



# REUSENS-ROANOKE

## TRANSMISSION LINE REBUILD PROJECT

### WELCOME TO OUR VIRTUAL OPEN HOUSE

As a result of the COVID-19 pandemic, Appalachian Power invites you to attend this virtual open house in order to minimize in-person contact. Appalachian Power remains committed to listening to your concerns and answering your questions, but we are also committed to keeping our customers and employees safe and healthy. We welcome your feedback via telephone and email as we strive to make the most informed decisions possible.

# PROJECT NEED

## WHY IS THE PROJECT IMPORTANT TO OUR COMMUNITY?

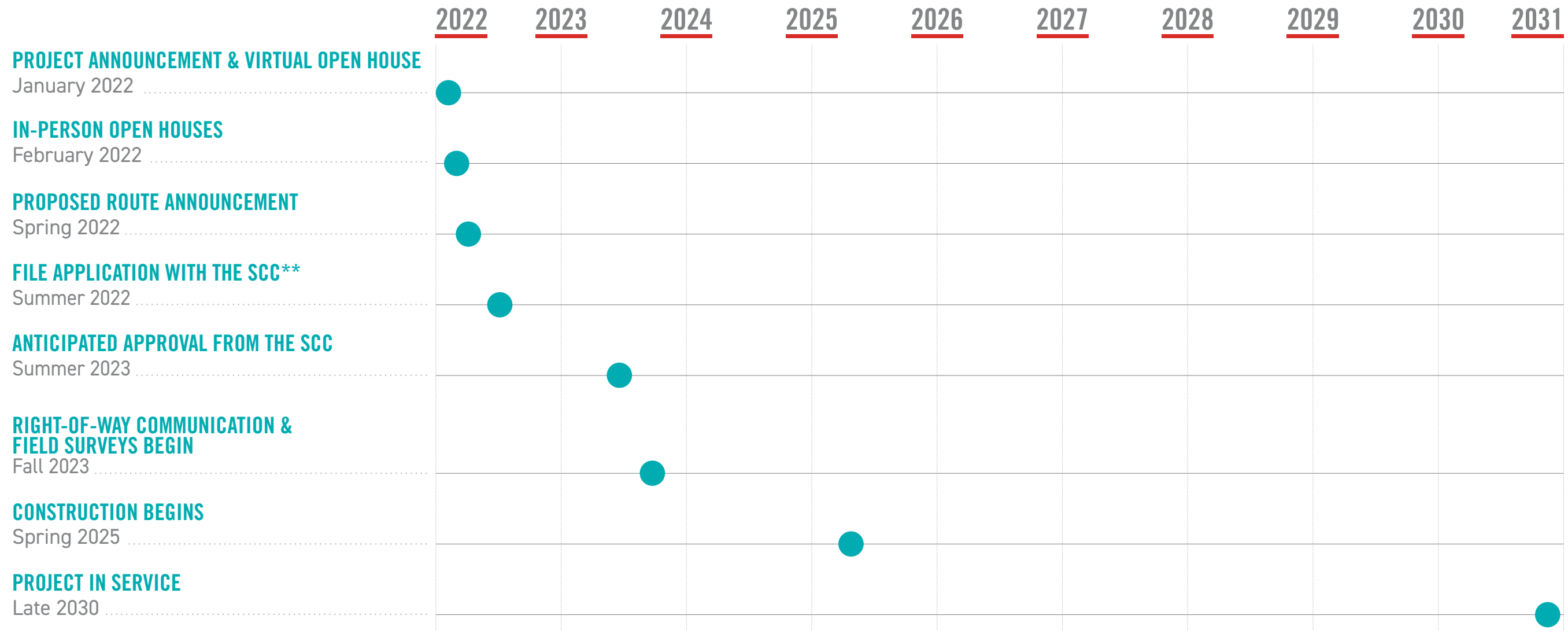
### STRENGTHENS THE LOCAL TRANSMISSION SYSTEM

The Reusens-Roanoke transmission line was originally installed between 1926 and 1933. These upgrades replace aging equipment with modern steel structures, addressing physical condition issues and strengthening the local transmission system.

