

Welcome

Scottsbluff Power Project Open House Meeting

September 2022

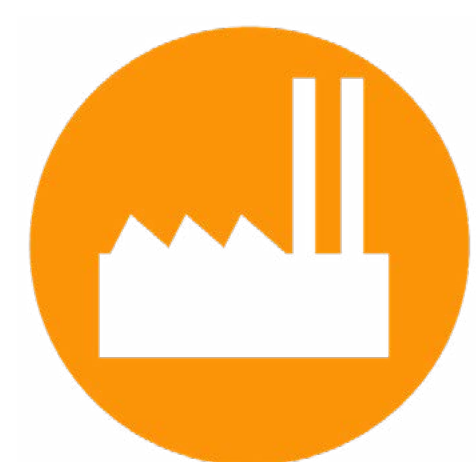


Nebraska Public Power District
Always there when you need us

Who We Are

Nebraska Public Power District is the state's largest electric generating utility and has been providing dependable and affordable electricity for more than half a century. NPPD currently serves all or parts of 84 of the state's 93 counties.

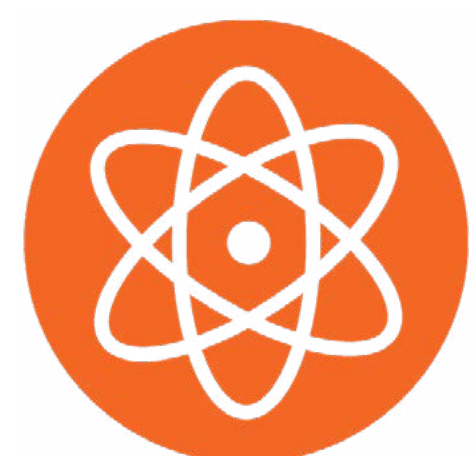
- Governed by an elected 11-member Board of Directors
- Serves both retail and wholesale customers
- Over 62% of Nebraska customer-generation resources are carbon-free
- Utilizes a diverse mix of generation resources including:



