



Welcome!

Transmission Corridors Work Group

Meeting #4

Day 1: February 9, 2022; 9 AM – 12 PM

Observers: Please join the meeting via Livestream: www.rossstrategic.com/livestream

Public Participation

- Public observers, if you are currently in the Zoom meeting, please log off and listen/watch the meeting via livestream: www.rossstrategic.com/livestream
- If you wish to provide public comment, please join the Zoom meeting **tomorrow at 11:45 AM**.
- We will share Zoom info at that time (available through livestream)
- Written comments are always welcome via email: transmissioncorridors@rossstrategic.com



If you need technical assistance, please send a Zoom chat to **Lauren Dennis**.



Welcome and agenda review

Susan Hayman, TCWG Facilitator, Ross Strategic
Kathleen Drew, EFSEC



Meeting Objectives

Today's agenda – Day 1 (Feb 9)

Time	Topic
9:00 AM	Opening (agenda review, remarks, etc.)
9:10 AM	TCWG Member Round Robin
9:30 AM	Overview: Transmission Line Permitting Context
9:45 AM	Federal-Level Transmission Line Permitting Context <ul style="list-style-type: none">• Presentation: Sarah Esterson, Oregon Energy Facility Siting Council
10:10 AM	Break
10:20 AM	State-Level Transmission Line Permitting Context <ul style="list-style-type: none">• Round Robin, Discussion, Mural Exercise
11:00 AM	Break
11:10 AM	Long Distance, High-Voltage Siting Case Study 2: Cascade Crossing <ul style="list-style-type: none">• Presentation: Tim McMahan, Stoel Reeves• Discussion with Doug Young, USDA Forest Service
11:50 AM	Wrap-Up & Adjourn

Tomorrow's agenda – Day 2 (Feb 10)

Time	Topic
9:00 AM	Opening – recap, observations, reflections, questions from Day 1
9:05 AM	Permit Applicant Perspectives on NEPA, SEPA, and Local Permitting Environmental Review Panel Discussion <ul style="list-style-type: none">• <i>PSE: Lorna Luebbe</i>• <i>PacifiCorp: Brian Fritz</i>• <i>Idaho Power: Joe Stippel</i>
10:00 AM	Break
10:20 AM	Emerging Principles for Expediting Environmental Review <ul style="list-style-type: none">• Walk through and Mural Reflections• Facilitated Discussion
11:50 AM	Public Comment Opportunity (up to 2 mins per person)
12:00 PM	Looking Forward, Wrap-up, and Adjourn



TCWG member round robin

Observations? Information or insights to share with one other?

A photograph of a high-voltage transmission tower and power lines, partially obscured by a teal overlay. The tower is a lattice structure, and the lines are visible against a light sky.

Overview: Transmission Line Permitting Context

Joe Wood, EFSEC



Perspectives shared today & tomorrow

Today (Day 1):

- *Sarah Esterson, Oregon EFSC*- High-level view of permitting pathway for B2H
- State-level transmission line permitting (invited speakers)
- *Tim McMahon, Stoel Reeves, Doug Young*- Long distance, high-voltage siting case study: Cascade Crossing

Tomorrow (Day 2):

- *Lorna Luebbe (PSE), Brian Fritz (PacifiCorp); Joe Stippel (Idaho Power)*- Permit applicant perspectives on NEPA, SEPA, and Local Permitting Environmental Review

Oregon Department of **ENERGY**

Federal and State-level
transmission line
permitting

Boardman to
Hemingway Transmission
Line Project

Sarah Esterson, Senior Policy Advisor
February 9, 2022



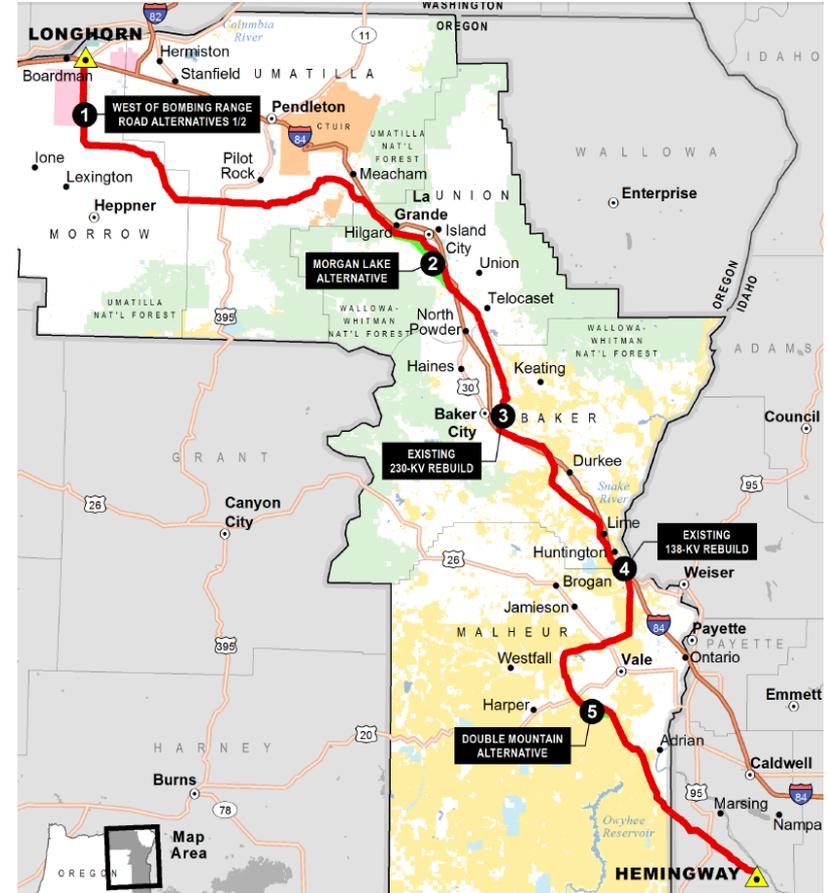
Overview

- Introduction
 - Project Overview
 - Purpose and Need of Project
 - Federal and state-level permit nexus
- Permitting Process and Status Update
 - Federal
 - State

Boardman to Hemingway Transmission Line (B2H)