### IMPROVES SUBSTATION RELIABILITY

Upgrading the Roanoke and Centerville substations replaces aging equipment and updates station configuration, improving reliability and reducing maintenance needs.

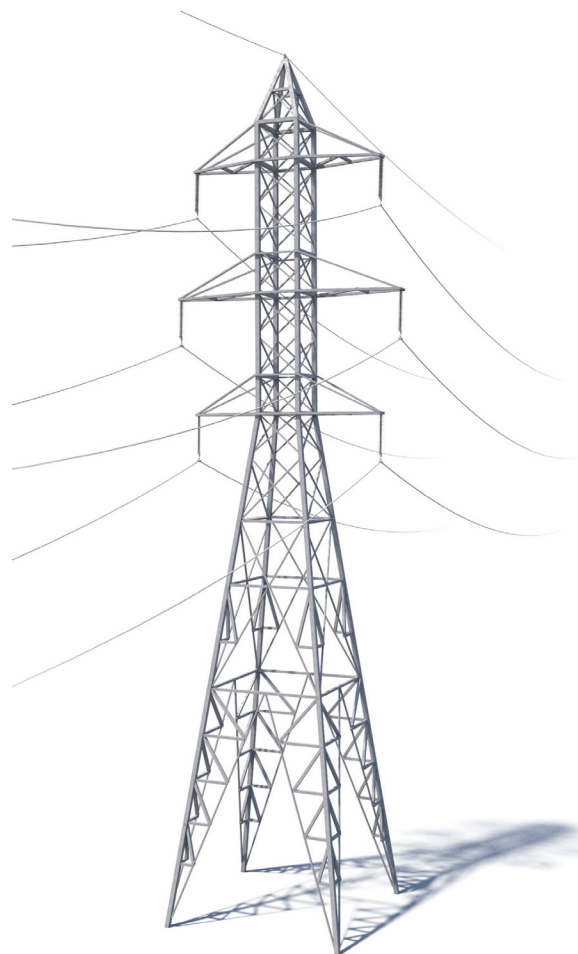
# PROJECT SCHEDULE



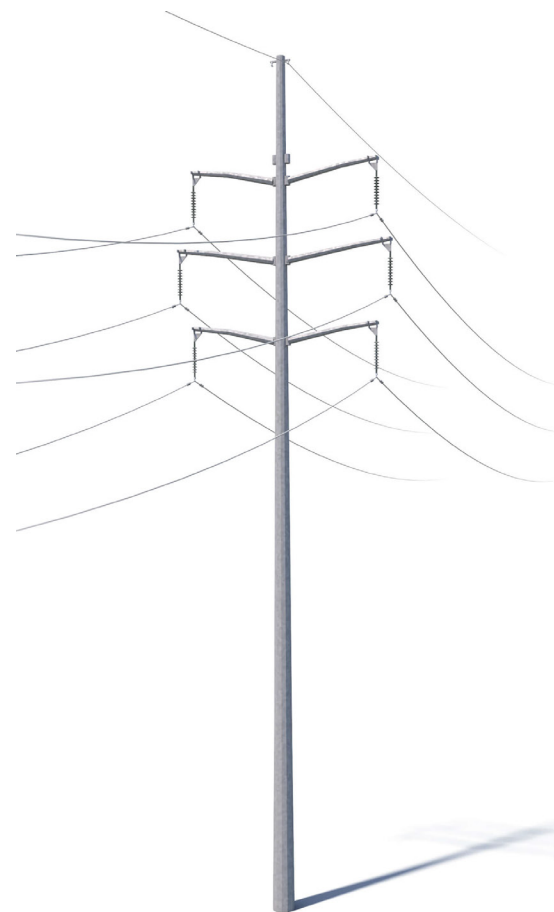
\*Timeline subject to change

\*\*Virginia State Corporation Commission

# PROPOSED STRUCTURES



LATTICE TOWER



SINGLE POLE

Most of the existing line consists of lattice towers. Crews plan to rebuild the line using lattice towers and single poles. The proposed structures are an average of 35 feet taller than the existing structures.

Proposed Structure Height: **Approximately 100-170 feet\***  
Right-of-Way Width: **Approximately 60-100 feet\***

At Appalachian Power, we are committed to meeting the energy needs of customers while protecting the environment and natural beauty of the region.

