Welcome

White Oak Electric Transmission Project Community Meeting

Elko Middle School

Sept. 15, 2022

6-8 p.m.

Agenda

- Welcome / Introductions
- Project Overview Presentation ~20 Minutes
- Q&A Session
- Open House Style until 8 p.m.

** The presentation and Q&A session will be recorded and placed on our website.*

Our Commitment

- Explain project information clearly
- Listen and respect questions, concerns from our community members, learn
- Act in the interest of our customers and neighbors

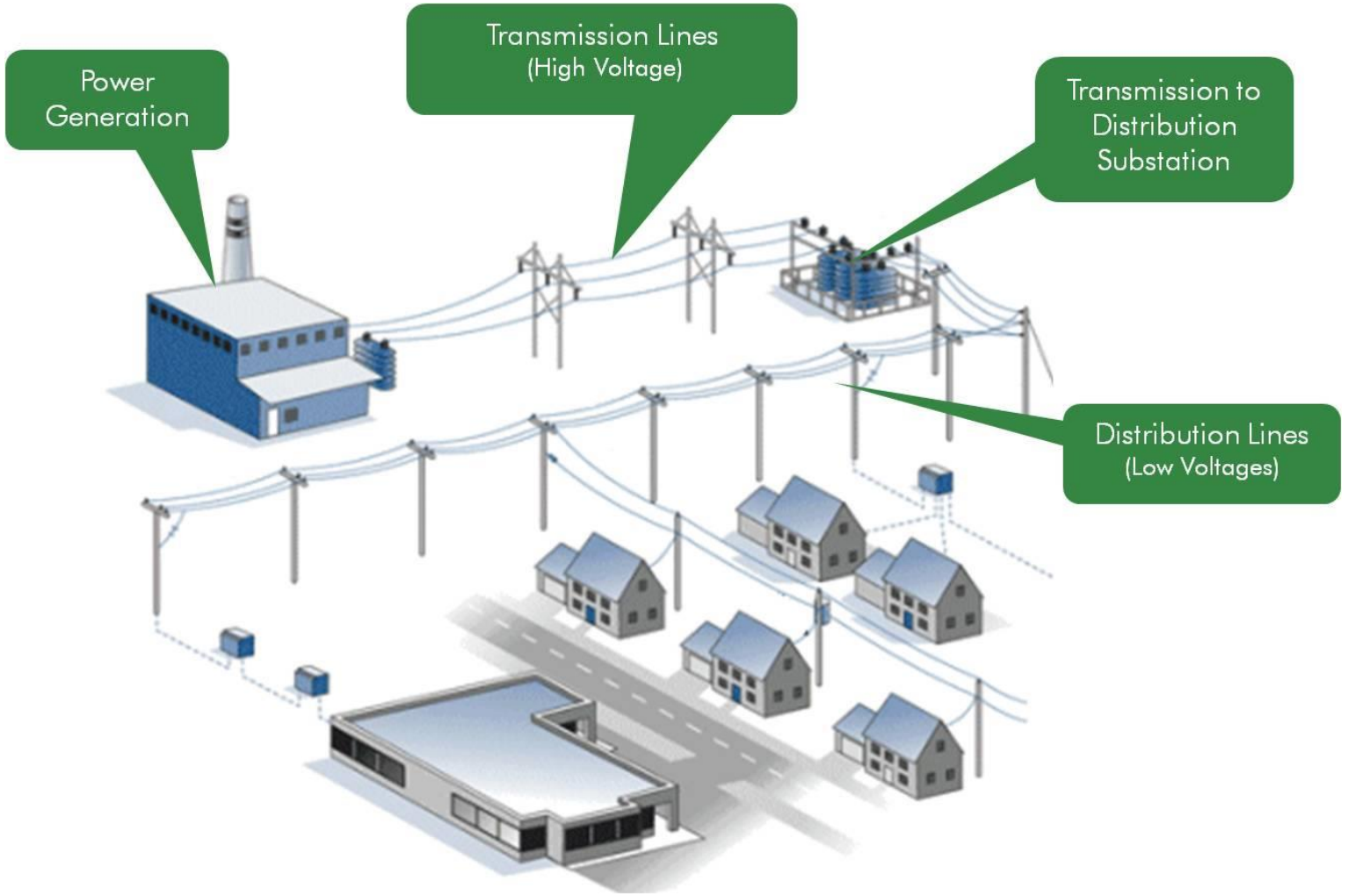
Thank you for being here.

Electric Transmission 101

Electric transmission and electric distribution lines both carry electricity, but they look different and serve different functions.

Electric transmission lines are high voltage lines that carry electricity from our power stations to substations.

Once the transmission line reaches a substation, the voltage is lowered and delivered to your home or business via electric distribution lines.