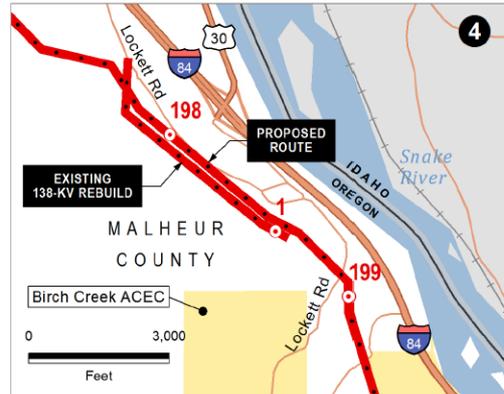
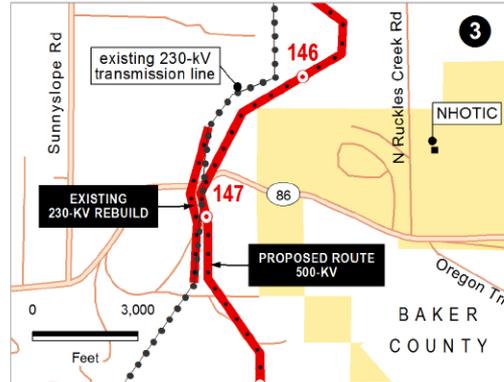
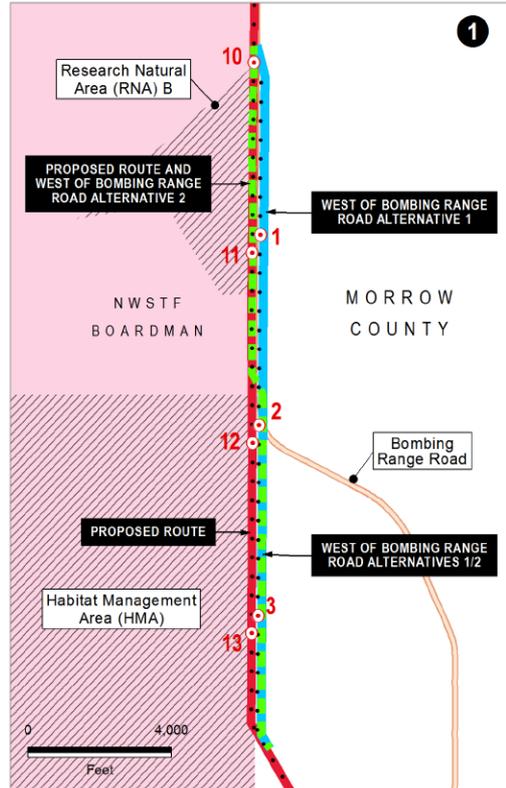
Project Overview

- Type of Facility: 500 kV electric transmission line, approx. 300 miles length
- Location (Oregon): Morrow, Umatilla, Union, Baker, and Malheur
- Regulated by federal and state permitting authorities



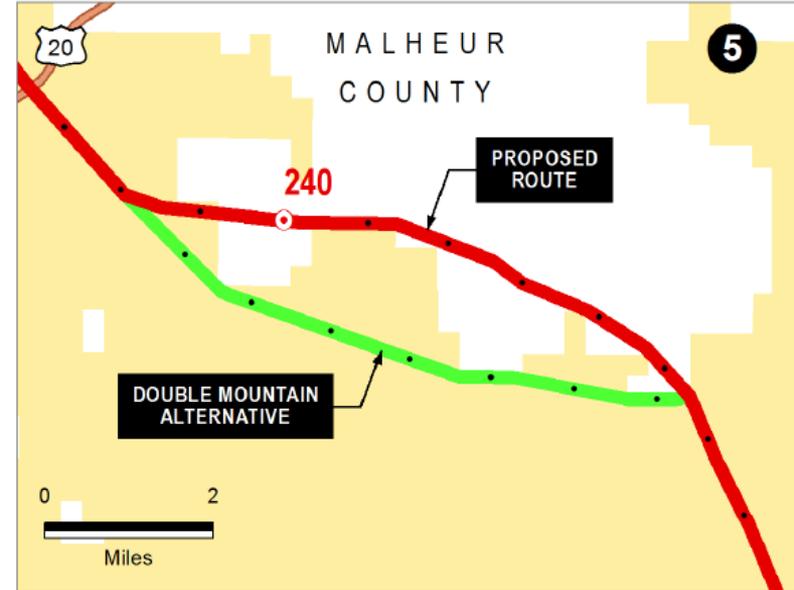
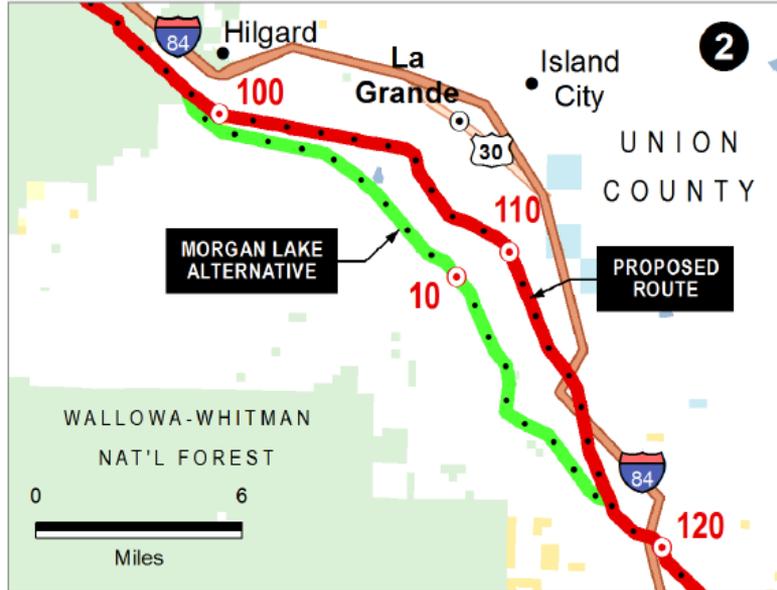
Boardman to Hemingway Transmission Line (B2H)

Facility Overview



Boardman to Hemingway Transmission Line (B2H)