Coal



Wind



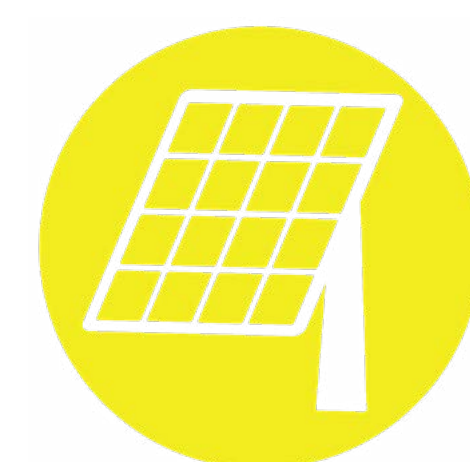
Nuclear



Diesel/other



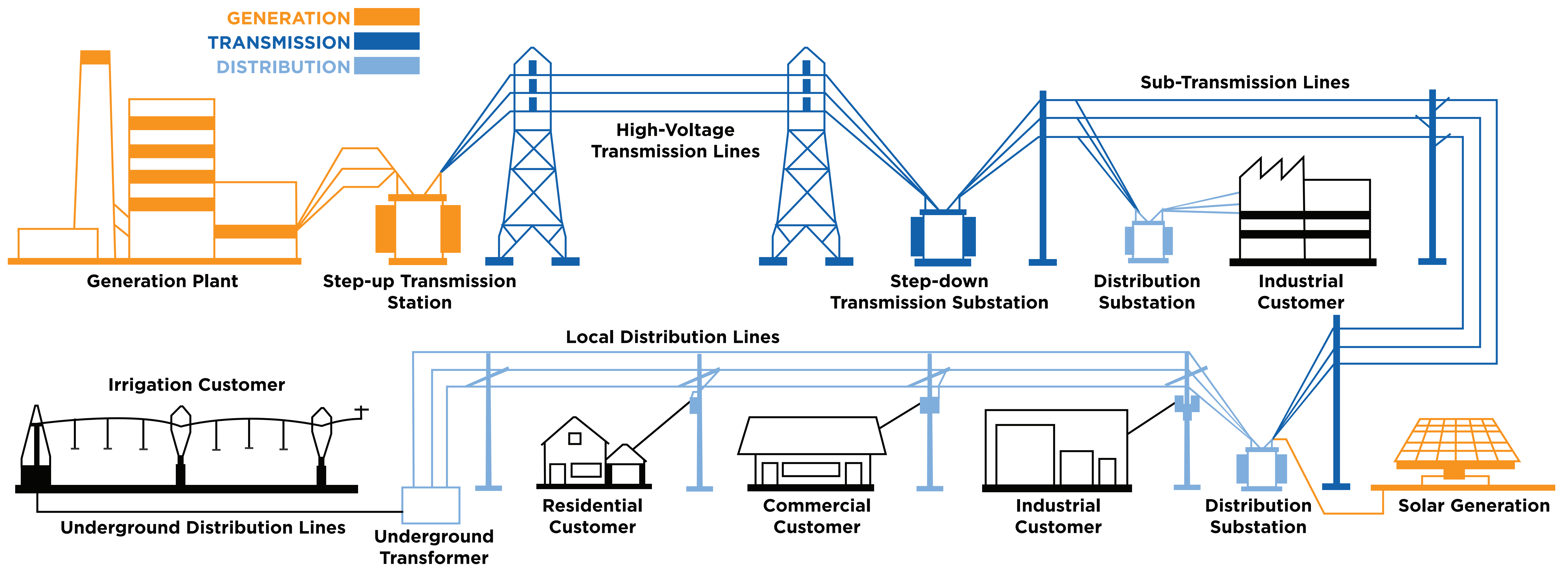
Hydroelectric



Solar



The Path of Electricity

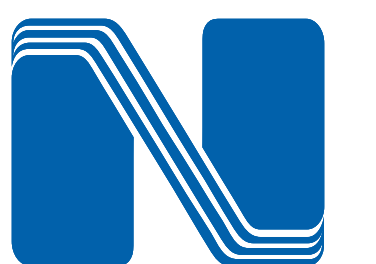
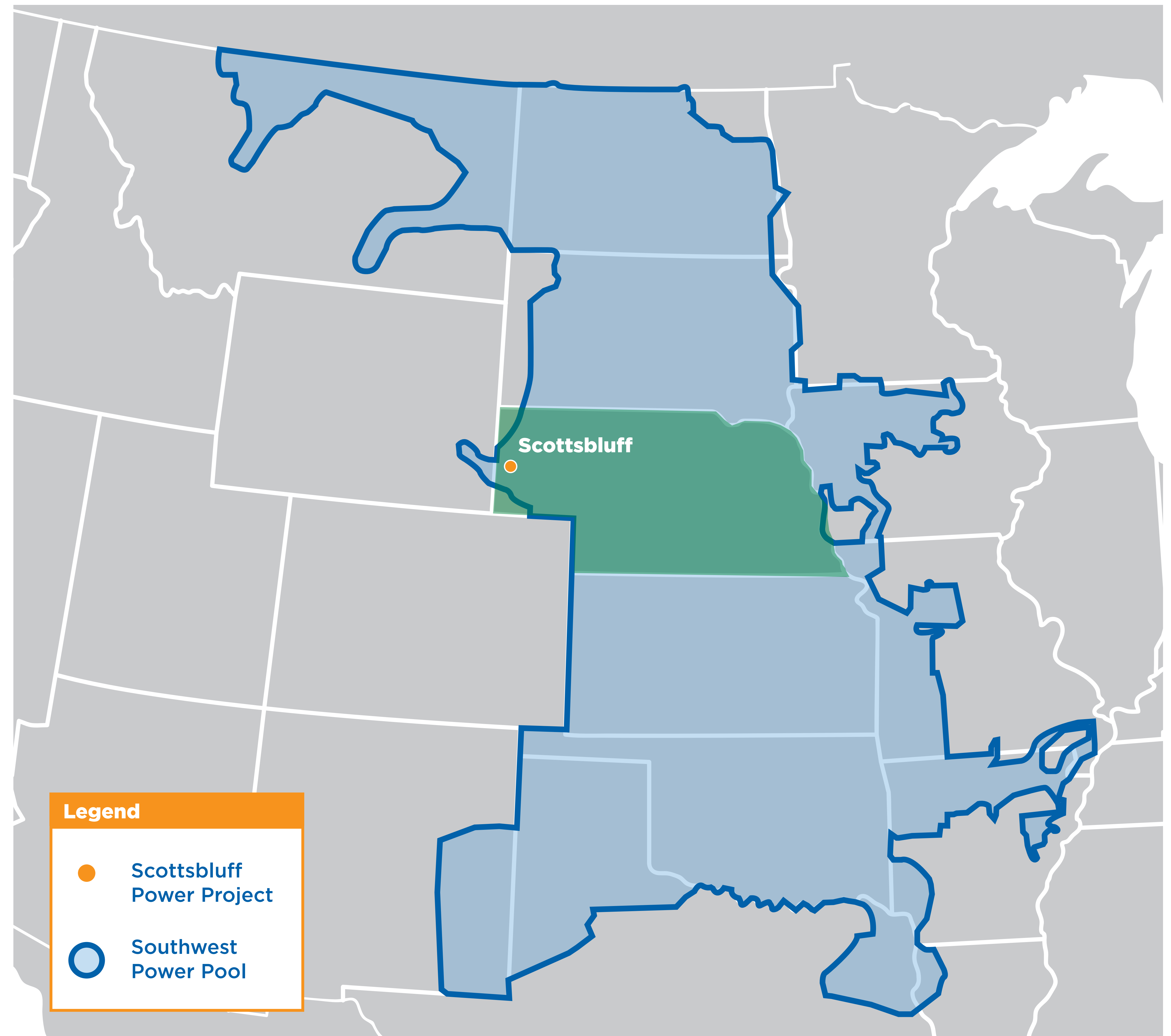


