February 2025

PACIFIC POWER

Blueprint South

500-kV Transmission Line Project

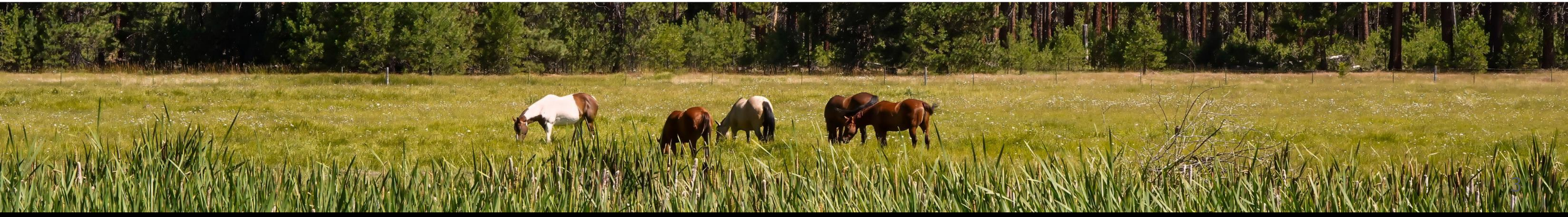
Service Territory

- Pacific Power is one of two business units of PacifiCorp, owned by Berkshire Hathaway Energy.
- The Company is a utility regulated by the federal and state governments.
- Service territory - southern Washington, Oregon, and northern California.
- The Company serves approximately 243 communities in its service territory.

Blueprint South Study Area

Project Need

- Upgrade the existing transmission system backbone to enable integration of new generation resources and large-load additions from Pacific Northwest and Intermountain region interconnections.
- Continue to provide reliable service to customers in southern Oregon.
- Compliance with transmission system reliability standards.
- Serve third-party network customers when capacity is available.
- Provide operational flexibility for the bulk transmission system.



Project Components

- Study Area
- Substation Interconnection Point

Substation Siting Areas

- Chiloquin[1]
- Full Circle

Reference Features

- Major Highway
- Main Road
- State Boundary
- County Boundary
- Waterbody

Jurisdiction

- Bureau of Land Management
- National Park Service
- US Fish and Wildlife Service
- US Forest Service
- Other Federal
- State
- Private or Local

[1] Substation being sited as part of this study.

