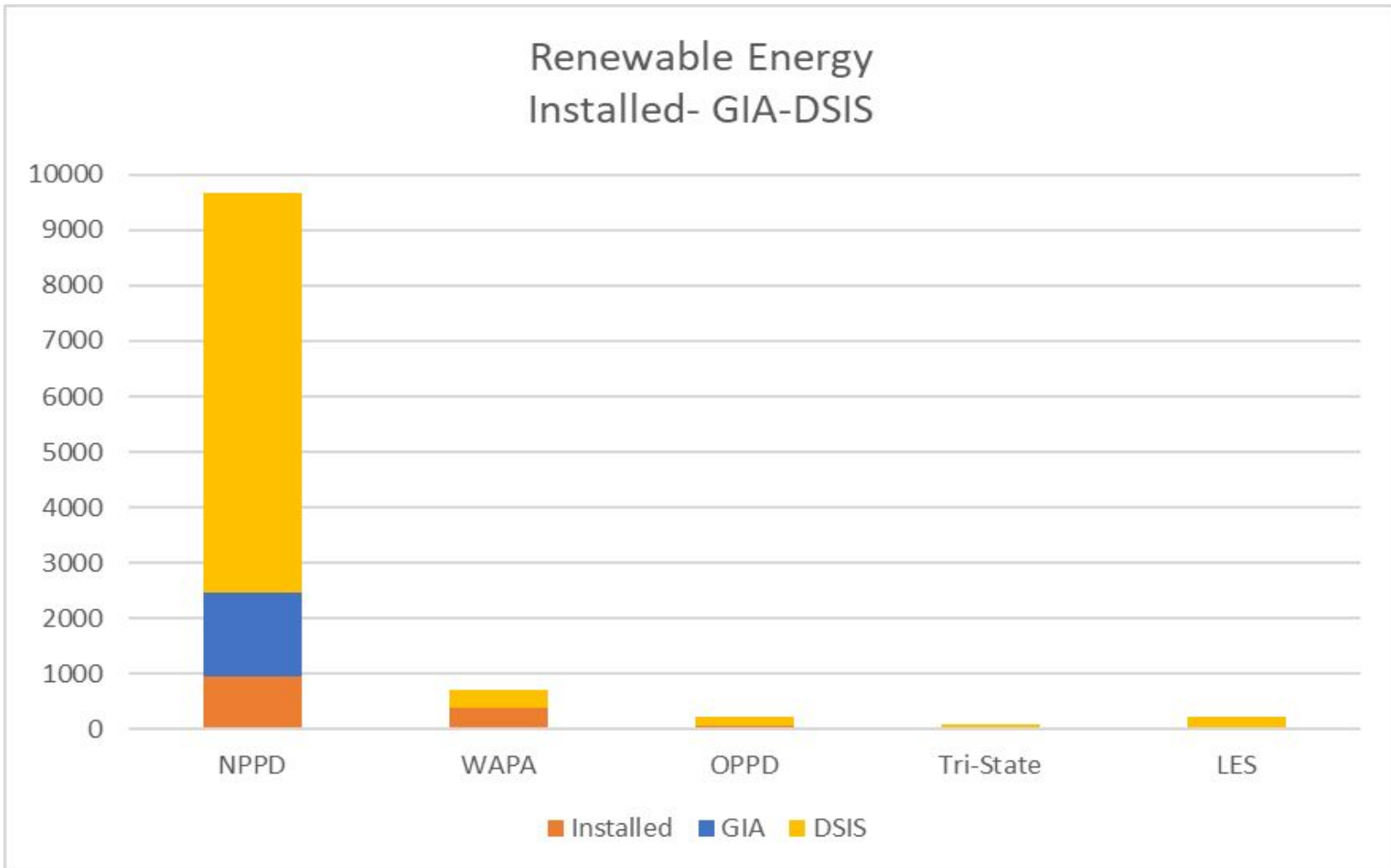
# What's in the SPP queue?