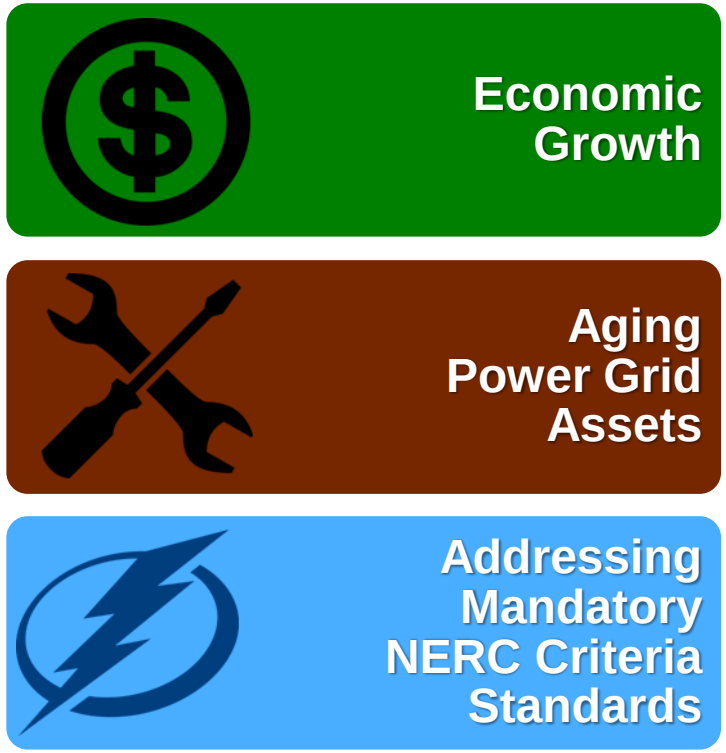


Our Obligation to Serve

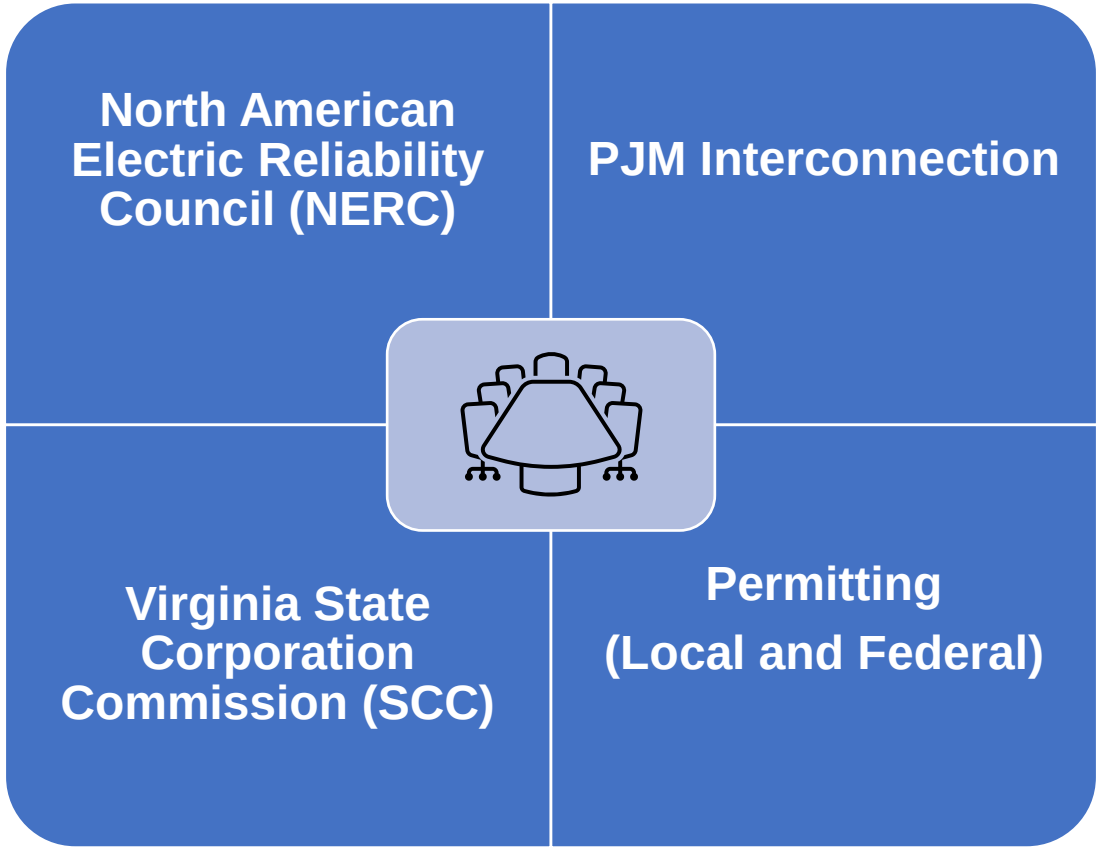
Dominion Energy has an obligation to serve our customers and maintain a safe, reliable electric grid.

Key factors to ensure grid reliability:

- Comply with industry standards
- Ensure maintenance of our assets
- Plan for events and create contingencies



Planning Stages of a Transmission Project



Virginia State Corporation Commission (SCC)

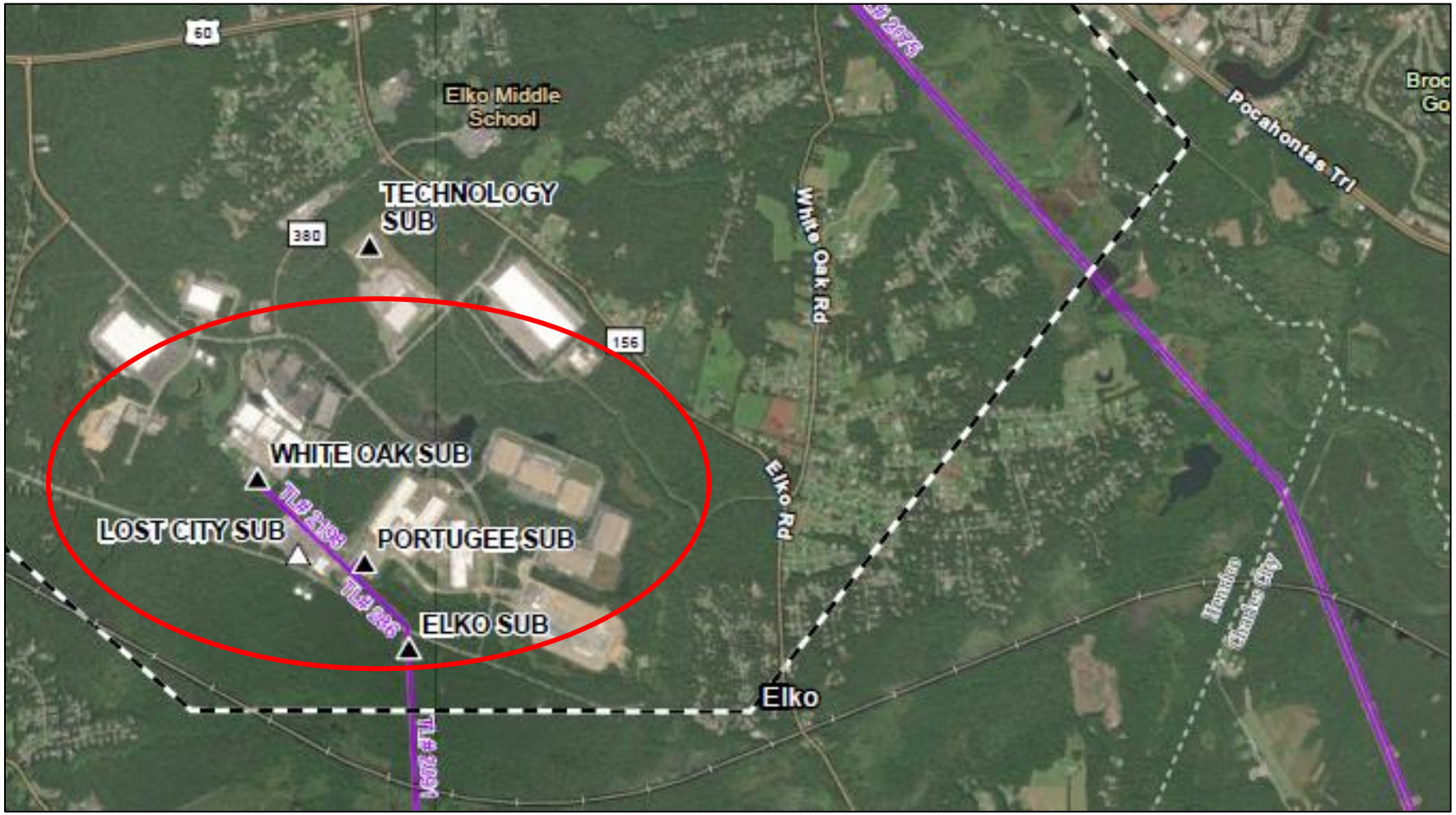
- SCC is the regulatory body with jurisdiction over transmission lines at or above 138 kV
- Dominion Energy will file an application with the SCC to review whether the project is needed, and which route reasonably minimizes impacts
- Dominion Energy plans to file an application with the SCC in late 2022
- The SCC will review the case, and ultimately decide which route the company will construct