Facility Overview



Purpose and Need of Proposed Project

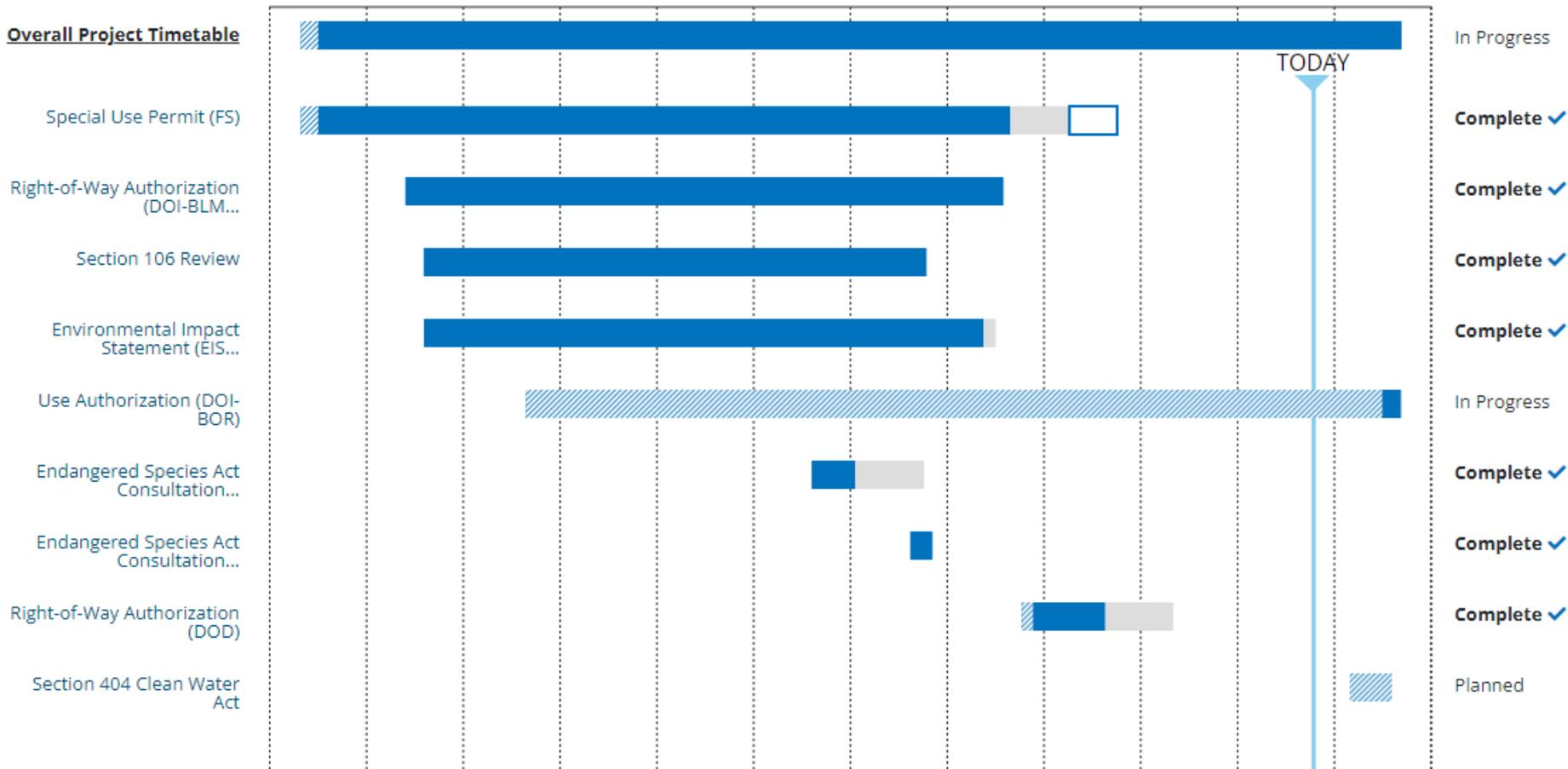
- Relieve existing transmission constraints between the Pacific Northwest and Intermountain West regions;
- Increase opportunities for the exchange of energy between the regions;
- Ensure sufficient capacity for the Idaho Power Company to meet its forecasted customer demand requirements; and -Improve system reliability as demands on the transmission system continue to grow.

Federal/state Permit Nexus

Federal

- Bureau of Land Management (lead federal agency) -
 - Right of Way; Environmental Impact Statement; Section 106
- Forest Service -
 - Special Use Authorization
- Bureau of Reclamation –
 - Special Use Authorization
- Navy/Department of Defense –
 - Right of Way
- United States Fish and Wildlife Service –
 - Endangered Species Act Consultation
- U.S Army Corps of Engineers -
 - Section 404 Clean Water Act

Overall Project Timetable

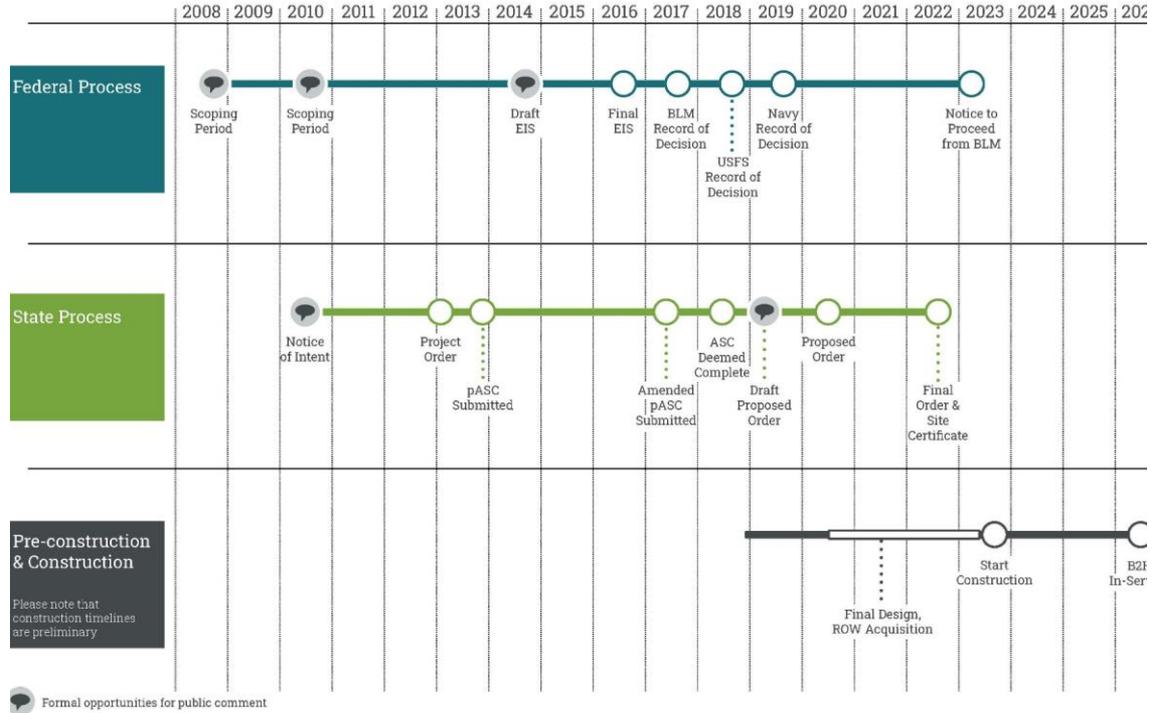


Federal/state Permit Nexus

State

- Approval of a site certificate from Energy Facility Siting Council (EFSC)
 - Applies to > 230 kV trans. lines, more than 10 miles, to be located in more than one city or county
- EFSC process is a one-stop permitting process
 - Incorporates land use permitting requirements from each affected county
 - Incorporates applicable rules and requirements of other state agencies (i.e. Department of State Lands, Department of Environmental Quality)