From the power plant, electric energy is delivered through a series of lines and substations where the voltage is reduced to the proper level for end-use customers.



Southwest Power Pool

NPPD has been a member of the Southwest Power Pool (SPP) since April 2009. The SPP's primary focus is to ensure reliable power supplies, adequate transmission infrastructure, and competitive wholesale electricity prices. This project will help to strengthen the SPP electric system in locations where load use and projected growth is reaching critical levels.



Project Description

With the Scottsbluff Power Project, NPPD plans to build an approximately seven to ten-mile, 115 kV transmission line to provide a necessary second path between the city's two load delivery substations.



The new line will increase the transmission system capacity to meet electrical demand, reduce congestion, and further enhance the reliability and resiliency of the Scottsbluff and western Nebraska areas.



Purpose & Need

The City of Scottsbluff is currently served by two 115 kV substations, with only one existing transmission line connecting the two. This single transmission line is subject to heavy congestion and regional power flows within NPPD and SPP. In exploring several options, NPPD and SPP determined a 115 kV transmission line from the Scottsbluff substation to the Victory Hill substation will accommodate current and projected future loads. The new line will complete a 115 kV transmission line “ring” around the city, reducing congestion on existing transmission facilities and providing additional reliability and resiliency of load delivery service in the area.



Routing, Siting, and Public Involvement

Routes for a transmission project are typically developed over the course of several phases and are then narrowed down to a final route. For this project, we will determine the route over the course of three phases:

Phase 1

- Identify preliminary route segments
- Host Public Open House #1



Phase 2:

- Determine preferred and alternate routes using input from landowners and considering constraints
- Host Public Open House #2

