



BOARD OF DIRECTORS

February 15, 2022

ITEM

Power with Purpose: Transmission and Substation Updates


PURPOSE

Provide updates on Power with Purpose projects for February 2022.

ENERGY DELIVERY FACTS


1. Easement negotiations for the Sarpy Southwest Transmission Project (SSWTP) are progressing with initial offers made to all property owners in early January. Signed easements have been acquired on approximately 10% of those offers and discussions continue with the remaining landowners.
2. Eight (8) proposals were received in response to the transmission construction Request for Proposal (RFP) and bids are under review. Anticipated award in early February with construction starting in March 2022.

RECOMMENDED:

DocuSigned by:

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 Troy R. Via
 Chief Operating Officer & Vice President
 Utility Operations

APPROVED FOR REPORTING TO BOARD:

DocuSigned by:

 AG399FDCE56247E...

 L. Javier Fernandez
 President and Chief Executive Officer

TRV:maw

Information as of January 28, 2022



Power With Purpose Update February Open Committee Meeting

February 15, 2022





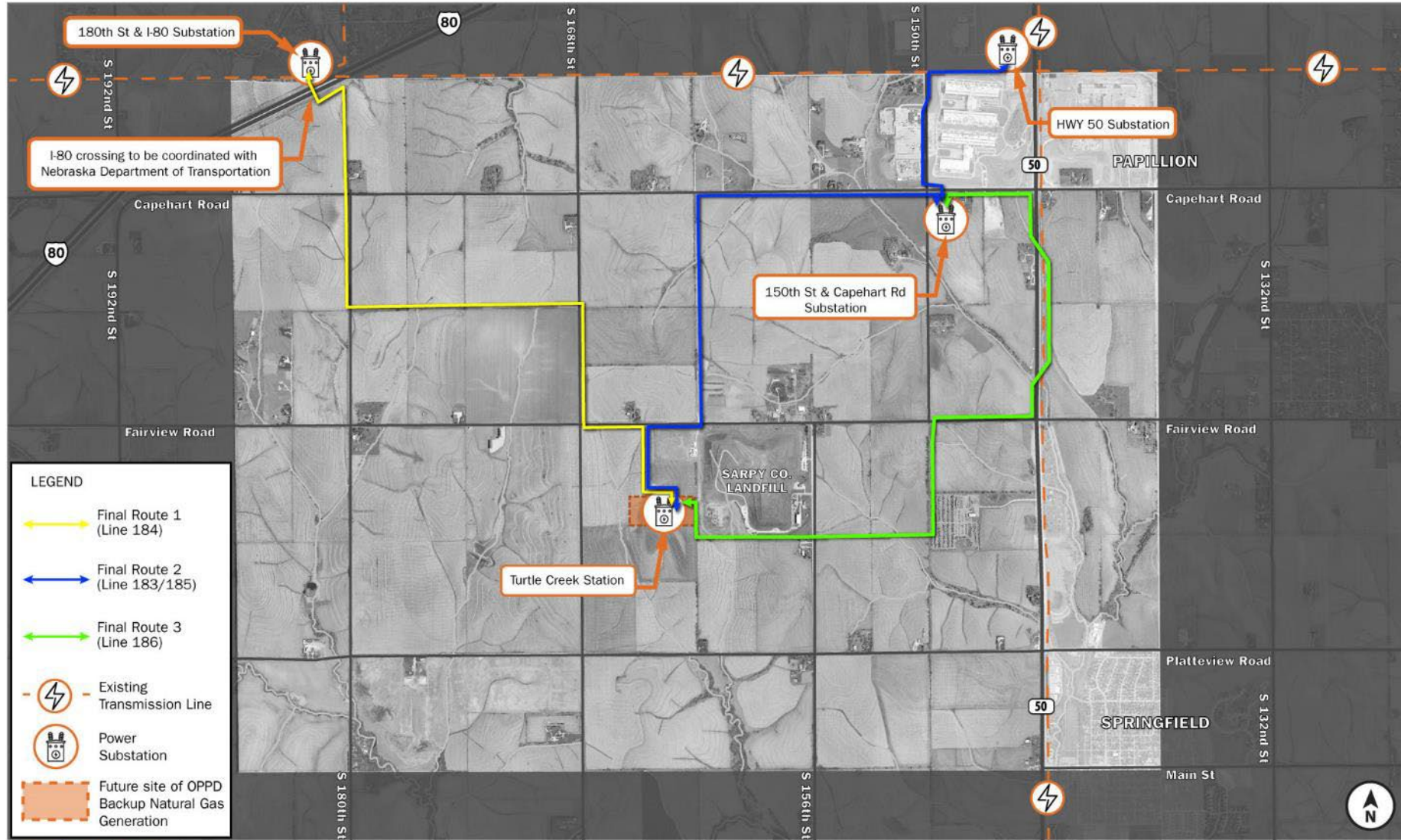
Transmission & Substation Update



Updates

- Sarpy Southwest Transmission Project (SSWTP)
- Transmission and substation projects supporting PWP