Opportunities for public involvement throughout the process, including public hearings

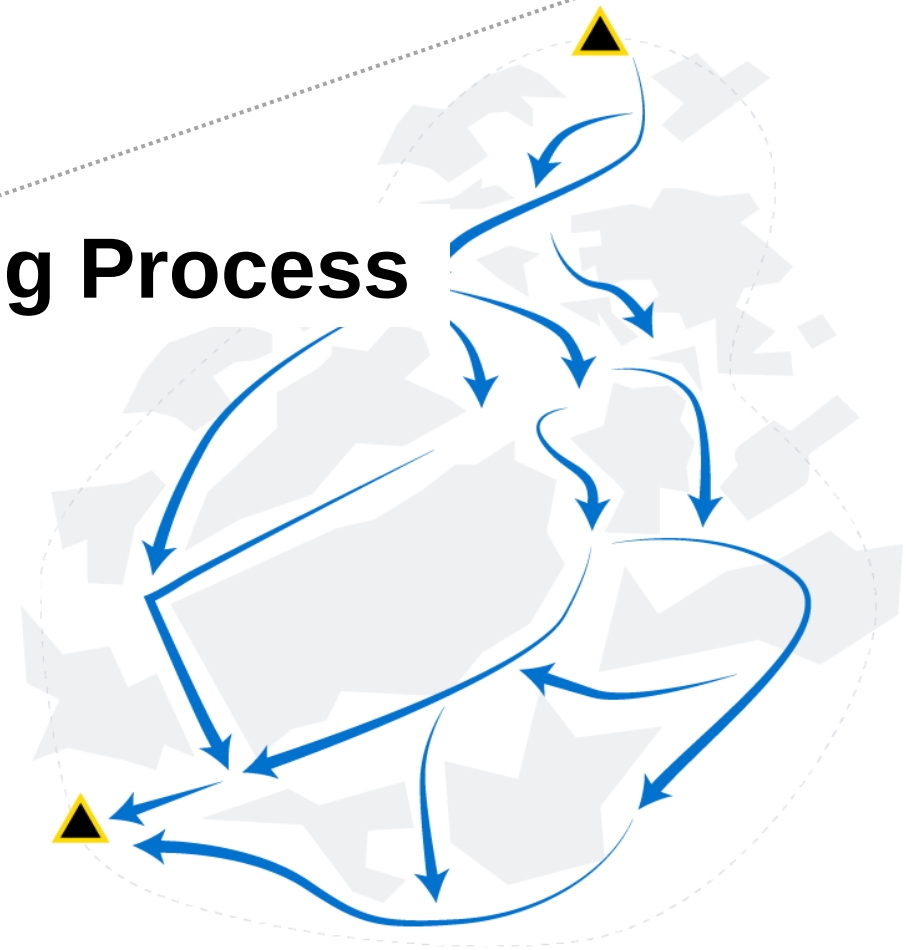
The SCC review process typically lasts about one year but may vary.

White Oak Need

- Growth in the area has created the need for new substations
- NERC requires new transmission line to support the new substations and growth
- Additional substations planned



The Routing Process



Routing Process

Routing Process

Code of Virginia Title 56. Public Service Companies Chapter 1. General Provisions § 56-46.1.

As a condition to approval the Commission shall determine that the line is needed and that the corridor or route chosen for the line will avoid or reasonably minimize adverse impact to the greatest extent reasonably practicable on the scenic assets, historic resources recorded with the Department of Historic Resources, and environment of the area concerned. To assist the Commission in this determination, as part of the application for Commission approval of the line, ***the applicant shall summarize its efforts to avoid or reasonably minimize adverse impact to the greatest extent reasonably practicable on the scenic assets, historic resources recorded with the Department of Historic Resources, and environment of the area concerned***.

Routing Process

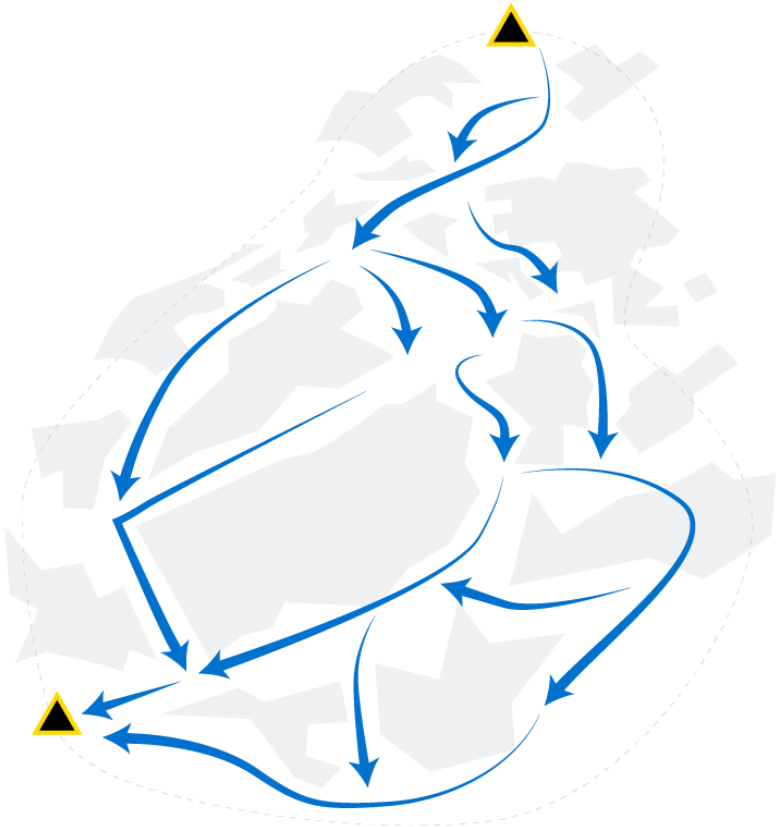
Routing Considerations

- Opportunities
- Constraints
- Engineering/construction
- Identification of potential routes
- Evaluation, comparison, and selection of routes

