# Line 576 Partial Rebuild - North Anna to Vontay

#### **General Information**

Proposing entity name

Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?

Company proposal ID

PJM Proposal ID

Project title

Project description

**Email** 

Project in-service date

Tie-line impact

Interregional project

Is the proposer offering a binding cap on capital costs?

Additional benefits

1. Line 576 Rebuild - North Anna to Vontay

2. North Anna Equipment Upgrade

**Project Components** 

**Transmission Line Upgrade Component** 

Component title

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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339

Line 576 Partial Rebuild - North Anna to Vontay

Rebuild 500 kV line 576 from North Anna Substation to Vontay Substation using 6,000A, 500 kV conductor. Line 576 will cut-in to the new Vontay substation in a different proposal. Upgrade/install 6000A equipment at substations to support the new conductor termination.

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06/2032

No

No

Yes

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Line 576 Rebuild - North Anna to Vontay

Project description The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Impacted transmission line Line 576 North Anna Point A Point B Vontay Point C Terrain description The project area is in the central Virginia Piedmont region with elevations ranging from approximately 130 to 260 feet. The terrain is predominately vegetated existing right-of-way with several areas of dense residential development consisting of minimal slopes. The line will include rebuilt crossings of Interstate 64, Jefferson Highway (Route 33), Midlothian Turnpike (Route 60), CSX railroads, Lake Anna, the James River, and the Little River. The line starts in Louisa County and runs through Hanover County, Goochland County, and Powhatan County, and terminates in Chesterfield County. **Existing Line Physical Characteristics** Operating voltage 500 2-2500 ACAR (84/7) 90°C MOT Conductor size and type New hardware will be used for line rebuild. Hardware plan description Existing Structures will be removed and new structures will be used for this rebuild. Tower line characteristics **Proposed Line Characteristics** Designed Operating Voltage (kV) 500.000000 500.000000 Normal ratings **Emergency ratings** Summer (MVA) 5109.000000 5268.000000 Winter (MVA) 5691.000000 5867.000000 3-1351 ACSS/TW/HS285 145° C MOT Conductor size and type

Shield wire size and type

Rebuild line length

Rebuild portion description

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

#### (2) DNO-10110 OPGW wire

20 Miles

EXISTING FACILITIES TO BE REMOVED: 1. Remove two (2) existing single circuit 5DE tower structures. 2. Remove existing single circuit 5HA tower structures. 3. Remove existing single circuit 5HT tower structures. 4. Remove existing single circuit 5LA tower structures. 5. Remove existing single circuit 5LT tower structures. 6. Remove existing single circuit 5MA tower structures. 7. Remove existing single circuit 5MT tower structures. 8. Remove one (1) existing single circuit 2-pole H-frame structures. 9. Remove approximately 20 miles of 2-2500 ACAR (84/7) conductor. 10. Remove approximately 20 miles of two (2) fiber optic GW 45/45 MM2 614. PERMANENT FACILITIES TO BE INSTALLED: 1. Install 500kV 5-2 KT Tower on foundations. 2. Install 500kV 5-2 MA Tower on foundations. 3. Install 500/230kV 3 Pole Steel DC DDE Heavy Angle on foundations. 4. Install 500/230kV 3 Pole Steel DC DDE Small/Medium Angle on foundations. 5. Install approximately 20 miles of two (2) DNO-10100 OPGW wire. 6. Install approximately 20 miles of three 3-phase 3-1351 ACSS conductor.

Existing Right-of-Way shall be used.

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\$102,700,058.00

Component cost (in-service year) **Substation Upgrade Component** Component title Project description Substation name Substation zone Substation upgrade scope Transformer Information None New equipment description Substation assumptions Real-estate description Construction responsibility Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting ROW / land acquisition Materials & equipment Construction & commissioning

\$109,991,762.00

North Anna Equipment Upgrade

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North Anna

345

Replace four (4) 500kV, 3000 A Double End Break switches with 6000A switches. Replace/install associated equipment including CCVTs, wave traps and relay equipment.

Replace four (4) 500kV, 6000 A Double End Break switches

1. The scope of work assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. Pad connections must be replaced to maintain 6000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.

No additional real estate needed

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2025-W1-339 4

Construction management

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Overheads & miscellaneous costs

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Contingency

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Total component cost

\$2,158,171.20

Component cost (in-service year)

\$2,311,401.00

### **Congestion Drivers**

None

# **Existing Flowgates**

None

# **New Flowgates**

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

## **Financial Information**

Capital spend start date 01/2026

Construction start date 06/2029

Project Duration (In Months) 77

#### Cost Containment Commitment

Cost cap (in current year)

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Cost cap (in-service year)

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Components covered by cost containment

2025-W1-339 5

1. Line 576 Rebuild - North Anna to Vontay - Dominion 2. North Anna Equipment Upgrade - Dominion Cost elements covered by cost containment Engineering & design Yes Permitting / routing / siting No ROW / land acquisition No Materials & equipment No Construction & commissioning No Construction management No Overheads & miscellaneous costs No Taxes No AFUDC No

Escalation No

Additional Information The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Is the proposer offering a binding cap on ROE?

Would this ROE cap apply to the determination of AFUDC?

Yes

Would the proposer seek to increase the proposed ROE if FERC No finds that a higher ROE would not be unreasonable?

Is the proposer offering a Debt to Equity Ratio cap?

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## **Additional Comments**

None