SSWTP Route Alignment



Sarpy Southwest Transmission Project

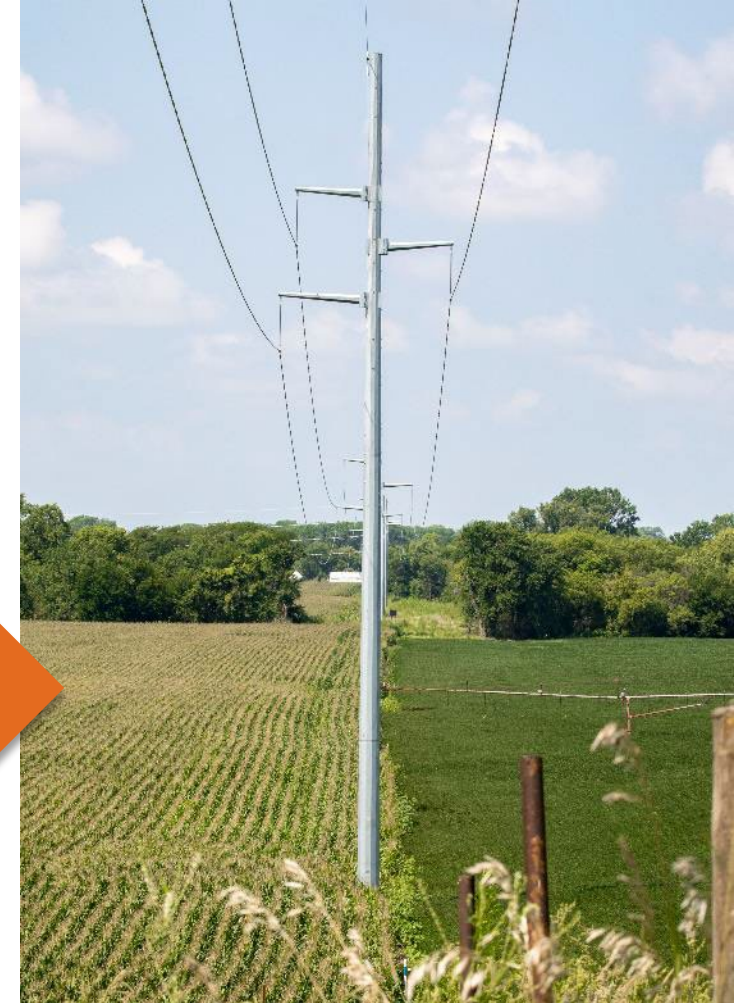
Final Route Alignments

September 2021

SSWTP Structure Examples



**Double Circuit 345
kV/161 kV Monopole**
- Average height 165 feet
- 6.7 miles



**Single Circuit
161 kV Monopole**
- Average height 125 feet
- 3.5 miles

Sarpy Southwest Transmission Project

- Easement Acquisition
 - 36 easements required (25 landowners)
 - ~10% easements have been signed
 - Primary feedback: market value, appraisal value
 - Temporary easements: as needed for construction
 - Construction interface: March 2022 - March 2023
- Transmission Contracts
 - Engineer’s Certification: approved February 2021
 - Competitive RFP process with negotiation for all contracts
 - Major contracts awarded: Structures (Valmont), Wire/Hardware (Wesco), Construction (Brink)

| Stakeholder Schedule | Milestone (Past/Future) |
|------------------------------|-------------------------|
| Public Meeting 1 | January 26, 2021 ✓ |
| Public Meeting 2 | March 30, 2021 ✓ |
| Route Announcement | May 2021 ✓ |
| Public Hearing | October 5, 2021 ✓ |
| Initial Easement Offers | January 2022 ✓ |
| Easement Final Offer Letters | March 2022 |
| Easement Completion | May 2022 |

| Transmission Schedule | Milestone (Past/Future) |
|-----------------------|-------------------------|
| Steel Structure Award | November 2021 ✓ |
| Wire/Hardware Award | December 2021 ✓ |
| Construction Award | February 2022 ✓ |
| Construction Begins | March 2022 |
| Construction Complete | February 2023 |

New Substation – 150th St. and Capehart Rd.

- Included in SSWTP stakeholder engagement process
- Supports load growth in the area while also providing interconnection for Turtle Creek Station
- Provides network connection for transmission reliability
- Designed to accommodate additional expansion
- August 2022 completion



Summary of T&D Projects Supporting PWP

- Substation Projects

- 2 new substations to support Turtle Creek Station and Standing Bear Lake Station
 - Included in overall generation EPC scope
- 1 new substation to support load growth (150th & Capehart Rd)
- 8 existing substations to be modified
- 30+ substations require additional analysis for protection system settings to support system changes

- Transmission Projects

- ~16 miles of new transmission (including SSWTP)
- ~22 miles of transmission line rebuild or uprate
 - Project activity will extend beyond commercial operation date (COD) of new generation