Full Circle

Prineville

Bend

LANE

CROOK

DESCHUTES

Burns

DOUGLAS

LAKE

HARNEY

Chiloquin

KLAMATH

Klamath Falls

Snow Goose

Lakeview

SISKIYOU

MODOC

97

20

395

5

PACIFICPOWER

Study Area

N

0 10 20 30 40 50 Miles

Levels of Voltage

Transmission - transport bulk power

- Range from 115 kilovolts (kV) to 500-600 kV and higher

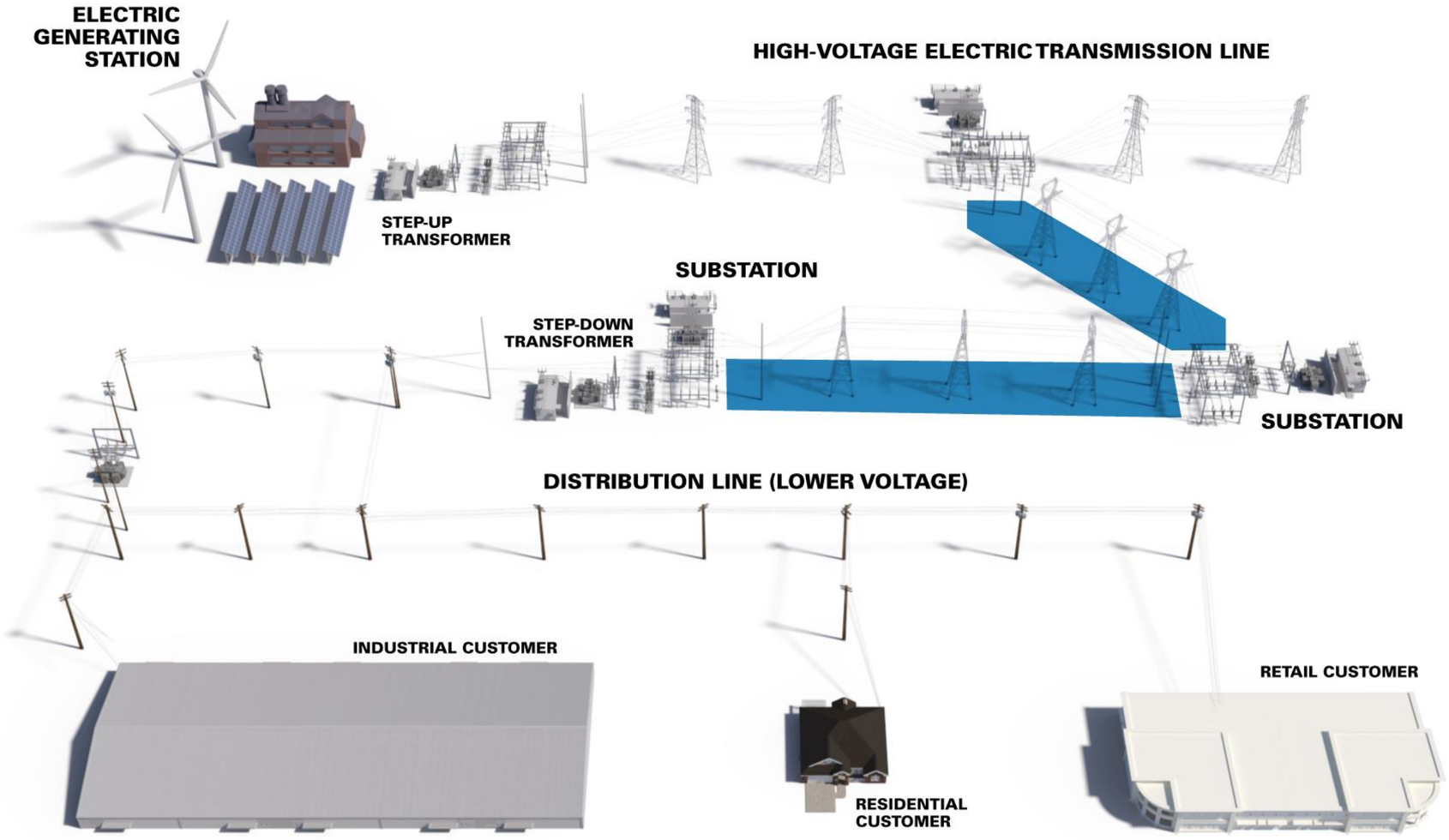
Distribution

- Approximately 12 kV to 35 kV

Consumer Service

- Typical household runs on 110/120 volts; 220/240 volts for large appliances

From Generation Source to the Customer



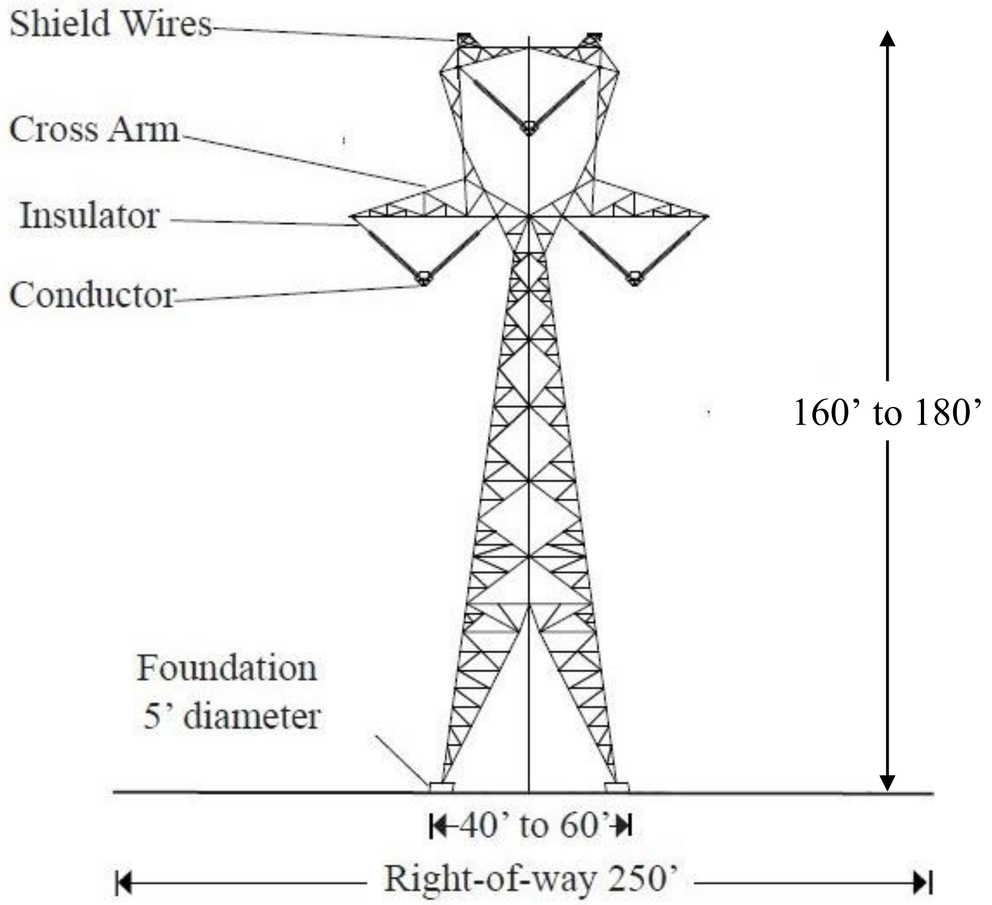
Structure Type and Substation

TYPICAL SINGLE CIRCUIT 500-KV TRANSMISSION

TYPICAL SUBSTATION

Typical Structure Type

- **Voltage:** 500 kV
- **Length:** Approximately 180 miles
- **Structure types:** Steel lattice, single circuit
- **Structure height:** 160 to 180 feet
- **Span between structures:** 800 to 1,400 feet
- **Right-of-way width:** 250 feet



Routing Study Approach

We are here

-Purpose and Need -Project Description	-Routing Study Area -Data Collection	-Opportunities and Constraints Analysis	-Preliminary Alternative Routes	-Alternative Routes Comparison -Preferred Route	-Permitting
-Public Outreach and Engagement Plan	-Briefings	-Briefings	-Briefings -Public Open House Meetings -Initial Agency Meetings	-Briefings	-Public Hearings

Routing Study - Opportunities

Opportunities to optimize routing

- Parallel existing linear facilities (transmission lines, roads/highways, railroad).
- Use corridors designated by federal agencies for linear facilities.
- Route in areas of compatible land use (e.g., industrial, commercial), areas previously disturbed, and in federally designated corridors.
- Parallel section or property lines.
- Maximize use of existing adjacent, nearby access and areas compatible with overland travel.
- Areas that facilitate efficient and cost-effective transmission line design and construction.

Routing Study - Constraints

Potential constraints to routing

- Existing residences and/or approved master-planned communities
- Agriculture operations (e.g., center-pivot irrigation)
- Existing airports/airstrips/restricted airspace
- Schools
- Developed recreation areas, parks, community open space
- Known archaeological sites and historic properties
- Known special-status species or critical habitat
- Wetland and riparian areas

Environmental Studies

Land Use and Jurisdiction

- Existing and planned land uses
- Land use plans
- Special management areas
- Wildfire (prevention, suppression)

Visual Resources

- Agency visual management
- Sensitive viewers

Cultural Resources

- Prehistoric and historic resources
- Sites listed on or eligible to the National Register of Historic Places

