

Nebraska Wind and Solar Conference

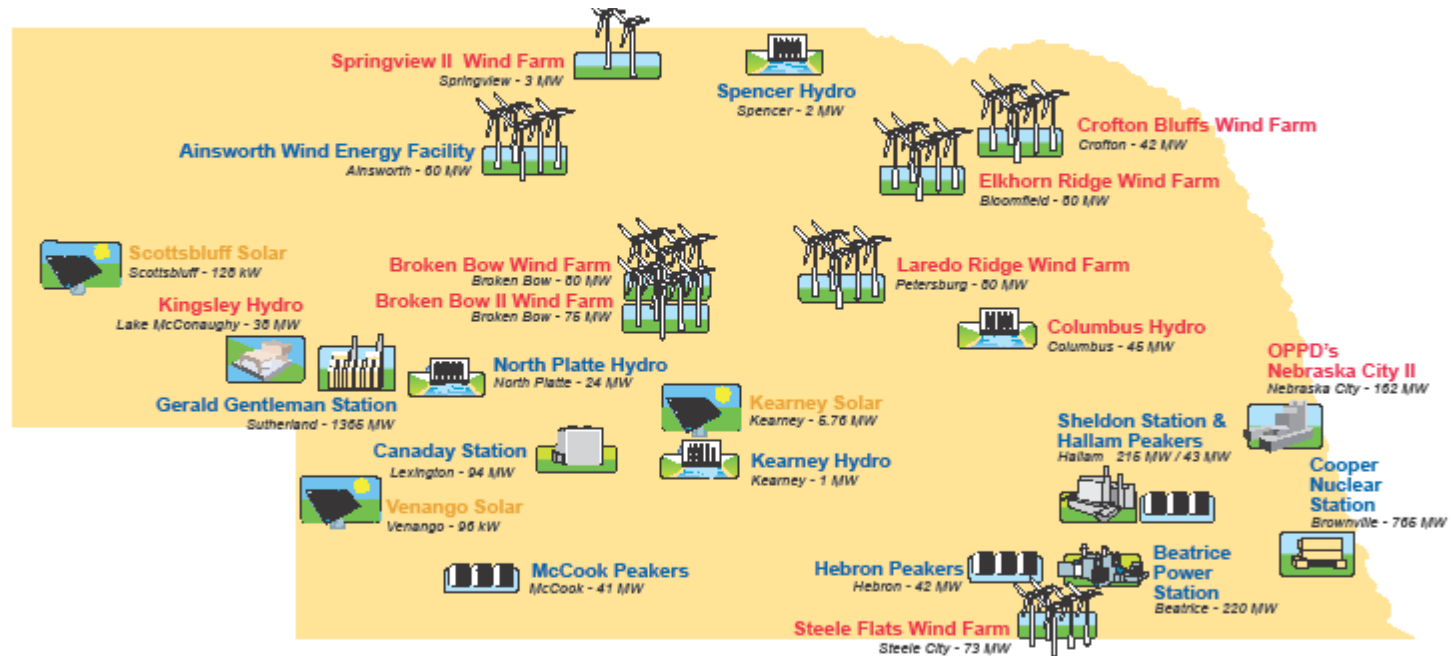
October 16, 2018
Lincoln, Nebraska

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

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1/17

NPPD Transmission System

Transmission (115 kV-345 kV)

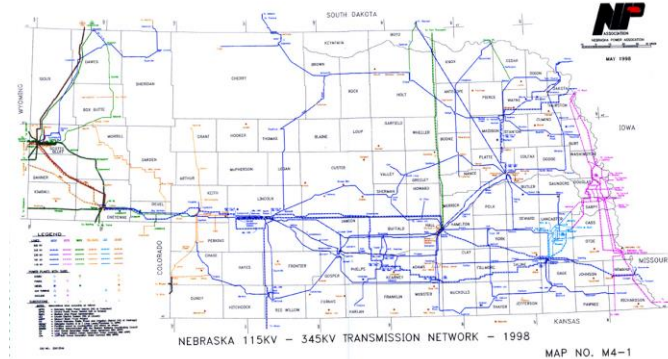
- 4,622 miles of high-voltage transmission lines

Sub-Transmission (34.5 kV-69 kV)