\*Exact structure, height and right-of-way requirements may vary

# RIGHT-OF-WAY

**APPALACHIAN POWER HAS TWO KEY PHILOSOPHIES THAT PERTAIN TO POWER LINE RIGHTS-OF-WAY:**



**1** Routes should cause the least possible disturbance to people and the environment, and



**2** Property owners should be fairly compensated for any land rights that must be acquired.

# RIGHT-OF-WAY

Appalachian Power studies the land and, wherever possible, proposes routes that reduce impacts on property owners. Appalachian Power reaches out to landowners in the following ways:

## TO GAIN RIGHT-OF-ENTRY TO BEGIN:

- Environmental assessments
- Appraisal work
- Land surveying, soil boring and below grade study
- Cultural and historic resource reviews

## TO SECURE RIGHT-OF-WAY AND COMMUNICATE:

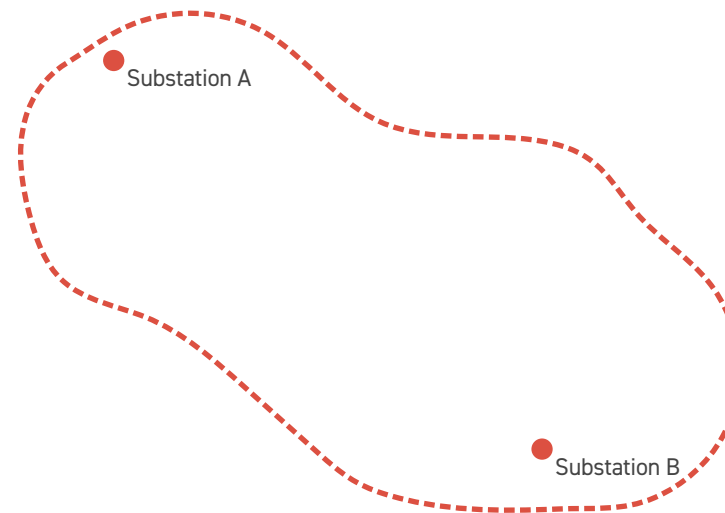
- Landowner compensation
- Terms and conditions of easement
- Width of the right-of-way

## TO OUTLINE APPALACHIAN POWER'S CONSTRUCTION PROCESS WITH A SPECIFIC FOCUS ON:

- Property restoration
- Damage mitigation as appropriate

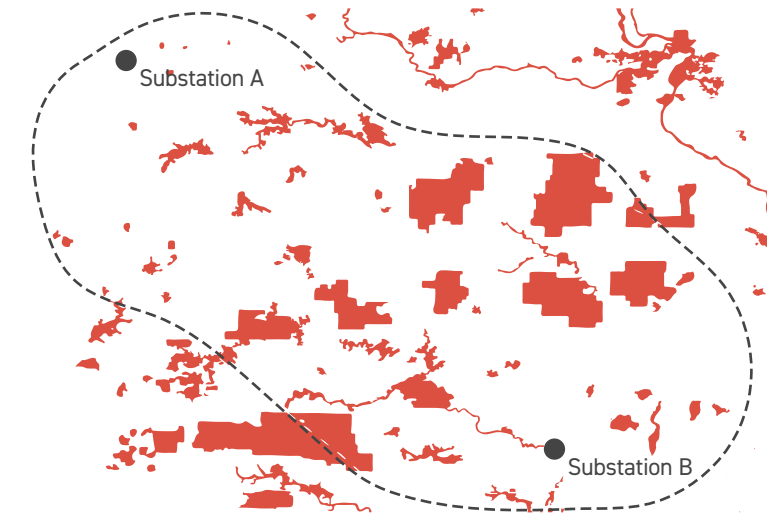
# ROUTING PROCESS

Appalachian Power implements a comprehensive siting process that takes into account land use, the environment, public input, and engineering guidelines to develop a transmission line route. This process is inherently iterative with route segments changing over time as more information is gathered. Below is a discussion of the terminology used at each stage in the process.



## 1) STUDY AREA

Appalachian Power develops a Study Area for the Project that incorporates the two end points and the area in between.