Biological Resources

- Special-status species of plants and wildlife
- Critical habitat

Surface Water Resources

- Floodplains
- Wetland

Geologic Hazards and Topography

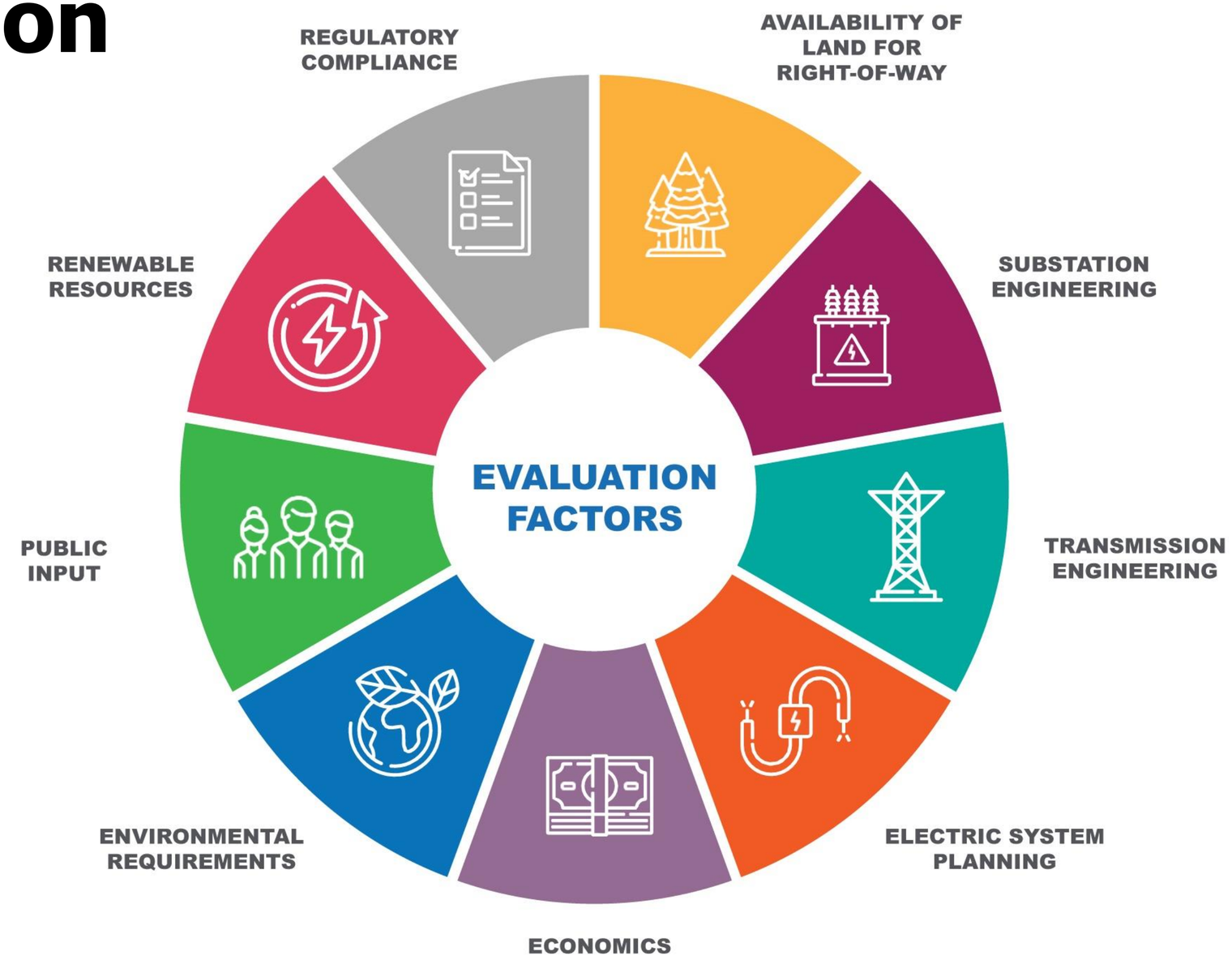
- Seismic, faults
- Slopes
- Soils

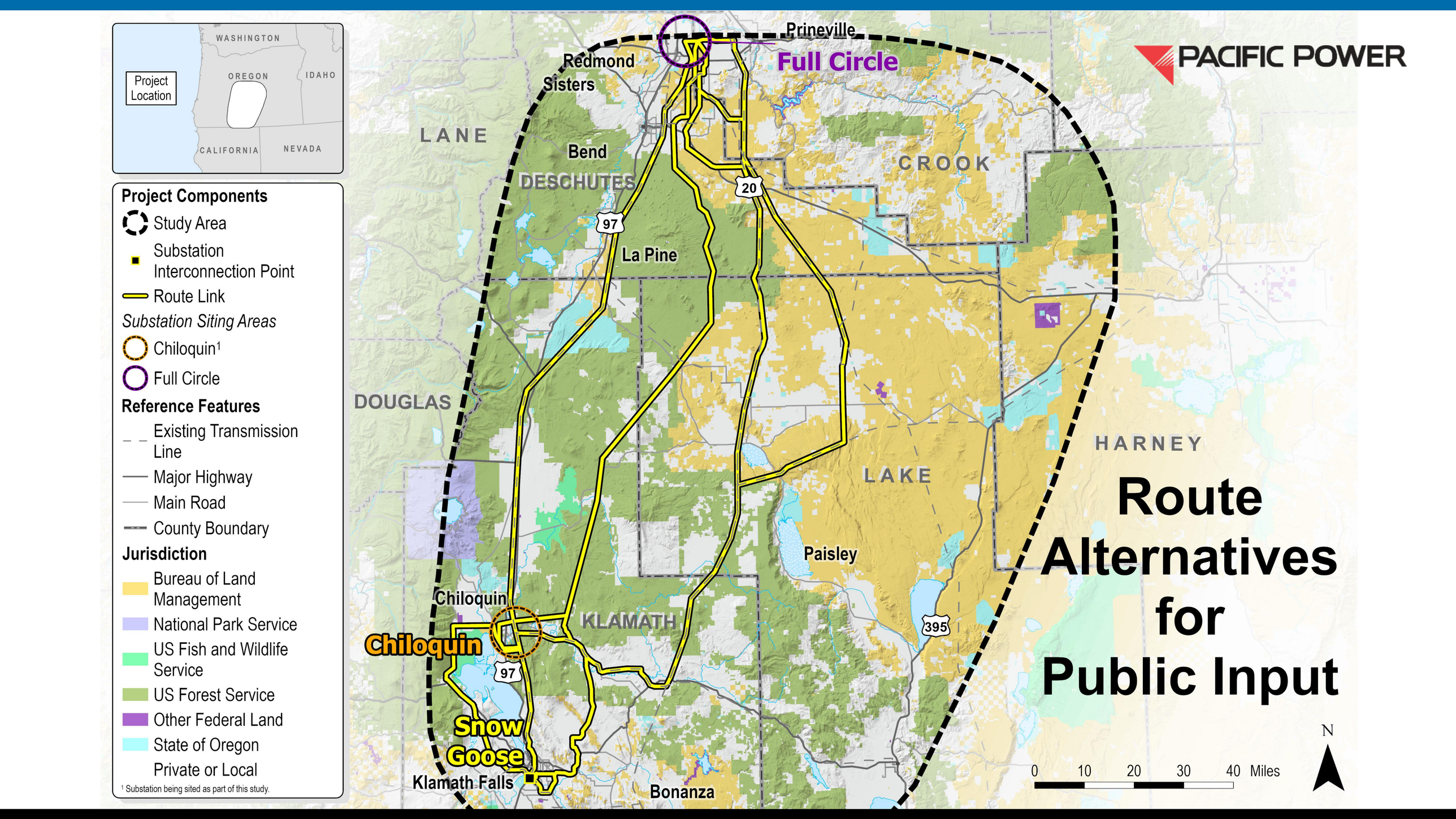
Environmental Justice

Engineering Considerations

- Total line length
- Length of parallel conditions
- Floodplains
- Transportation and utility crossings
- Accessibility
- Constructability

Evaluation Factors




WASHINGTON
OREGON
IDAHO
CALIFORNIA
NEVADA
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Route Link
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Redmond
Sisters
Bend
Full Circle
LANE
DESCHUTES
CROOK
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97
La Pine
DOUGLAS
HARNEY
LAKE
Paisley
Chiloquin
KLAMATH
395
Chiloquin
97
Snow Goose
Klamath Falls
Bonanza
PACIFIC POWER
Route Alternatives for Public Input