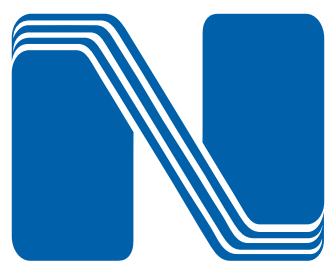
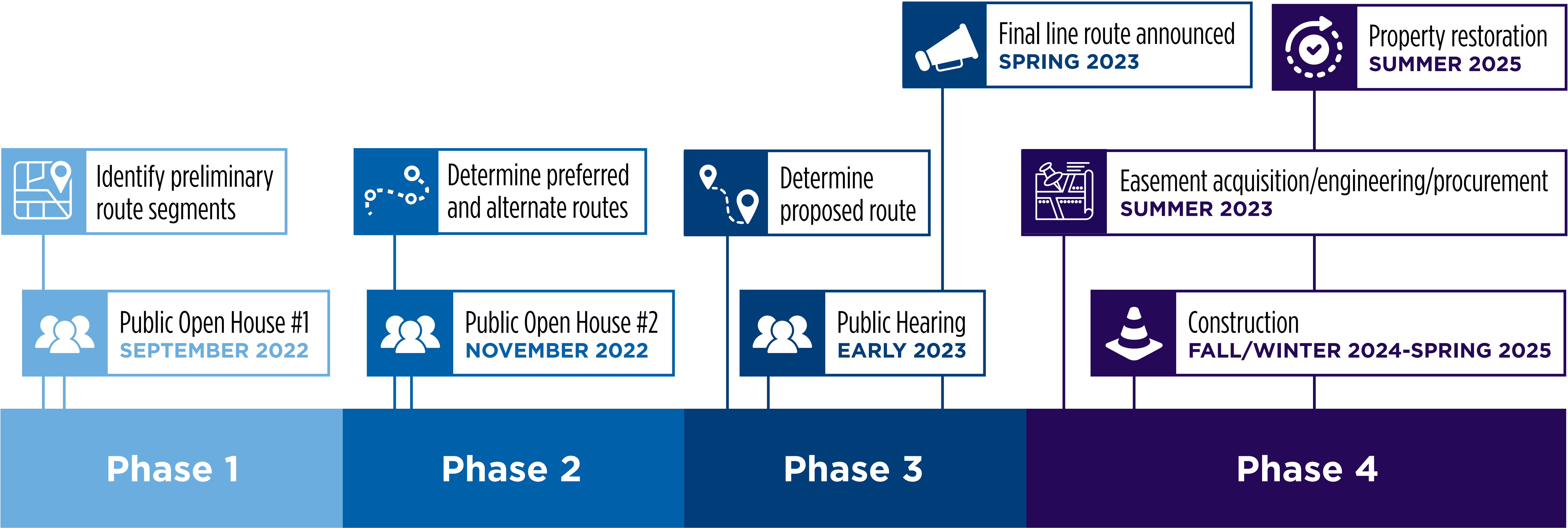


Phase 3:

- Determine proposed route
- Host Public Hearing
- Announce final line route no earlier than 30 days after the Public Hearing



Project Schedule



Project Area Map



Routing & Siting Evaluation Criteria

Transmission line routing involves trade-offs between a variety of factors called routing criteria. The most promising route options balance each of the three types of criteria, which are social, environmental, and engineering.

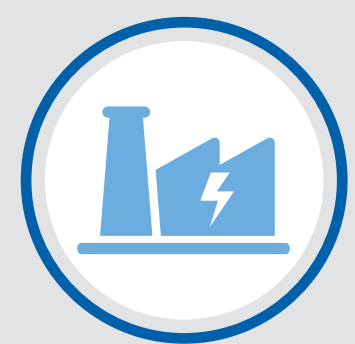
Social



Businesses



Cemeteries



Commercial/
Industry



New/Plotted
Developments



Residences/
Homes



Places of
Worship



Agriculture



Schools



Parks &
Recreation

Environmental



Floodplains



Wooded
Areas



Wetlands/
Waterways



Conservation
Areas



Federal &
State Lands



Historic &
Archaeological
Sites



Threatened &
Endangered
Species

Engineering



Airports



Railroads



Irrigation/
Pivots



Wells



Existing
Infrastructure



Site
Topography



Constructability



Highways



Structures
(other)



Existing/Planned
Utilities



Cost



Environmental Resources

Environmental resources are evaluated as part of the route selection process and may include:

- Agricultural lands
- Recreational areas
- Water resources (lakes, streams, wetlands, and floodplains)
- Wildlife habitat areas
- Sensitive, threatened and endangered species
- Cultural and historical resources
- Visual resources

NPPD coordinates with federal, state, and local agencies and organizations such as:

- Federal Aviation Administration
- U.S. Fish and Wildlife Service
- U.S. Army Corps of Engineers
- Nebraska Game and Parks Commission
- Nebraska Department of Environment and Energy
- Nebraska Department of Transportation
- Natural Resource Districts
- History Nebraska
- Local Airport Authorities
- Private Non-Government Organizations