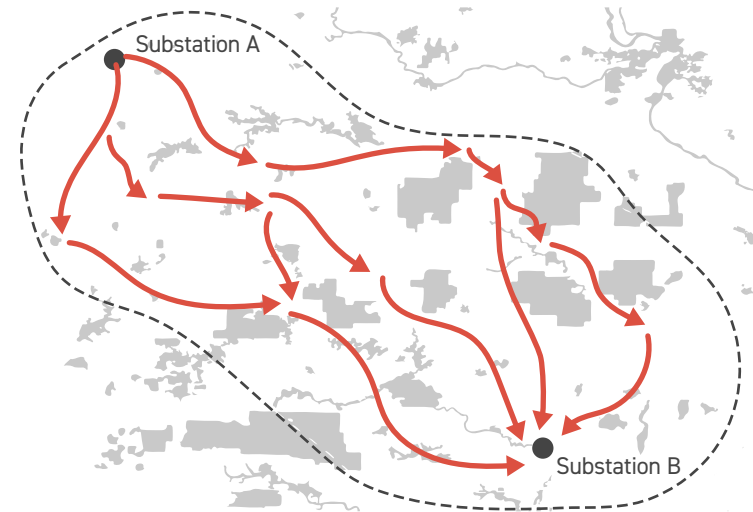


## 2) DATA GATHERING

Data is gathered for the defined study area including environmental, land use, historic and cultural resources, existing infrastructure and sensitive areas.

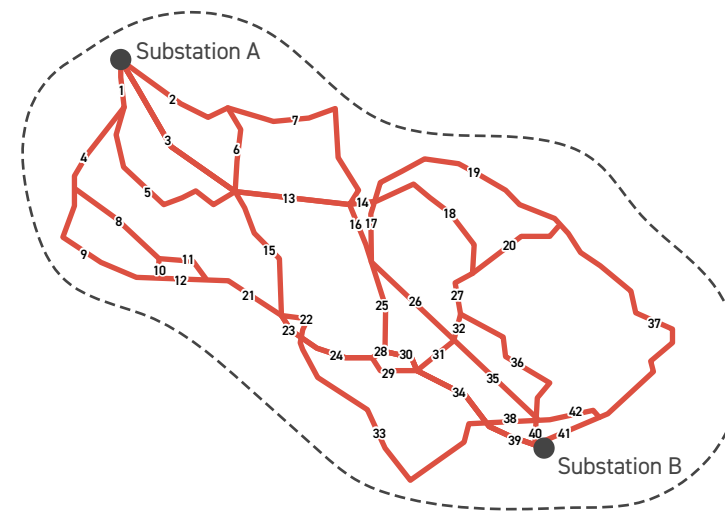


# ROUTING PROCESS



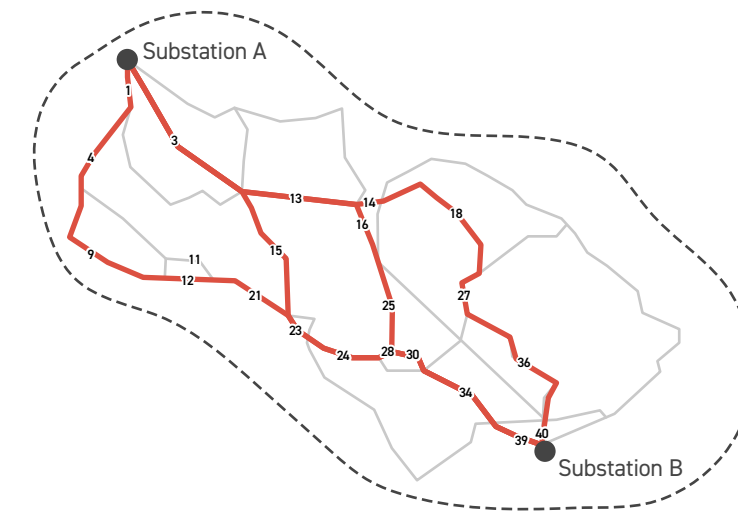
### 3) CONCEPTUAL ROUTES

The Routing Team uses this information to develop Conceptual Routes adhering to a series of general routing and technical guidelines.