Routing Process

Considerations

- Does the existing corridor go where you need it to go?
- Is there enough room?
- Has the area adjacent to the corridor been developed or been encumbered?
- Are there other utilities in the corridor?
- Does it make sense to use?



Routing Constraints

Where practical, rights-of-way should avoid the resources listed in the National Register of Historic places, parks, scenic locations, wildlife habitats, and recreational lands.

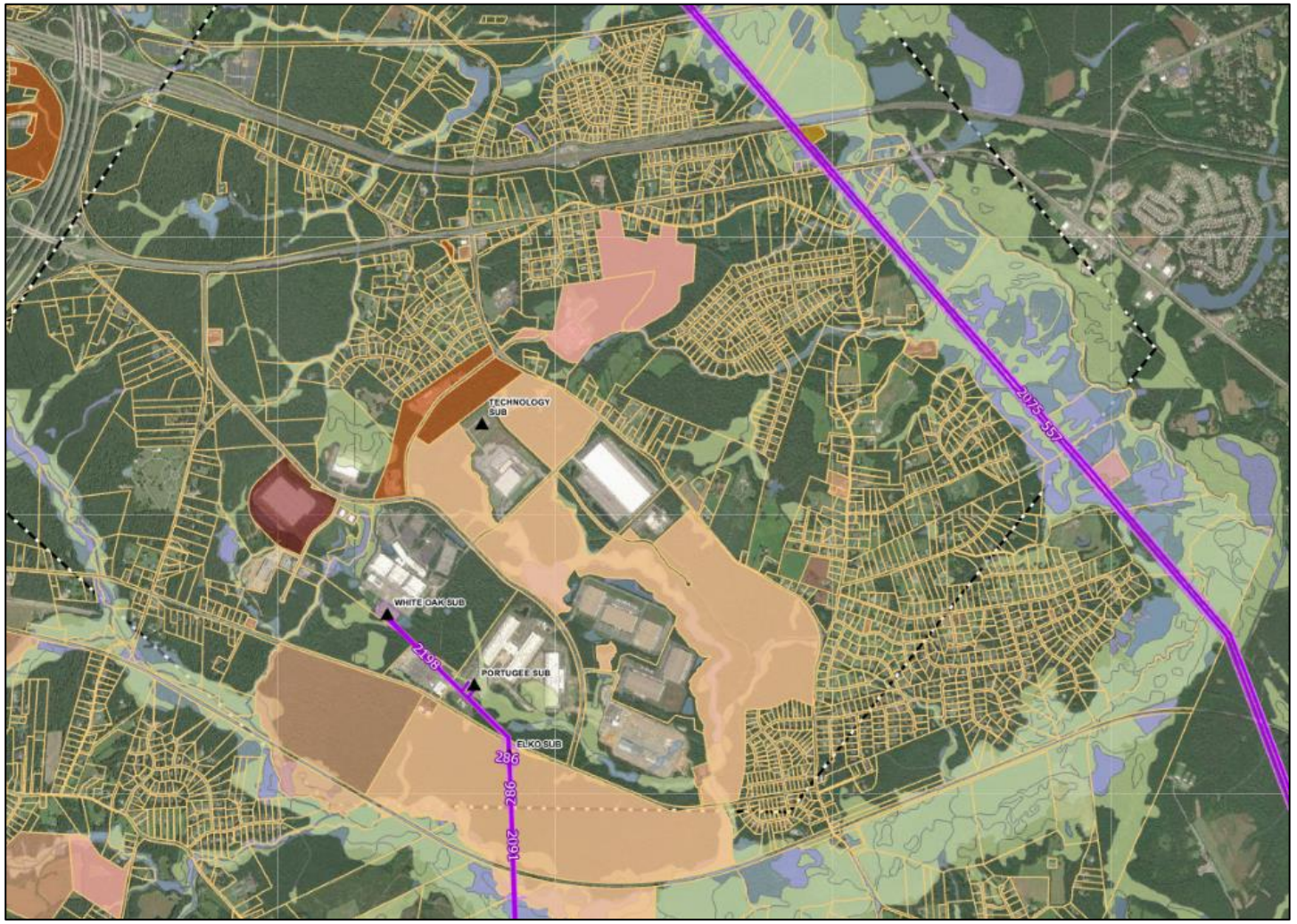
Sensitive Resources

- Wetlands/Waterbodies
- Threatened and Endangered habitats
- Historic properties
- EJ Communities (VEJA)
- Visually sensitive or scenic areas
- Specially managed lands

Routing Constraints

Key Considerations and Constraints:

- Wetlands
- Historic/Cultural areas
- Residential Areas
- Planned Developments
- Conservation Easements
- Government-owned lands



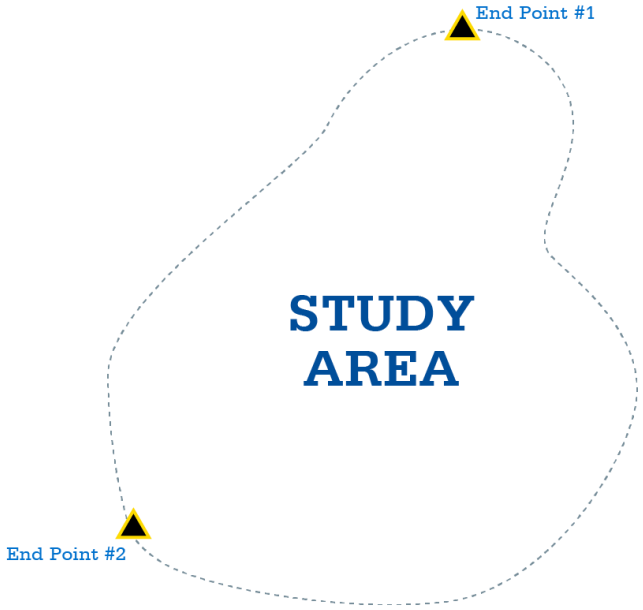
Engineering and Construction Considerations