Federal/State Permitting Status

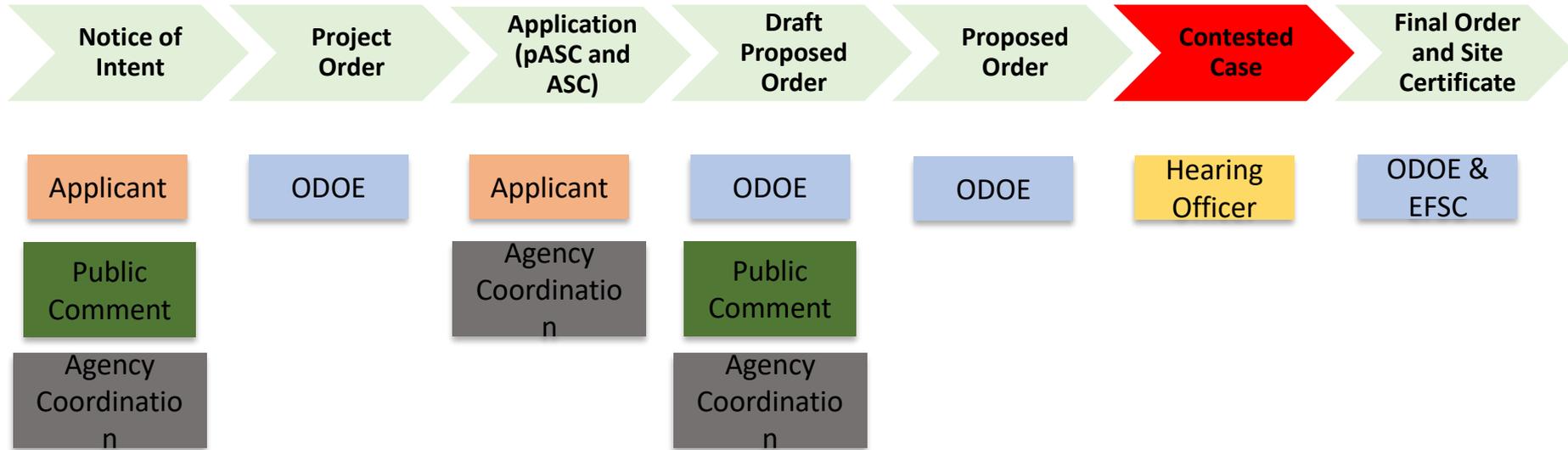


Energy Facility Siting Council (EFSC) Review



- Consolidated review and oversight of most large-scale energy facilities and infrastructure in Oregon
- 7 Members of EFSC
- Governor appointed, Senate confirmed – Volunteers from around the State
- ODOE's Siting Division is primary staff to EFSC

Energy Facility Siting Process





Brief Q&A



Break

Please return at 10:30 AM



State-level transmission line permitting

Ecology, Snoqualmie Indian Tribe, Yakama Nation, DAHP,
DNR, DFW



Questions for our invited speakers:

- What role would you and your agency or Tribe play in permitting transmission projects?
- What do you see as the biggest challenges/opportunities for your agency or Tribe in expediting review and permitting of transmission projects?



Mural Exercise

- What are your observations or key takeaways from hearing these perspectives/discussions?
- What recommendations relative to expediting review of transmission projects without compromising required environmental protection would you like to see the TCWG put forward?



Case Study: Cascade Crossing

Tim McMahan, Stoel Rives

Doug Young, USDA Forest Service



Stoel Rives_{LLP}

Long Distance High Voltage Transmission Lines

Presented by Timothy L. McMahan
Stoel Rives LLP
February 2022

NW Natural Gas South Mist Pipeline Extension

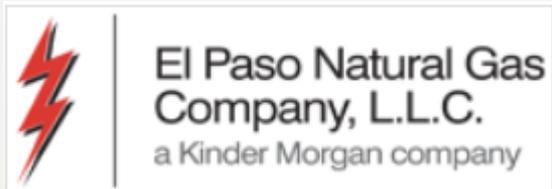
- **Site Description:** South Mist is a 62 mile, 24-inch natural gas pipeline. The pipeline connects the Mist Underground Gas Storage Facility with the interstate pipeline system and accommodates growth in demand for natural gas in the western Portland suburbs.
- Oregon EFSC Application in 2000. Site Certificate issued in 2003.
- **Location:** Washington, Marion and Clackamas counties. The northern terminus is the Bacona Blowdown Station, located in forestland north of Dairy Creek. It extends south and east to the Williams Pipeline Gate Station northwest of Molalla.



Service Territory



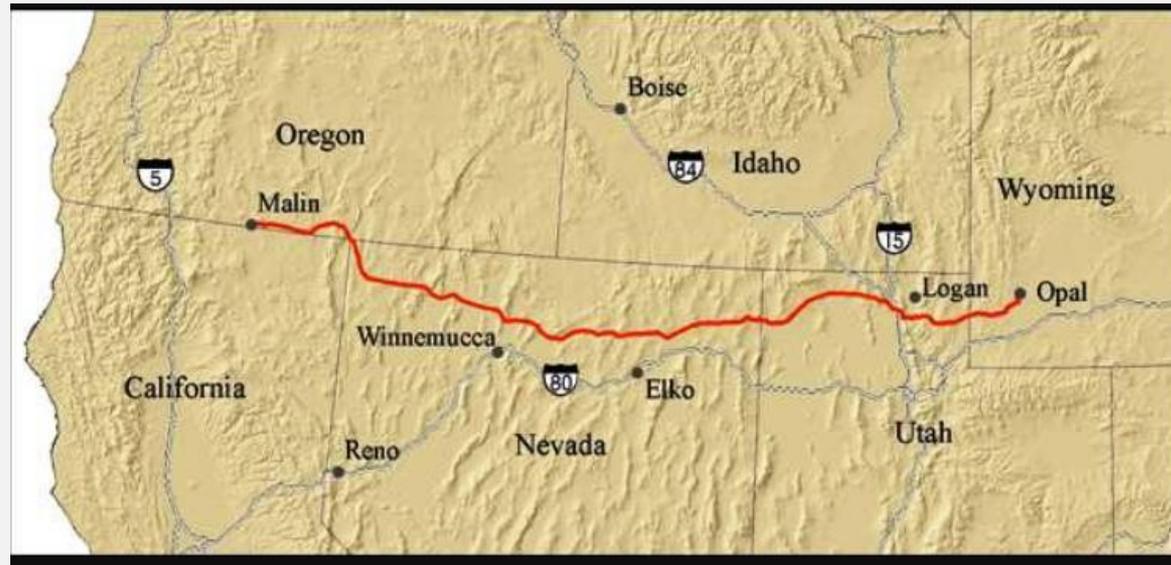
Ruby Pipeline, El Paso



- **Ruby Pipeline:** 42-inch diameter natural gas pipeline running from [Opal, Wyoming](#), to [Malin, Oregon](#). Ruby Pipeline, L.L.C. filed an application with the [Federal Energy Regulatory Commission](#) (FERC) on January 27, 2009, seeking authorization for the construction and operation of the Ruby Pipeline Project. On April 5, 2010, the FERC approved the application. Construction began on July 31, 2010, and the pipeline was placed in service on July 28, 2011. The pipe is 680 miles (1,090 km) long with an expected capacity of 1.5 billion cubic feet per day ($42 \times 10^6 \text{ m}^3/\text{d}$).

Ruby Pipeline, El Paso

- FERC Pre-Filing stage in 2008; Final EIS in 2009.
- Placed in service July 2011.