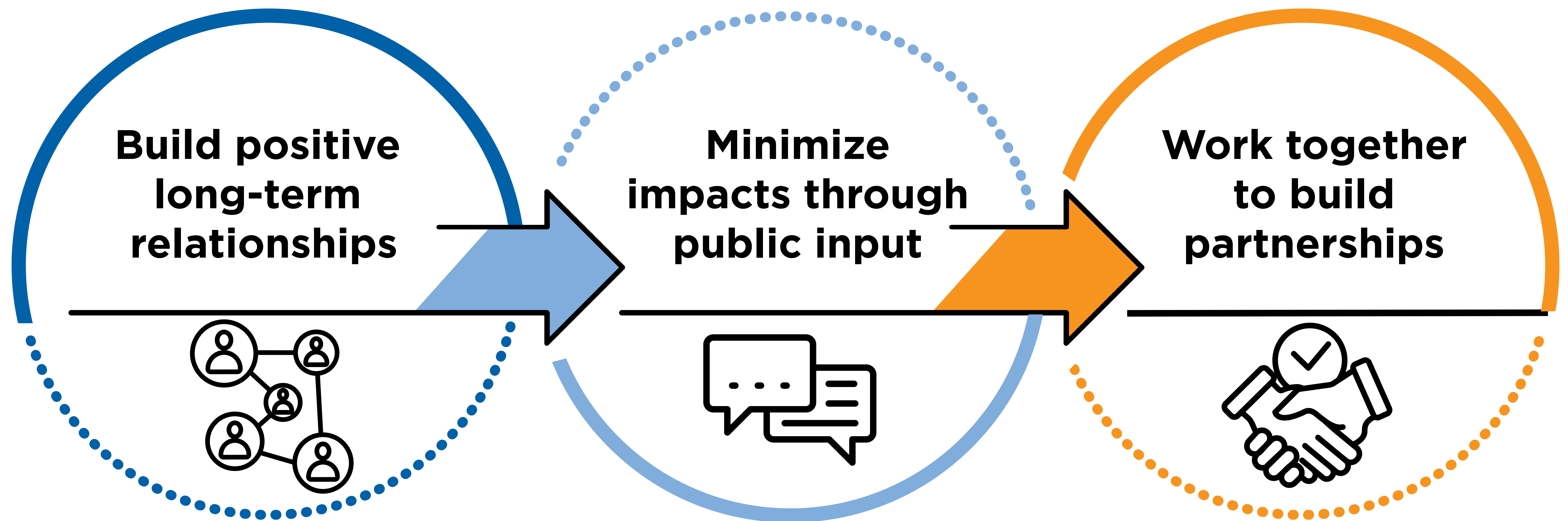


Criteria Prioritization Exercise

Instructions: You have a total of three dot stickers. Please place them in the box(es) next to the criteria you believe should be prioritized as we determine the route for this transmission line.

Businesses
Cemeteries
Commercial/Industry
New/Plotted Developments
Residences/Homes
Places of Worship
Agriculture
Schools
Parks & Recreation
Floodplains
Wooded Areas
Wetlands/Waterways
Conservation Areas
Federal & State Lands
Historic & Archaeological Sites
Threatened & Endangered Species
Airports
Railroads
Irrigation/Pivots
Wells
Existing Infrastructure
Site Topography
Constructability
Highways
Structures (other)
Existing/Planned Utilities
Cost

Building Relationships



Right-of-Way Activities

We strive to build positive, long-term relationships with landowners and tenants during right-of-way activities.

Right-of-Entry Agreement - if needed, will provide access for:

- Environmental assessments
- Appraisal work
- Survey activities
- Cultural and historical resource assessments

Easement Acquisition:

- Compensation
- Terms and conditions
- Right-of-way width

Post Construction:

- Construction damage compensation
- Property restoration



Easement Compensation

Easement Compensation

80% of the fee value of the easement area
in addition to structure payment

Structure Payment

\$100

per single pole
(steel or wood)

\$100

per anchor

\$250

per H-Frame
(steel or wood)

Payment for any special consideration, such as shelterbelts, fences, gates, etc., will be determined on a case-by-case basis.

Construction Damages

In addition to the easement payment, the property owner or tenant will be compensated for any damages to crops, fences or other property that may occur during construction or when maintenance is required in the future.