- Tower height
- Span length
- Right-of-way width and space
- Construction access
- Soil Stability
- Angle structures
- Utility off-sets and crossings
- Underground utilities

Routing Process

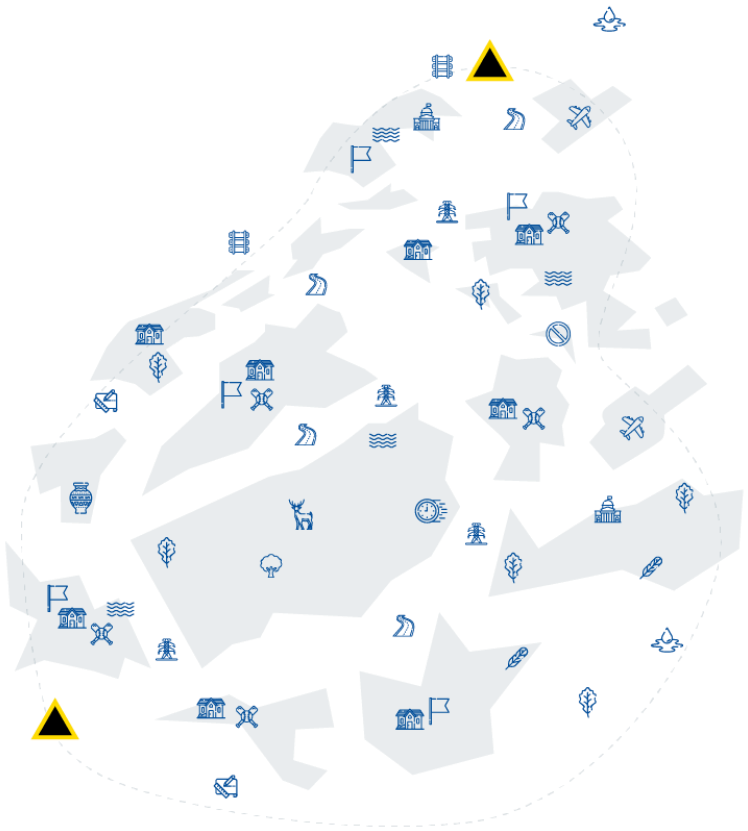
1. Define a Study Area

- Based on project endpoints
- Large enough to include reasonable alternatives
- Collect and review data (GIS, field review)



Routing Process

2. Data Collection and Review

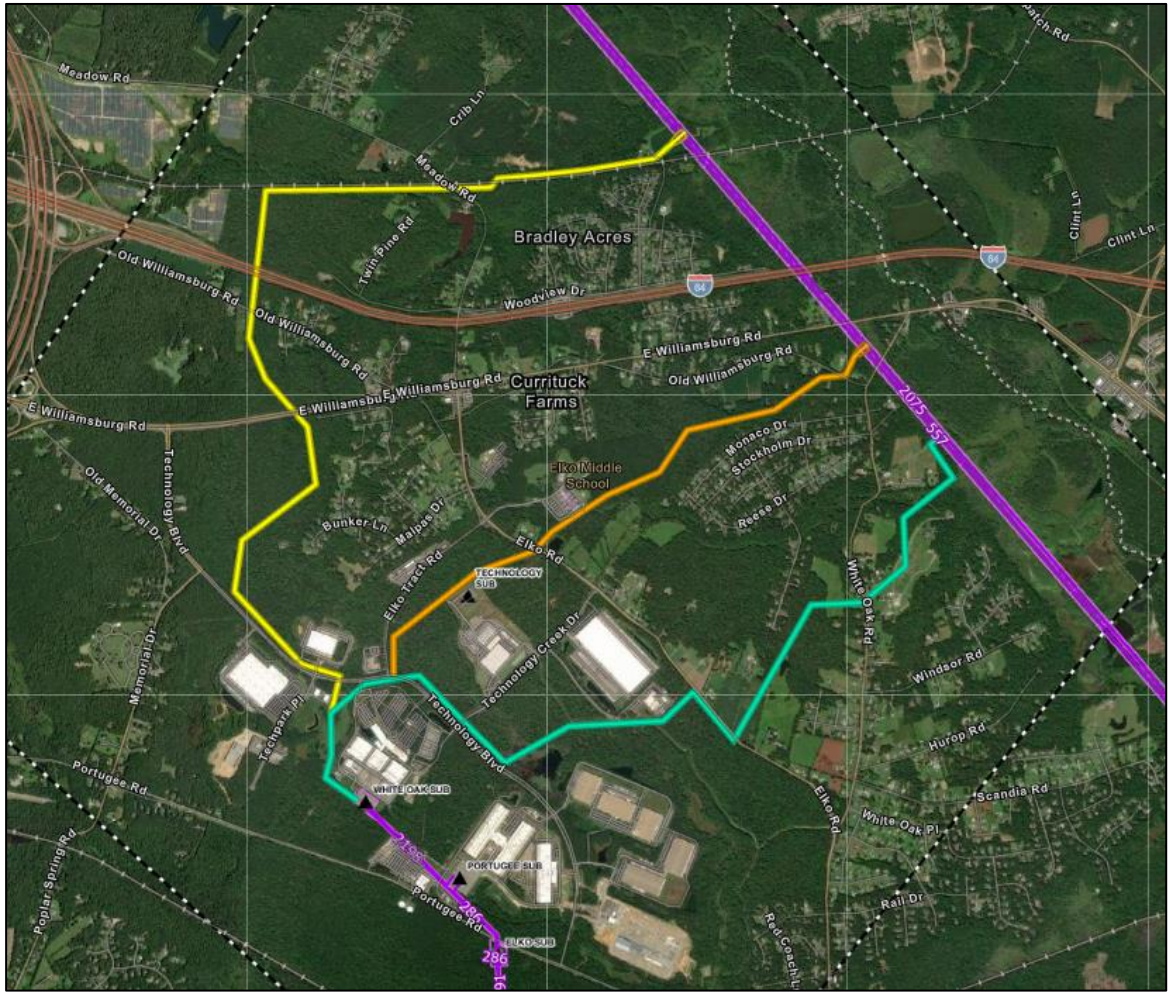


- LAND OWNERSHIP
- COMMUNITY IMPACTS
- HISTORIC RESOURCES
- CULTURAL RESOURCES
- ENVIRONMENTAL IMPACTS
- HABITATS
- WETLANDS
- WATER BODIES
- EXISTING INFRASTRUCTURE
- PROTECTED AREAS
- CONSERVATION AREAS
- PUBLIC USE SPACES
- HIGHWAYS
- RAILWAYS
- AIRPORTS
- GOVERNMENT PROPERTY
- TRIBAL INTERESTS
- ENVIRONMENTAL JUSTICE
- PLANNED LAND USE