# SPP Wind Capacity Growth Trend



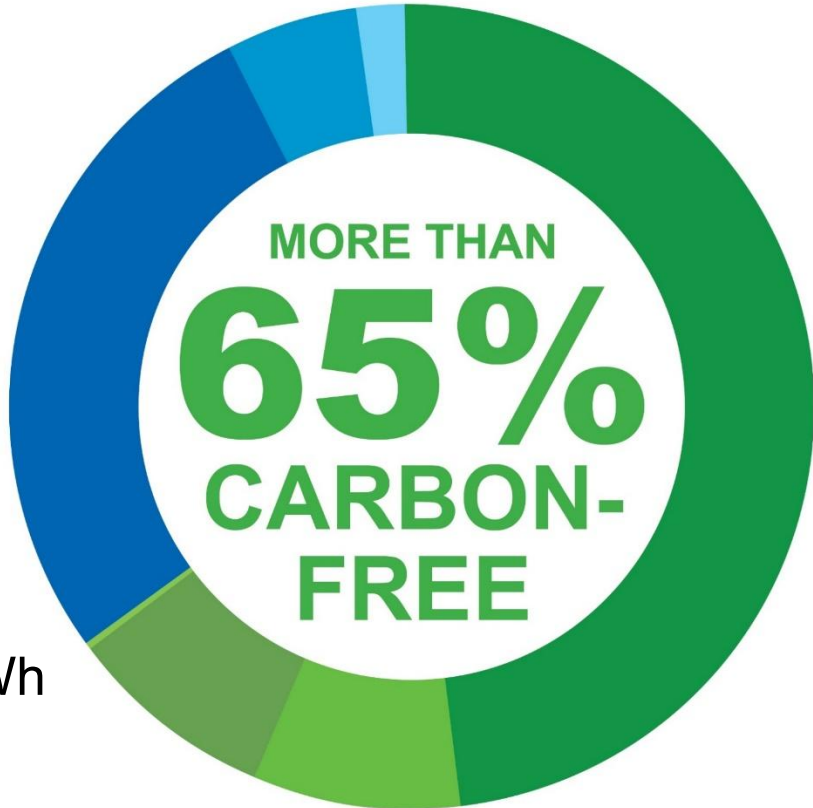
# What's in the SPP (NE) queue?



Based on interconnection with host transmission owner's system.

# 2017 NPPD Energy Generation Resources

Nebraska Customers



- ✓ 682 lbs CO2 / MWh
- ✓ 32% reduction from 2010 levels

QLG*	Gas/Oil	Purchases	Wind	Hydro	Coal	Nuclear
0.4%	2.0%	5.5%	8.3%	8.4%	27.3%	48.2%

\*Qualifying Local Generation (QLG) includes renewable energy facilities installed by our wholesale customers and in NPPD retail communities.



# Community Solar

- NPPD's SunWise<sup>SM</sup> Community Solar Program enables NPPD Retail communities the ability to install community solar and limit cost shift to non-participating customers
- In 2017, community solar facilities launched in Venango, Scottsbluff, and Kearney
  - Kearney is currently the state's largest solar project
  - Solar shares in each community are fully subscribed
  - NPPD helped market the solar shares
  - The three projects total 6 MWs of new solar in the state
- Interest building on Community Solar
  - NPPD has received interest from Norfolk and Chadron
  - Scottsbluff interested in adding 5 MW



Kearney Solar



Scottsbluff Solar



Venango Solar

# Grant proposals by NPPD

- Nebraska Environmental Trust (NET)
  - Application for \$499,000 for Battery Energy Storage System demonstration project
    - Cooperative effort with City of Norfolk to connect with future Community Solar
  - Nebraska Community Energy Alliance
    - \$100,000 through NET for Electric Vehicle charging stations

# Monolith Project Status

- Monolith has started construction of its manufacturing facility in Hallam
- Monolith opened its Technical Center in September
- NPPD beginning engineering and design work for SS2 boiler conversion to burn hydrogen as a fuel
- Displaces approximately 1 Million Tons of CO<sub>2</sub> from NPPD's generation mix

# Questions?

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