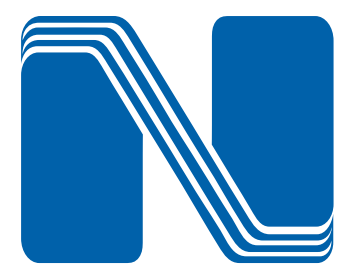


Transmission Line Structures

There are three typical types of structures that would be used on this project:

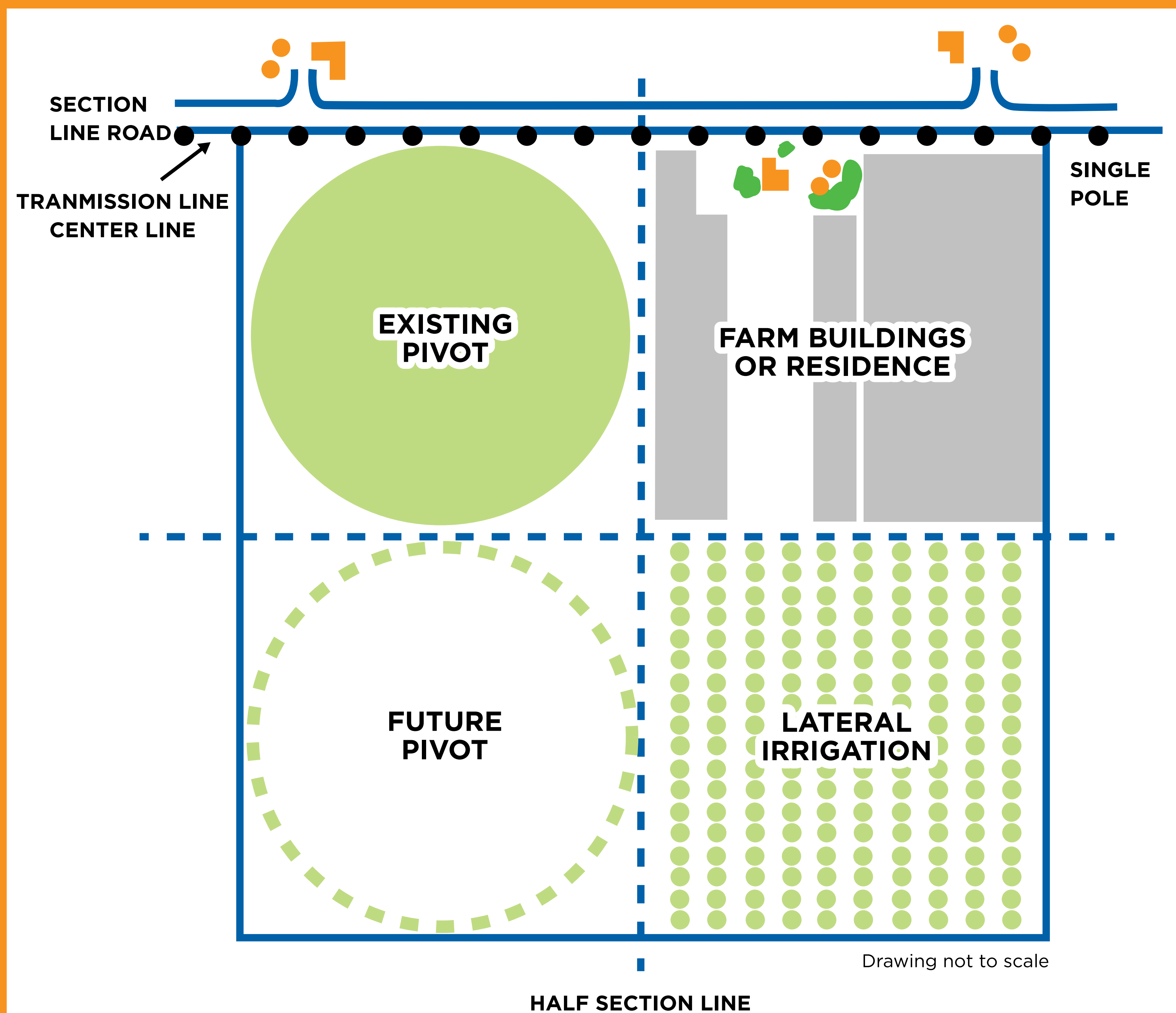
- 115 kV single-pole wood structure
- 115 kV single-pole steel structure
- 115 kV two-pole or H-frame wood structure (not pictured)