Routing Process

3. Identify Potential Routes

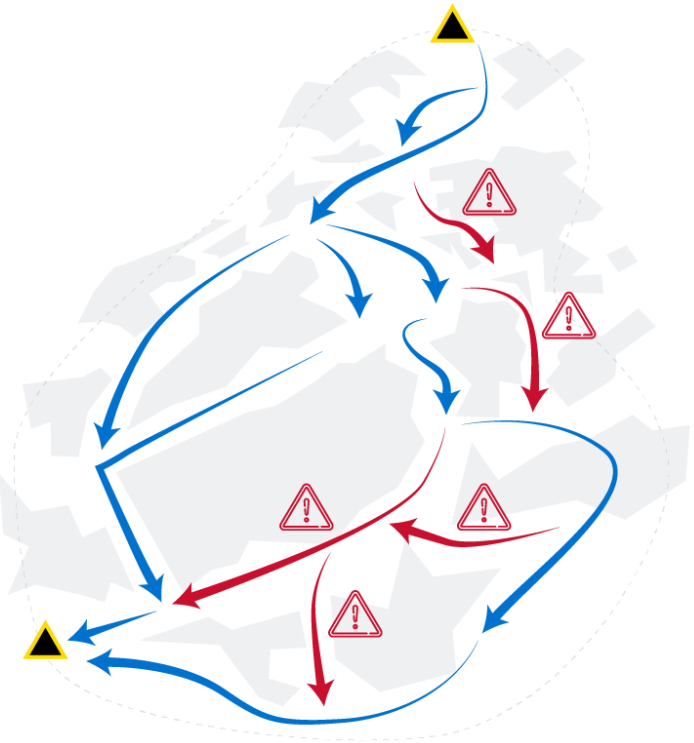
- Identify and map constraints and opportunities
- Adjust study area as needed
- Identify and map possible routes
- Field review and refine routes



Routing Process

4. Stakeholder Input

The information is reviewed with the help of local governments, organizations, landowners, community groups, and other stakeholders to determine if any routes should be eliminated or modified



Routing Process

5. Comparative Evaluation and Selection of Routes

- Quantify features affected
- Evaluate and compare routes
- Consider other factors (visual/scenic, public interest, stakeholder input)
- Select proposed and alternative routes

Routing Process

6. Determine a proposed route and file application

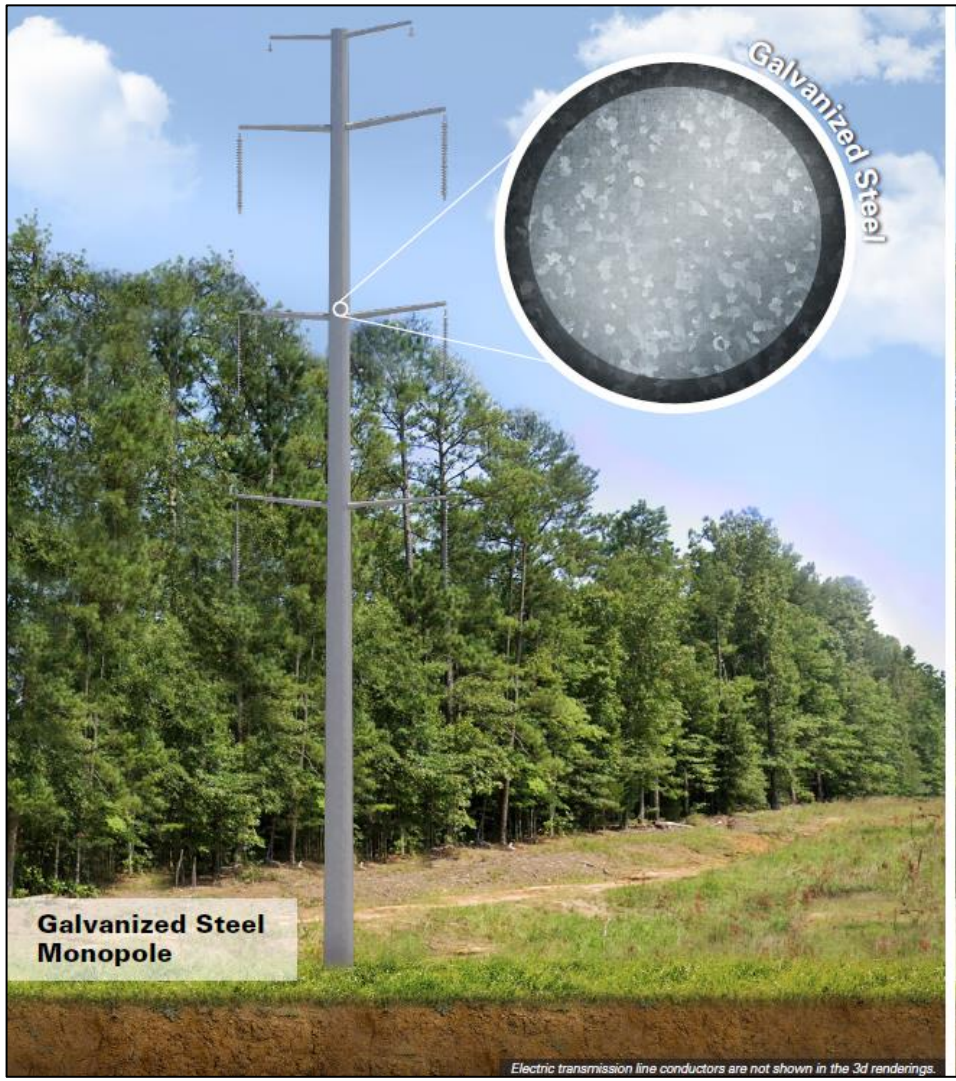
We determine a proposed route after review with stakeholders and with considerations for:

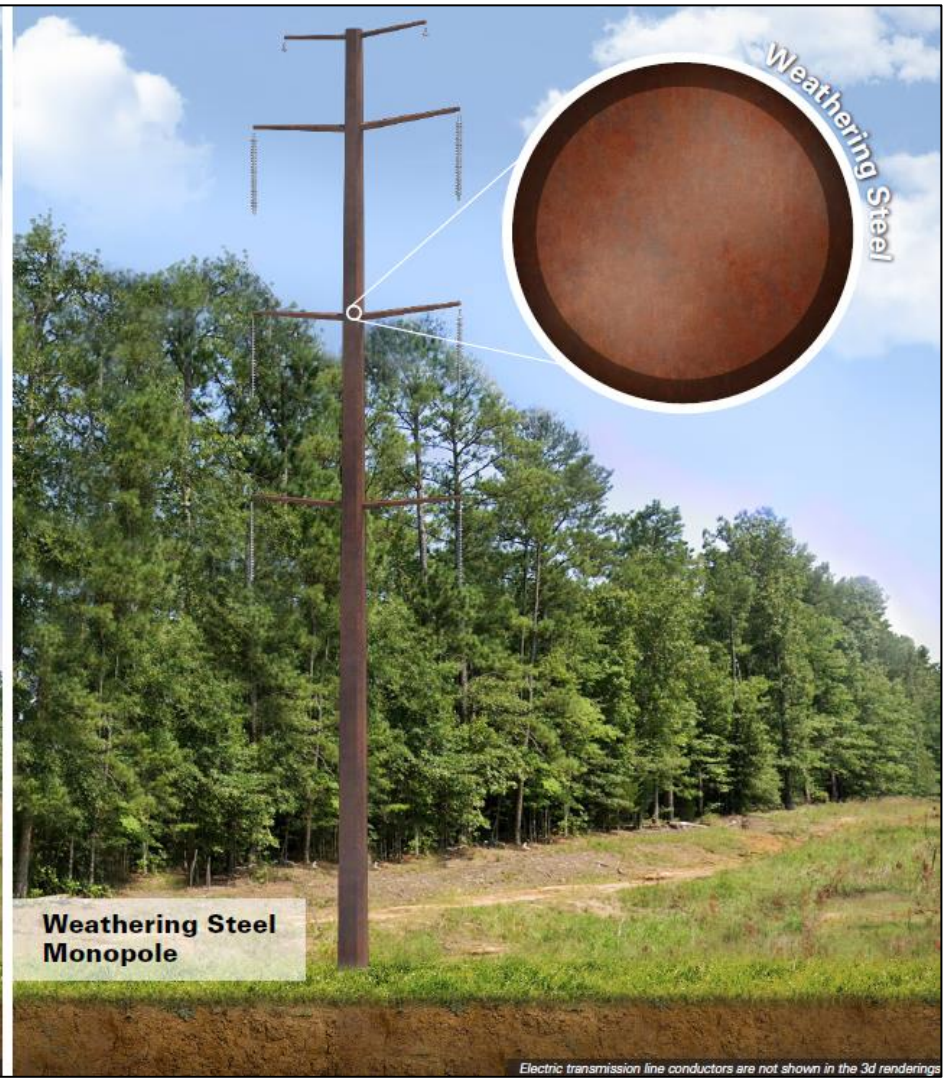
- Cost
- Impacts
- Constructability
- Time to construct

The SCC requires submittal of a proposed route, and refined alternatives

Proposed Structures

- Monopole Structures
- Weathering Steel or Galvanized Steel
- Average height: 110 ft.