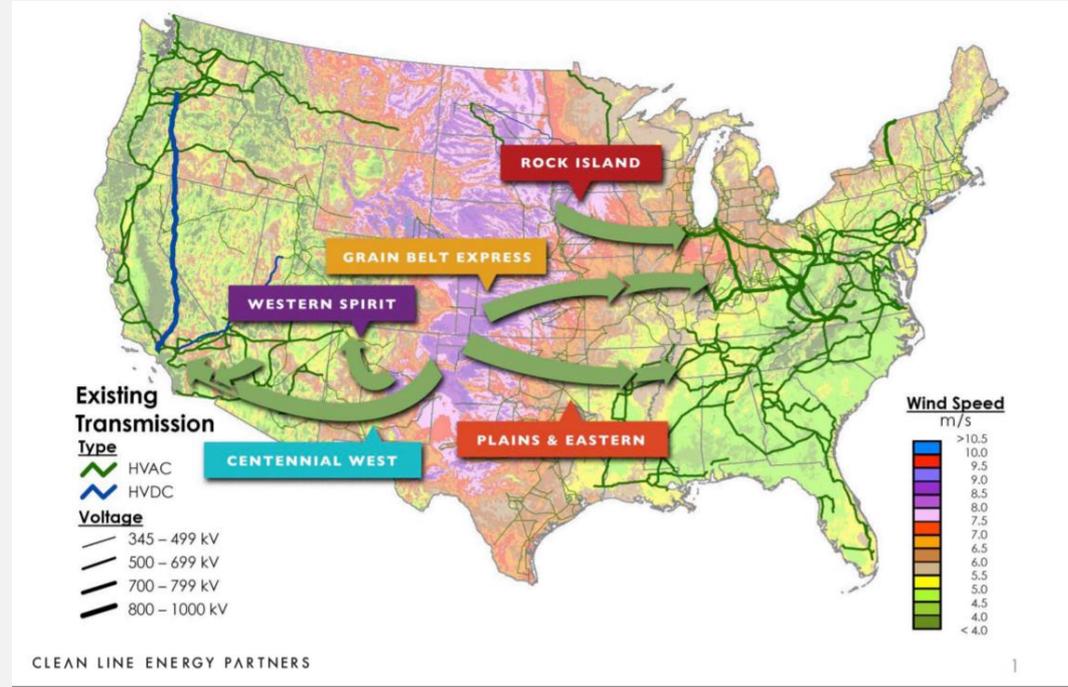


2014 – 2019: Clean Line Energy's Big Plan

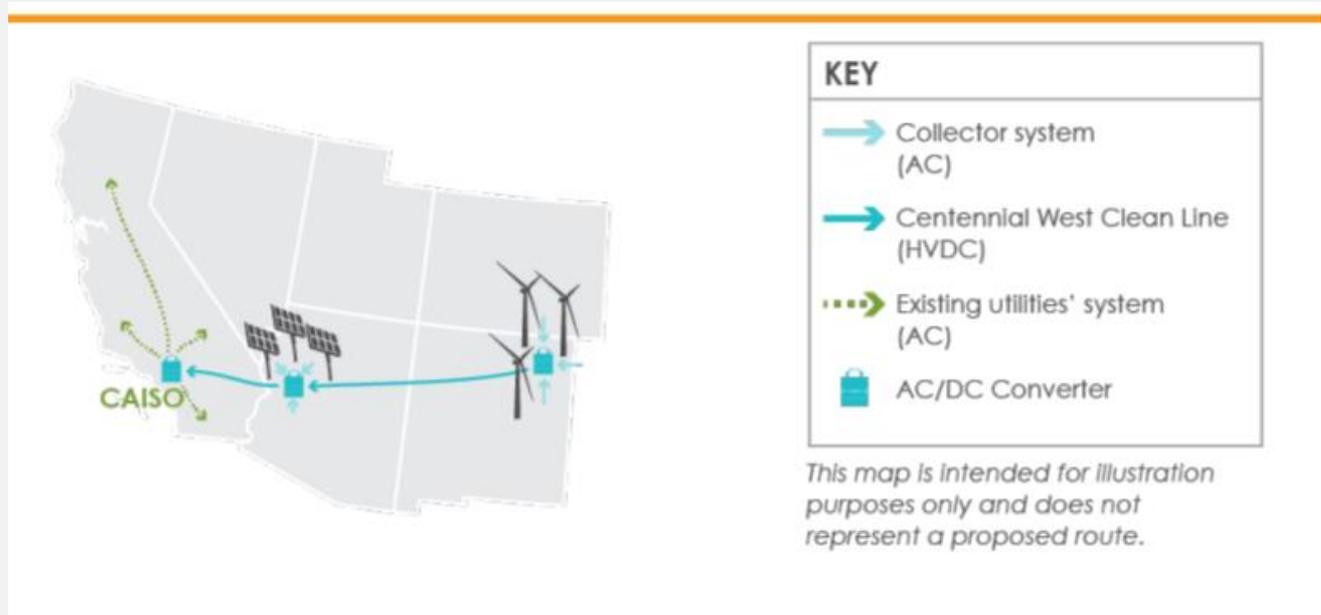
National connected DC grid to transport renewable energy from heartland to eastern and western markets. Anticipated national RPS and push for national transmission grid investments to address climate change.



2014 – 2019: Clean Line Energy's Big Plan



Centennial West will deliver renewable energy from New Mexico and Arizona to California



Western Spirit Clean Line Energy and Pattern Development, 345 kV DC

2018 Sale to Pattern Energy

WESTERN SPIRIT
CLEAN LINE



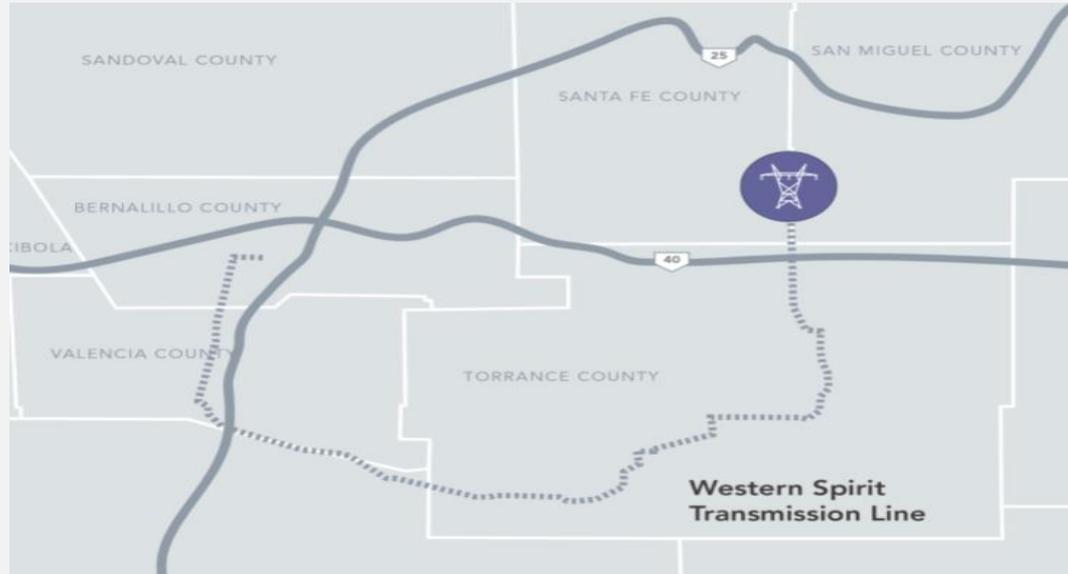
MESA CANYONS
WIND FARM

**CLEAN LINE ENERGY SELLS THE WESTERN SPIRIT TRANSMISSION LINE
AND THE MESA CANYONS WIND FARM**

Pattern Development has acquired Western Spirit Clean Line LLC and Mesa Canyons Wind, LLC and all of the respective New Mexico assets. Both projects are in advanced stages of development and Western Spirit will continue to be co-developed by the New Mexico Renewable Energy Transmission Authority. These projects will enable New Mexico to access and export the state's vast renewable energy resources to major energy markets.