- 714 miles of sub-transmission lines

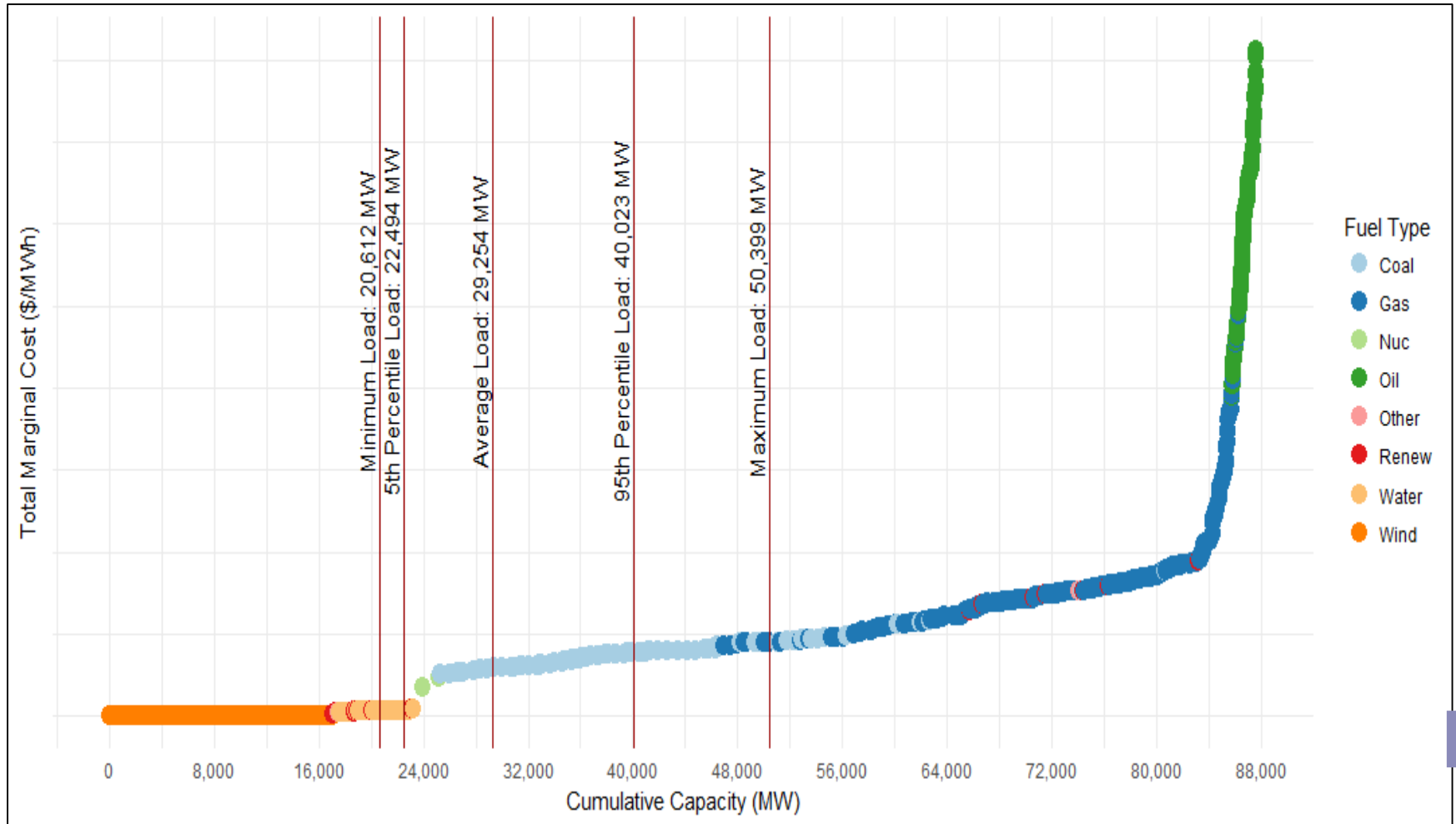
Since 2007, NPPD has been involved with ten, 345/115 kV transmission line projects⁽¹⁾