### 4) STUDY SEGMENTS

Where two or more Potential Study Segments intersect, a node is created, and between two nodes, a link is formed. Together, the network formed by these links is referred to as Potential Study Segments.



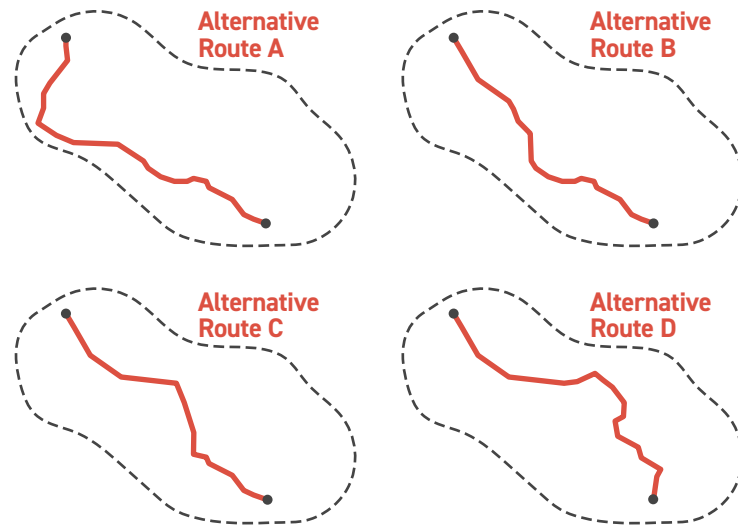
### 5) REFINED STUDY SEGMENTS

As more information is gathered, the Study Segments are refined. Some Study Segments are eliminated or modified, leaving the Refined Study Segments for further consideration



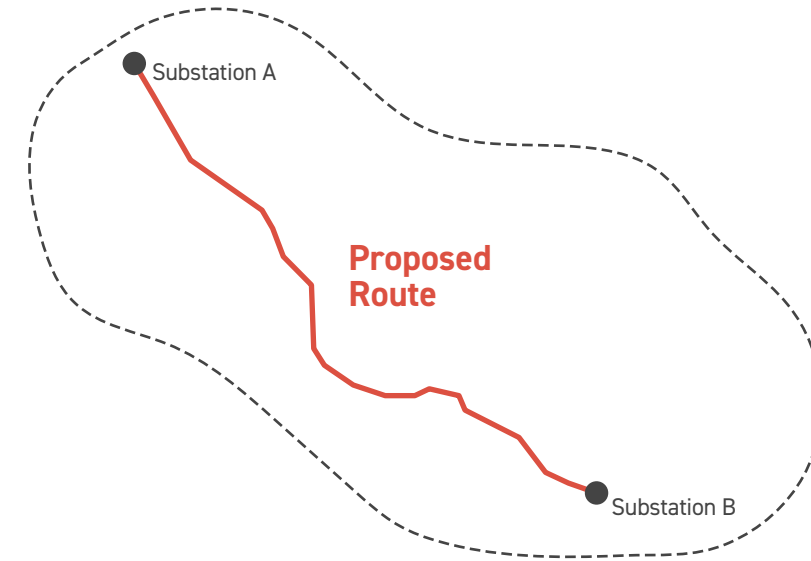


# ROUTING PROCESS



## 6) ALTERNATIVE ROUTES

After public input is incorporated, the Refined Study Segments are further evaluated and a selection of the most suitable segments is assembled into Alternative Routes.



## 7) PROPOSED ROUTE

Potential impacts are assessed and compared with land uses, natural and cultural resources, and engineering and construction concerns for all the Alternative Routes. Ultimately, a Proposed Route is selected that minimizes the effect of the Project on the natural and human environment, while avoiding circuitous routes, extreme costs, and non-standard design requirements.

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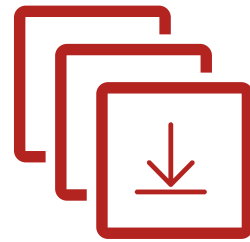
## TRANSMISSION LINE REBUILD PROJECT

### THANK YOU!

Thank you for visiting the project virtual open house. For more information and project updates please visit the project website, or contact us with any additional questions.



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OPEN HOUSE**



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