 **Pattern**
Development

Western Spirit Clean Line Energy and Pattern Development, 345 kV DC



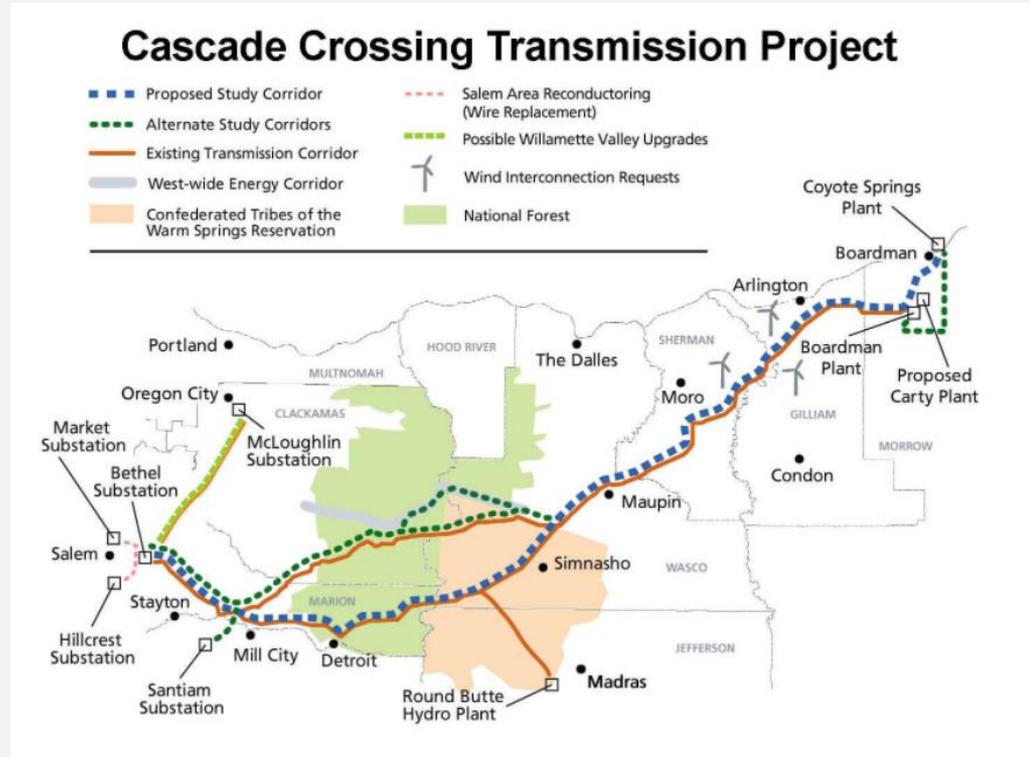
Overall ambitions abandoned due to change in national policy.

PGE Cascade Crossing Transmission Line

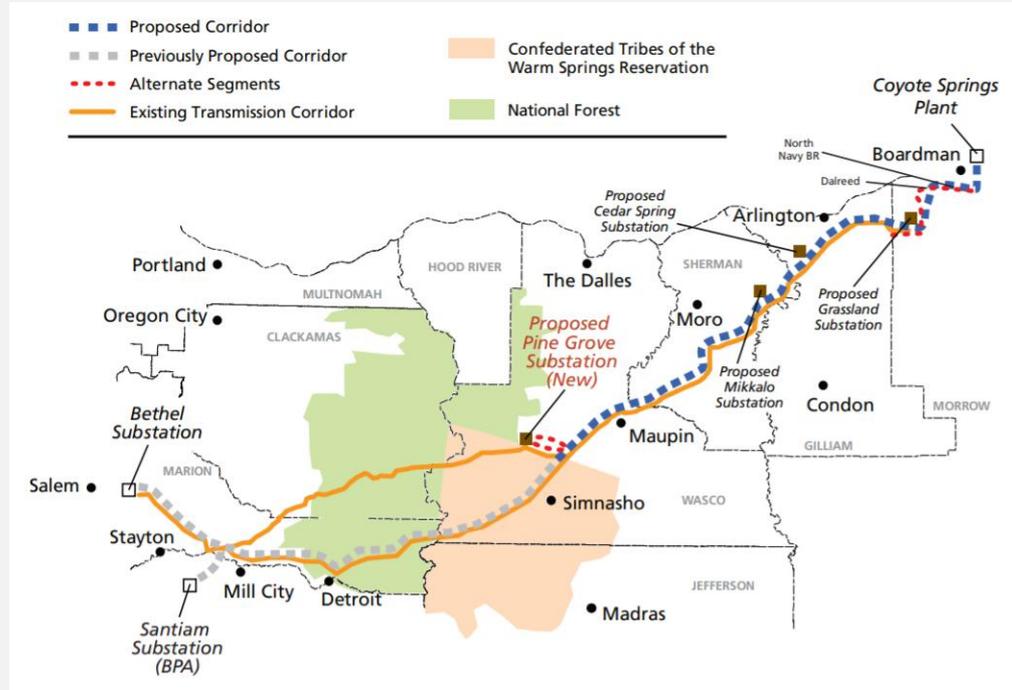
- **Site Description:** Originally the project was a 210-mile, 500 kV double-circuit transmission line from Boardman to the Salem area in Oregon. It was reduced to a 122-mile, 500 kV transmission line from PGE's Coyote Springs substation in Boardman to the new Pine Grove substation. The proposal was amended for a 500 kV transmission line between Boardman and the Maupin area. The proposal included constructing four new substations. From the Coyote Springs Generating Plant in Boardman to a new Pine Grove substation, approximately 18 miles southwest of Maupin. The line would pass through Morrow, Gilliam, Sherman and Wasco counties.
- **Status:** *Terminated.* Oregon EFSC Notice of Intent to file an Application for Site certification filed 2010. In March 2013, PGE scaled back the project due to lesser demand and proposed a shorter line from Boardman to Pine Grove substation under the same project. PGE withdrew its application to EFSC on June 24, 2013, after submittal of the amended application. PGE signed a memorandum of understanding (MOU) with BPA to seek mutual transmission capacity solutions.