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



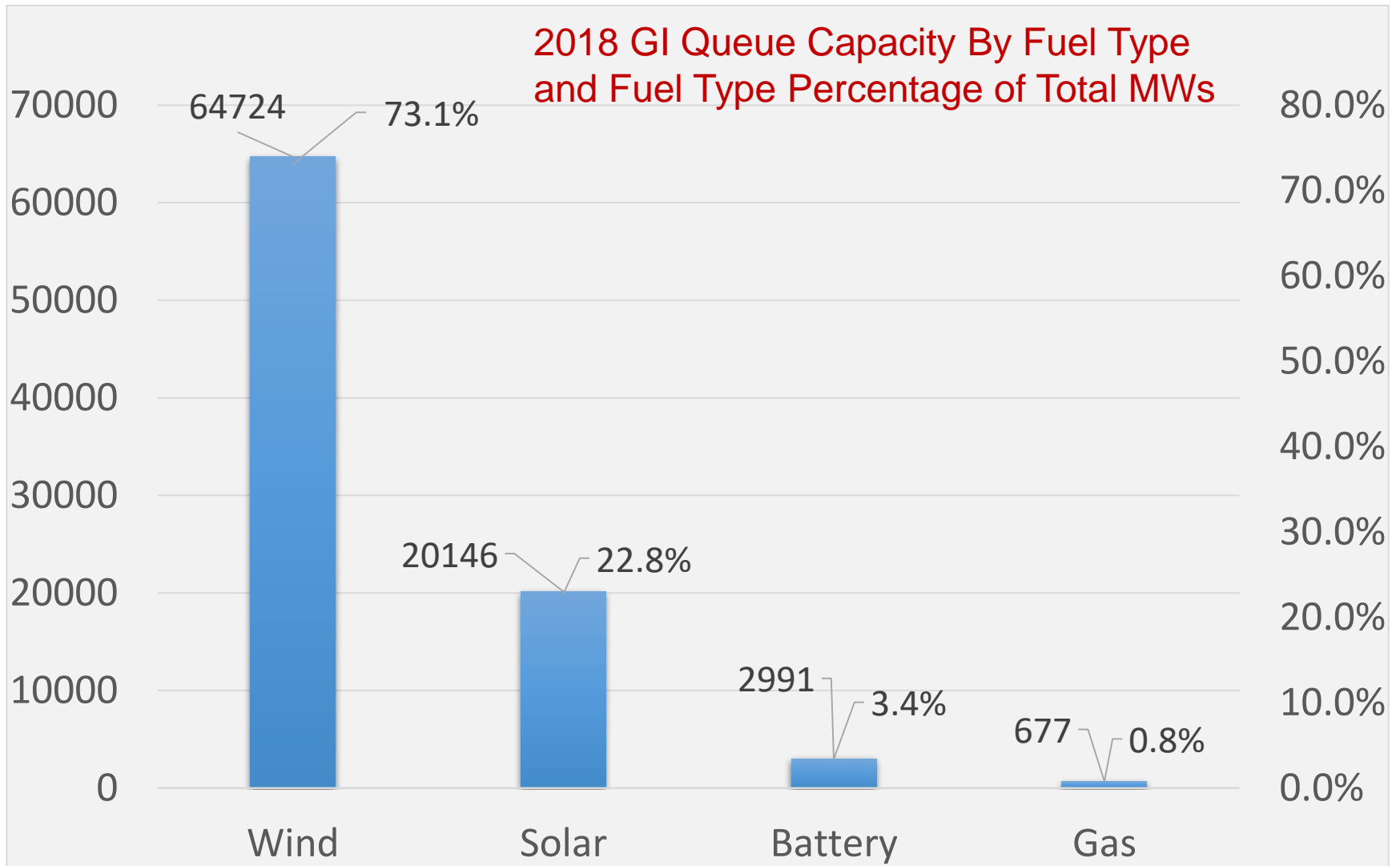
(1) Includes R-Project

SPP Generation Stack (Summer 2017)