N
0 10 20 30 40 Miles

Public Outreach and Engagement

Fact Sheet

FAQ's

Website Content

Information Phone Line

Briefings/ Community Working Groups

Notifications/ Mailing List

Public Meetings/ Hearings

Email

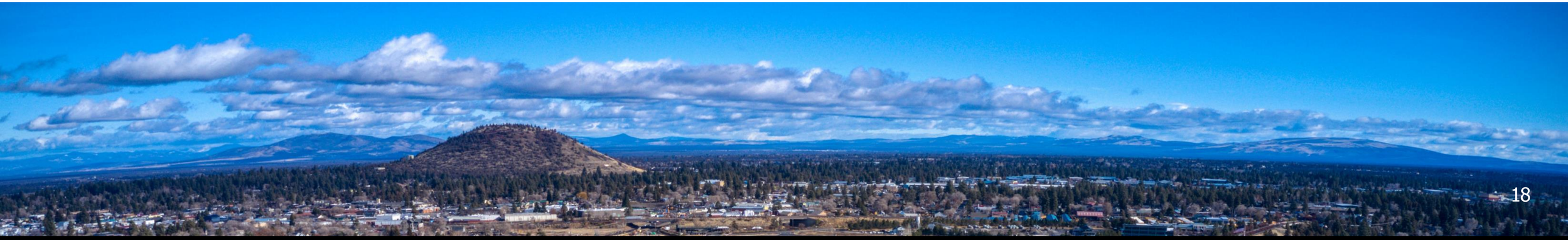
Public Open House Meetings

- March 10, 2025; 5-7pm – **Prineville**; Carey Foster Hall (590 SE Lynn Blvd)
- March 11, 2025; 5-7pm – **Bend**; Larkspur Community Center (1600 SE Reed Market Rd)
- March 12, 2025; 5-7pm – **Chiloquin**; Chiloquin Community Center (140 S 1st Ave)
- March 13, 2025; 5-7pm – **Klamath Falls**; Klamath County Event Center/Fairgrounds Exhibit Hall #2

  March 18, 2025; 6-7pm – Virtual Open House (Zoom)

Preliminary Schedule

- Routing Study……2023 – 2024
- Permitting……2025 – 2028
- Land Acquisition……2028 – 2029
- Construction……2029 – 2031
- In Service……2032



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