TYPICAL SINGLE-POLE STRUCTURES

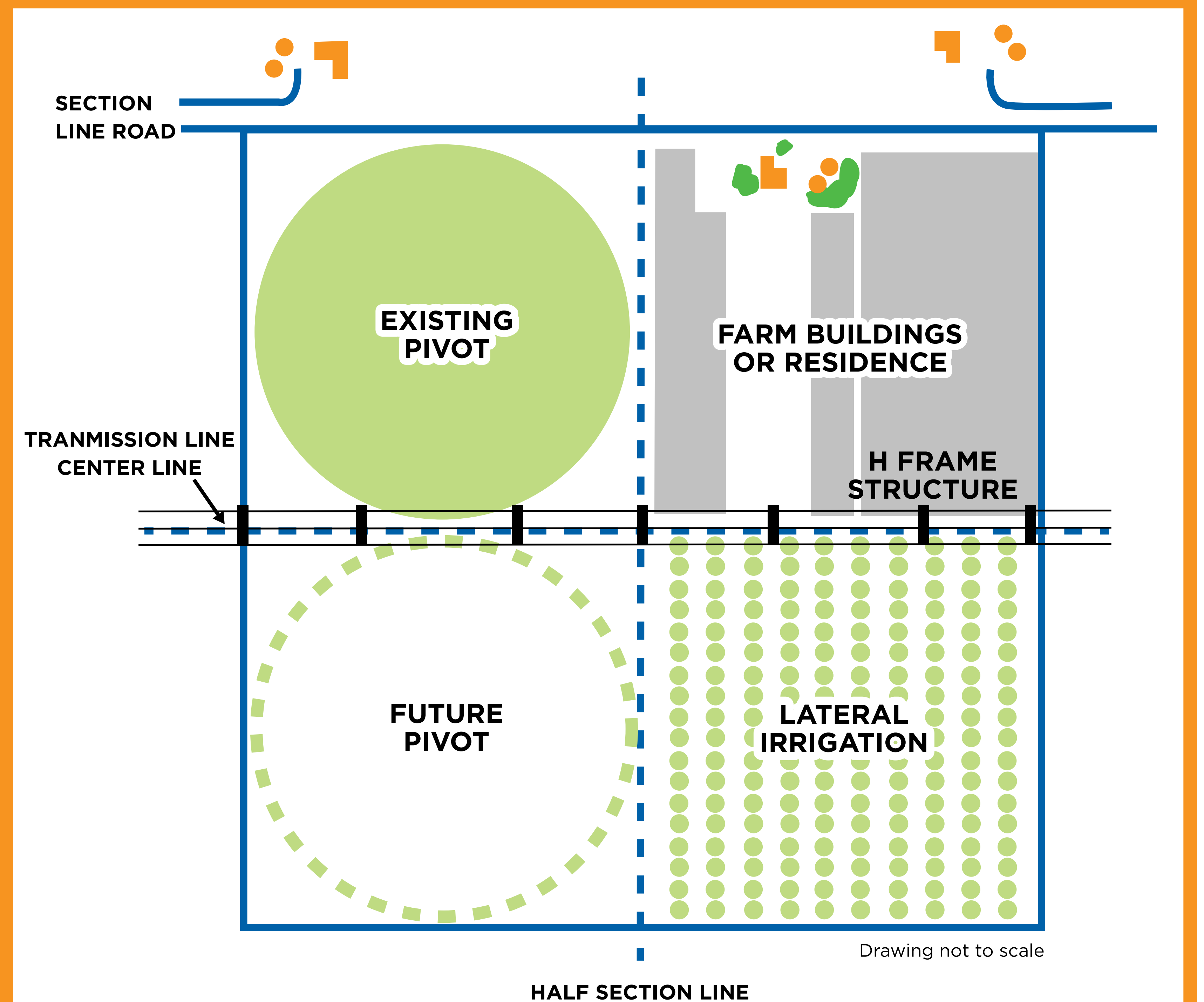


Typical Structure Locations

115 kV Single Pole Structure Placement: Typically ~ 15 structures per mile



115 kV “H” Frame Structure Placement: Typically ~ 7 structures per mile



Input Needed!

Help us identify constraints and opportunities regarding:

- Residences
- Grain bins and outbuildings
- Planned (permitted) housing units
- Platted subdivisions
- Well locations
- Gravity flow irrigation and flow direction
- Terraces and drain tiles
- Planned pivots and water permits
- Underground facilities
- Future land-use
- Cemeteries, churches, and schools
- Commercial and industrial development
- Communication towers
- Cultural and historical resources
- Environmental areas

What should we know about your property?



Stay Involved

Thank you for attending! You can stay involved with the Scottsbluff Power Project by following project news in NPPD newsletters, newspapers, radio, and on social media, or by visiting our website at scottsbluffpower.nppd.com.



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