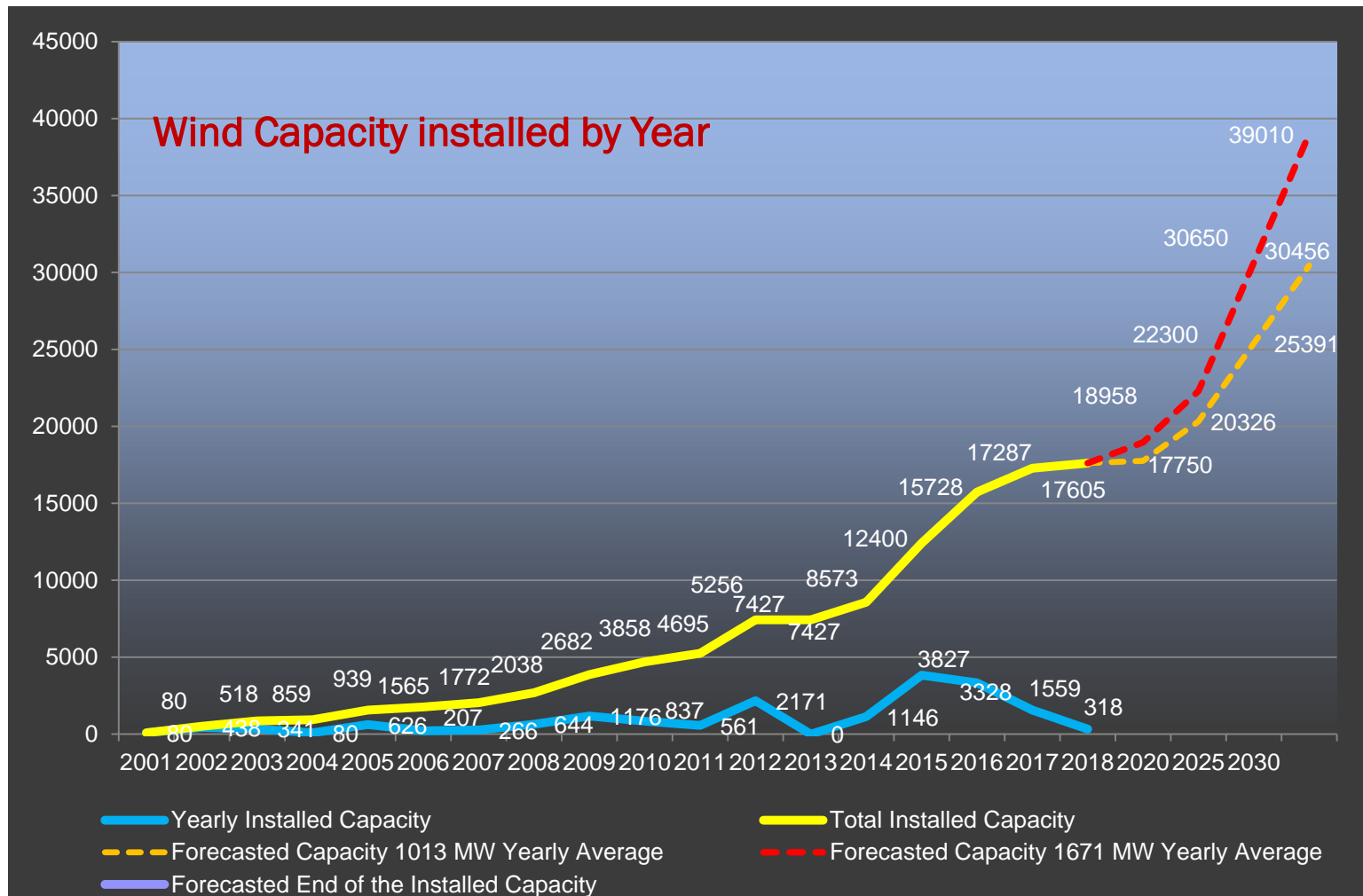


Source: Velocity Suite SPP data, NPPD

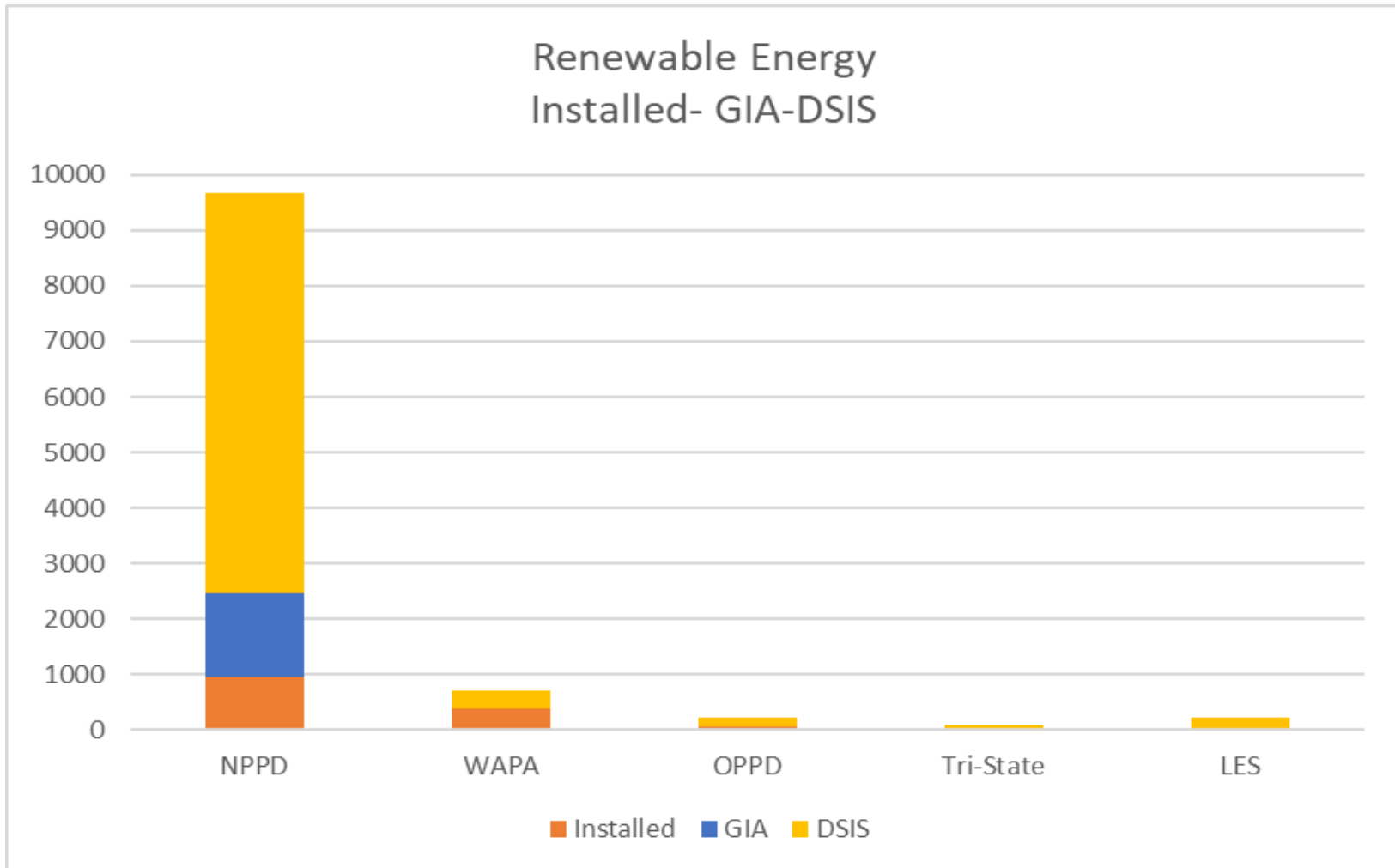
What's in the SPP queue?