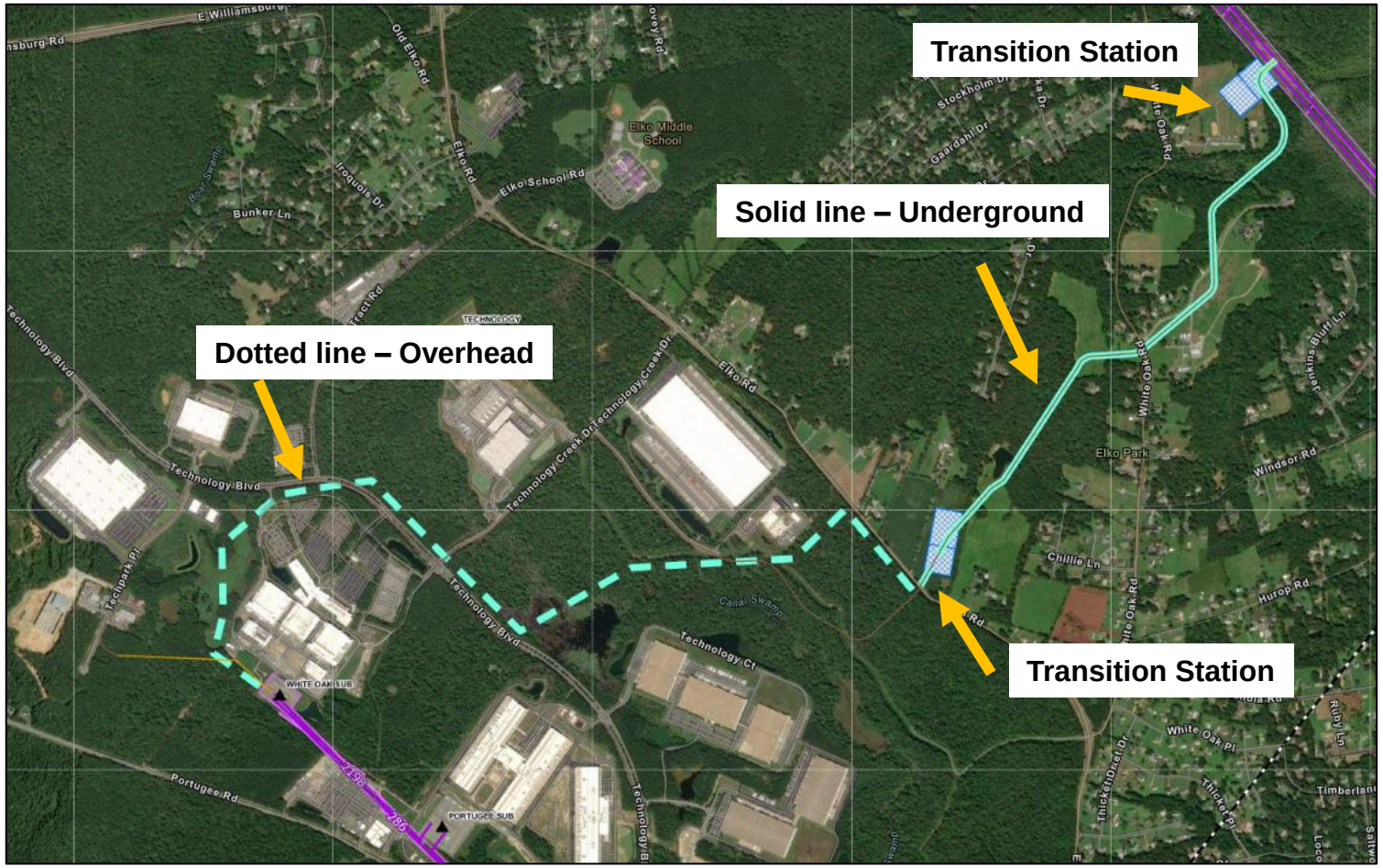




Underground Considerations

Dominion Energy reviewed all electrical options, including overhead, underground and hybrid solutions.

- Began with underground feasibility review
- Hybrid only electrical option
- Wetlands
- Transition Stations



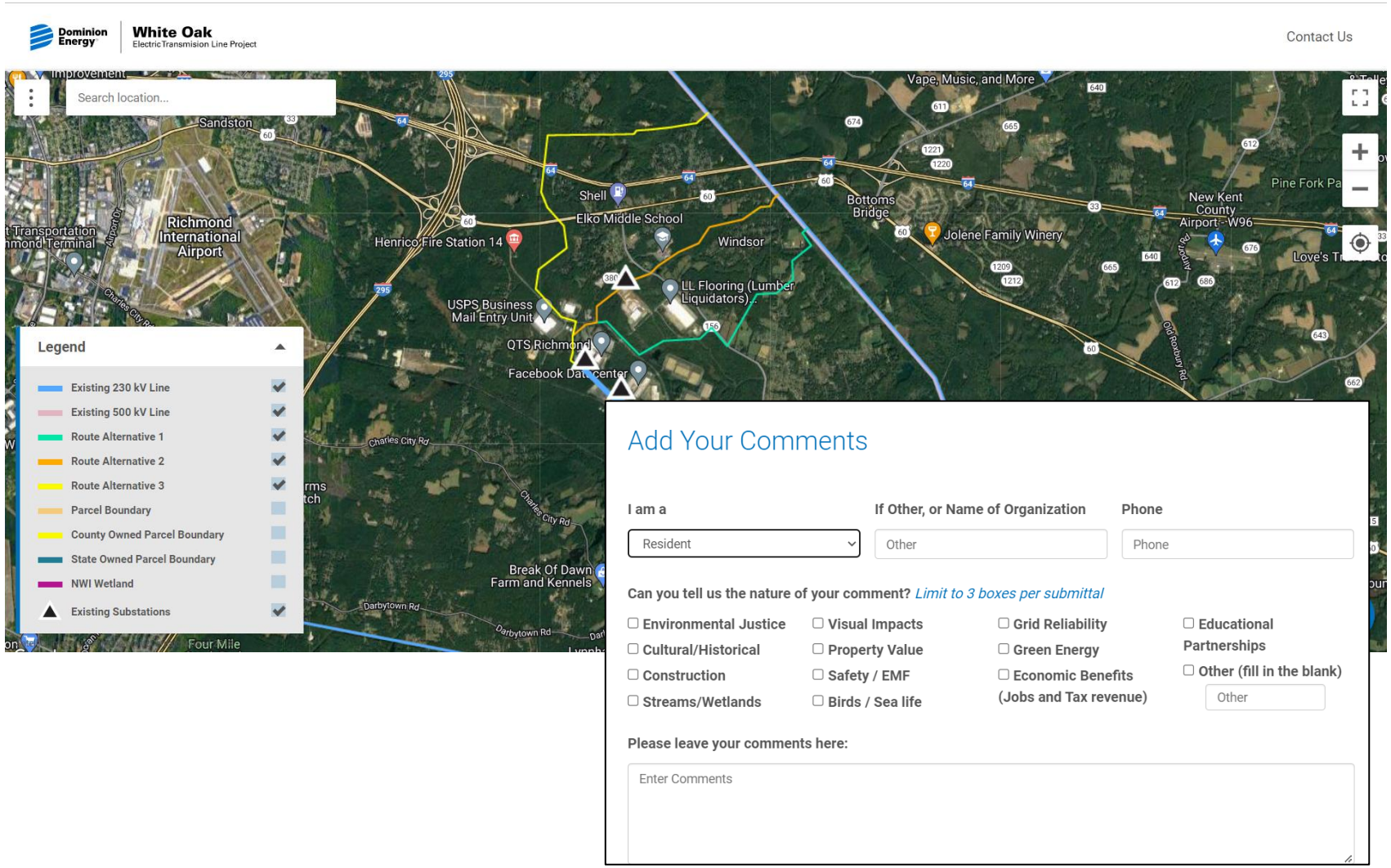
Underground Construction

Electric Transmission Undergrounding: Open Trench Method

Transition station

GeoVoice and Sharing Feedback

- DominionEnergy.com/whiteoak
- Review the study areas
- Interactive mapping tool
- Evolves as routing options are refined
- Add comments, provide input or share insight on the location of important personal concerns or natural and historical resources
- Track project development and receive updates



Timeline

August 2022	• Project announcement, public engagement begins
Fall 2022	• Community Meetings, ongoing public engagement and planning
Late 2022	• File application with SCC
Early 2024	• Anticipated construction start date

** This schedule is subject to change based on permits, etc.*

Q&A Session

- We want to hear from you
- Please use the microphone so everyone can hear your question
- For property-specific concerns, our team is available to speak with you individually after the Q&A session

Have questions after the meeting? Another meeting will be held later this fall.

Contact Us:

Email: powerline@dominionenergy.com
Phone: 888-291-0190
DominionEnergy.com/whiteoak

Thank you!