PGE Cascade Crossing Transmission Line

- Location:



PGE Cascade Crossing Transmission Line





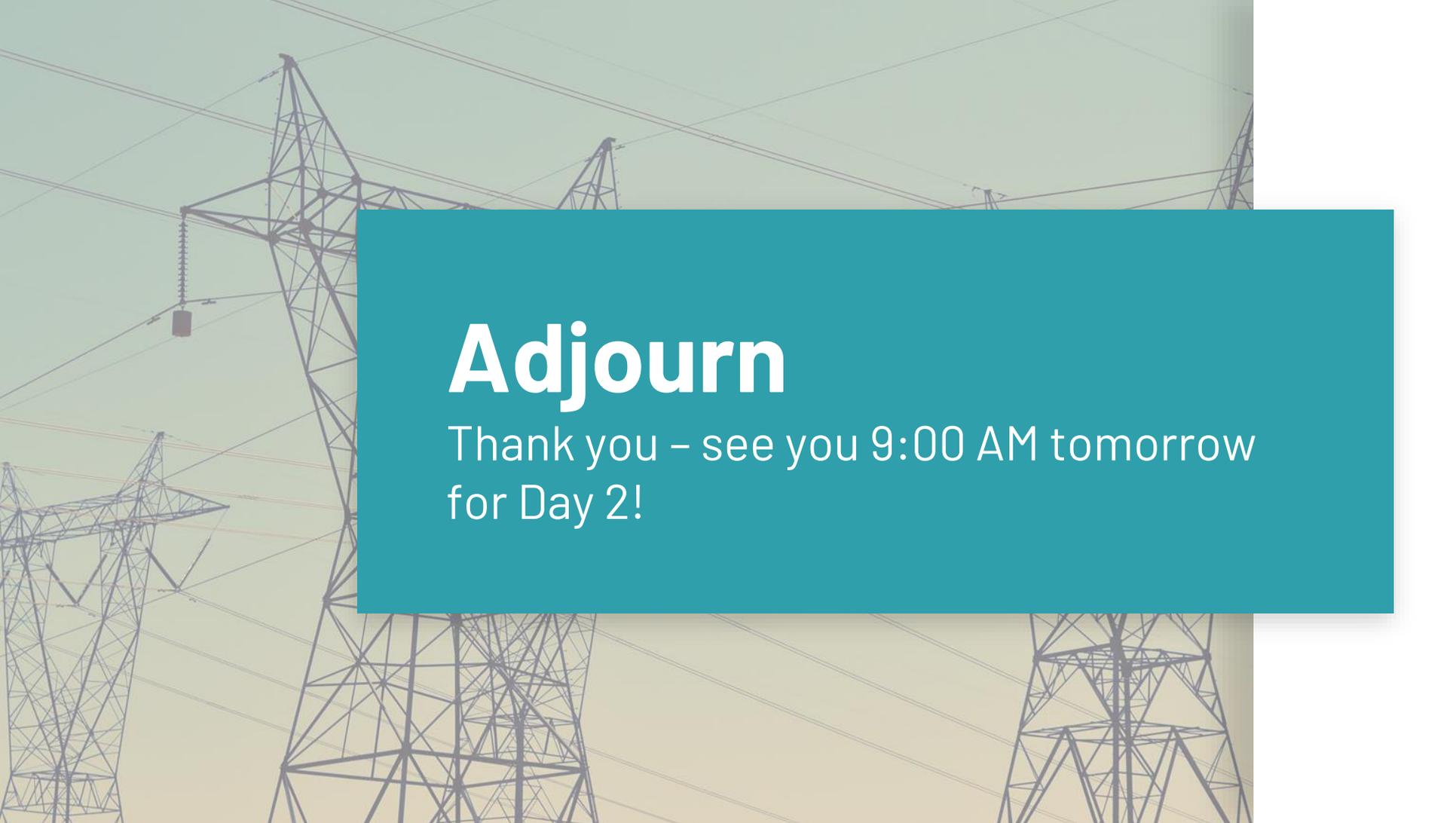
Brief Q&A



Day 1 Wrap Up Day 2 Preview



Closing remarks

The background of the slide features a network of high-voltage power lines and lattice towers, rendered in a light, semi-transparent style against a pale, hazy sky. The lines crisscross the frame, creating a sense of depth and infrastructure. The towers are positioned at various points, with one particularly prominent in the lower-left foreground.

Adjourn

Thank you – see you 9:00 AM tomorrow
for Day 2!



Welcome!

Transmission Corridors Work Group

Meeting #4

Day 2: February 10, 2022, 9 AM -12 PM

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Welcome and Day 2 agenda

Rob Willis, TCWG co-facilitator, Ross Strategic
Kathleen Drew, EFSEC



Opening Remarks

Kathleen Drew, EFSEC, TCWG Chair



What is one thing you heard and/or learned yesterday you want to engage with your colleagues on today?

The background of the slide features a photograph of several high-voltage electrical transmission towers and power lines. The towers are constructed from a complex lattice of metal beams. The power lines stretch across the frame, with some insulators visible. The overall color palette is muted, with greys, blues, and browns, giving it a technical and industrial feel.

Agenda Review

Today's agenda

Time	Topic
9:00 AM	Opening – recap, observations, reflections, questions from Day 1
9:05 AM	Permit Applicant Perspectives on NEPA, SEPA, and Local Permitting Environmental Review Panel Discussion <ul style="list-style-type: none">• <i>PSE: Lorna Luebbe</i>• <i>PacifiCorp: Brian Fritz</i>• <i>Idaho Power: Joe Stippel</i>
10:00 AM	Break
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11:50 AM	Public Comment Opportunity (up to 2 mins per person)
12:00 PM	Looking Forward, Wrap-up, and Adjourn

Perspectives shared

Reminder from yesterday (Day 1):

- *Sara Esterson; Oregon EFSC*- Federal-level transmission line permitting: Boardman to Hemingway Project
- *Tim McMahon (Stoel Rives), Doug Young*- Long distance, High-voltage siting case study: Cascade Crossing

Today:

- *Panel Discussion: PSE, PacificCorp, Idaho Power* – Permit applicant perspectives on NEPA, SEPA, and local permitting environmental review



Permit Applicant Perspectives

Panel Discussion: Joe Stippel (Idaho Power), Lorna Luebbe (PSE), Brian Fritz (PacifiCorp)