SPP Wind Capacity Growth Trend



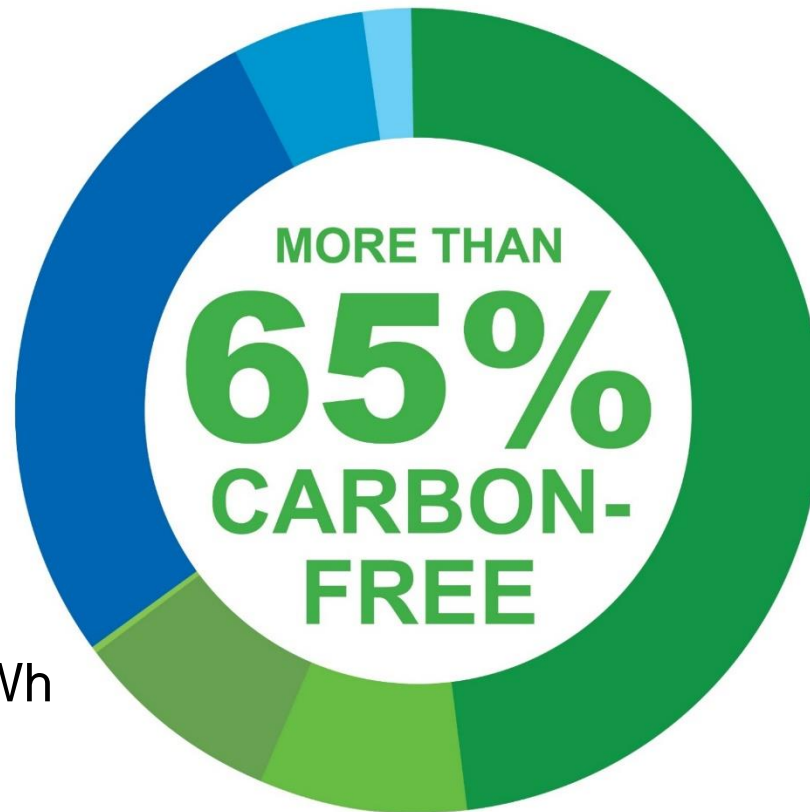
What's in the SPP (NE) queue?



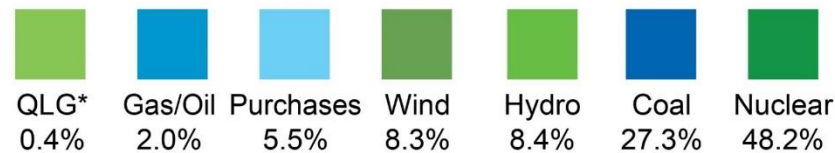
Based on interconnection with host transmission owner's system.

2017 NPPD Energy Generation Resources

Nebraska Customers



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



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

Community Solar

- NPPD's SunWiseSM 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 CO₂ from NPPD's generation mix

Questions?

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