Energize Eastside – Permitting Overview

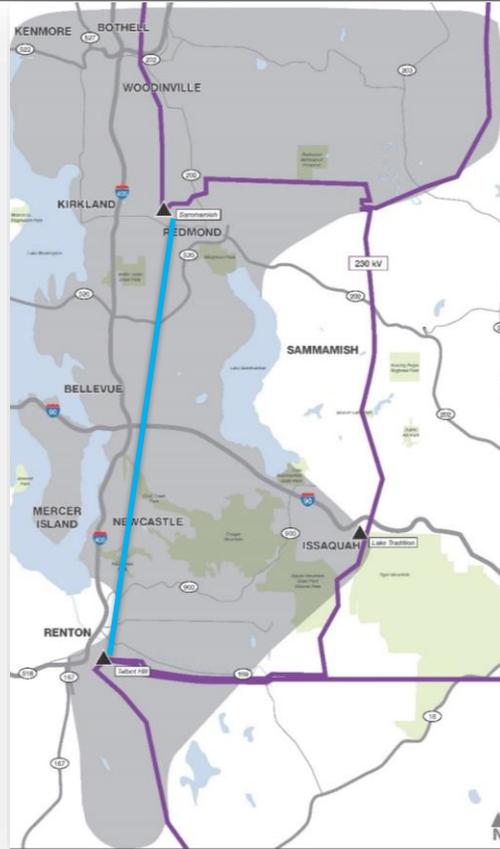
Lorna Luebbe

Assistant General Counsel/Director of Environmental
Services

energize**EASTSIDE**

Project Overview

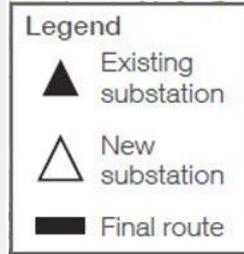
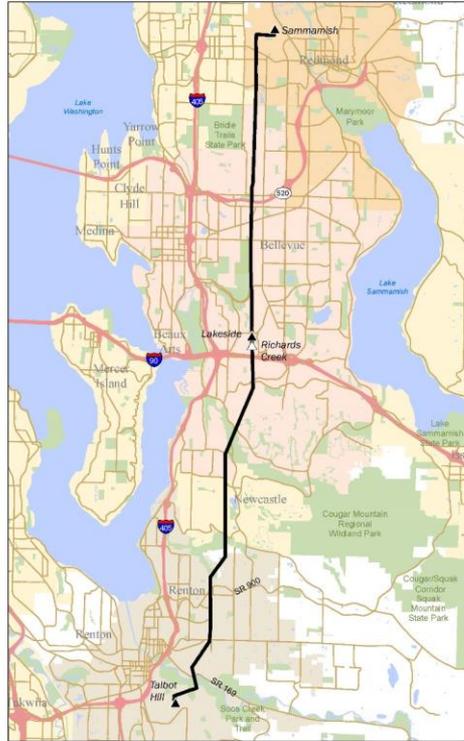
- Federal reliability standards require proactive planning
- Studies revealed Eastside transmission capacity deficiency
- Until system is upgraded, complex corrective action plans in place that include intentional load shedding



Legend

- Existing bulk 230 kV transmission lines
- Existing 115 kV transmission line corridor
- ▲ Substations

Project route – Existing corridor



- 16 mile upgrade where there is an existing 115kV HVTL
- Requires permits from 4 cities, King County and state and federal agencies

Environmental Impact Statement

- Five Partner Cities served as Lead Agency
- Required two phases of review
 - Phase I – Reviewed Project Need and Wire and Non-Wire Alternatives
 - Phase II – Reviewed Transmission Line Routing Alternatives
- Public outreach on the project began with a 2014 Community Advisory Committee.
- SEPA review completed between 2015-2018.
- EIS upheld on appeal in July 2019.

Local Permits

Permit	Status
<u>Bellevue – South</u> (Sept. 2017- June 25, 2019) --- APPEALED	
Conditional Use Permit	✓ (upheld on appeal)
Critical Areas Land Use Permit	✓
Clear and Grade Permit (transmission line)	✓
Clear and Grade Permit (substation)	✓
Commercial Building Permit (detention vault)	✓
Commercial Building Permit (retaining wall)	✓
Surface Water Discharge Authorization	✓
Utility Extension Agreement	✓
Right of Way Use Permit (transmission line)	✓
Right of Way Use Permit (substation)	✓
Hauling, Noise Variance, and Right of Way Use (Road Use)	✓

Local Permits

Permit	Status
<u>Bellevue – North</u> (2021-TBD)	
Conditional Use Permit	Application Pending
Critical Areas Land Use Permit	Application Pending
East Bellevue Community Council Review	TBD
Clear and Grade Permit	TBD
Right of Way Use Permit	TBD

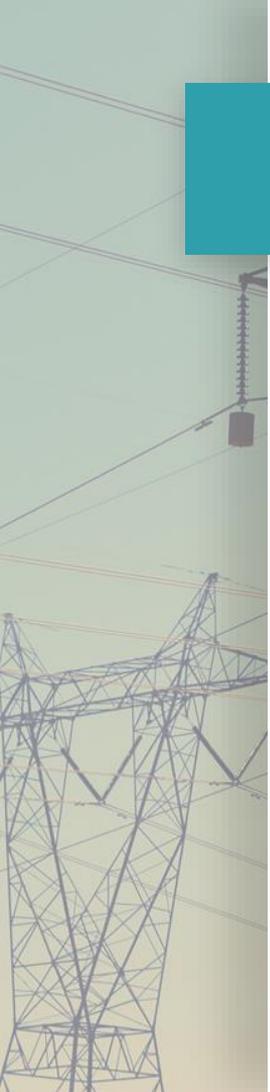
Permit	Status
<u>Redmond</u> (2021-TBD)	
Conditional Use Permit	Application Pending
Site Plan Entitlement	Application Pending
Clear and Grade Permit	Application will be submitted if CUP approved
Right of Way Use Permit	Application will be submitted if CUP approved

Local Permits

Permit	Status
<u>King County</u>	
Construction Dewatering Authorization	✓
Clear and Grade Permit	✓
Hauling, Noise Variance, and Right of Way Use (Road Use)	✓

State and Federal Permits/Authorizations

Permit	Status
DNR – Aquatic Land Lease	✓
Ecology – Construction Stormwater (North)	NOI to be submitted at a later date
Ecology – Construction Stormwater (South)	✓
Ecology – Clean Water Act, Section 401 Water Quality Certification (Redmond)	Application pending
DAHP – Section 106 Review	Received concurrence
WDFW – Hydraulic Project Approval (substation)	✓
WDOT – Highway Crossing Permit	Issued for I-90; Submitted for HWY 520
CWA, Section 404 Nationwide Permit (substation)	Application to be submitted at a later date
CWA, Section 404 Nationwide Permit (Redmond)	Application pending ✓
CZMA Consistency Determination (substation)	
CZMA Consistency Determination (Redmond)	Application pending



Mural Exercise

- What are your observations or key takeaways from hearing these perspectives/discussions?
- What recommendations relative to expediting review of transmission projects without compromising required environmental protection would you like to see the TCWG put forward?



Break

Return at 10:30 AM

For those wishing to provide public comment at 11:50 AM:

- Log into the Zoom meeting at 11:45 AM by typing this address into your browser:
<https://www.zoomgov.com/j/1607278862>
- You can also join by phone:
Phone number: (669) 254-5252
Meeting ID: 160 727 8862

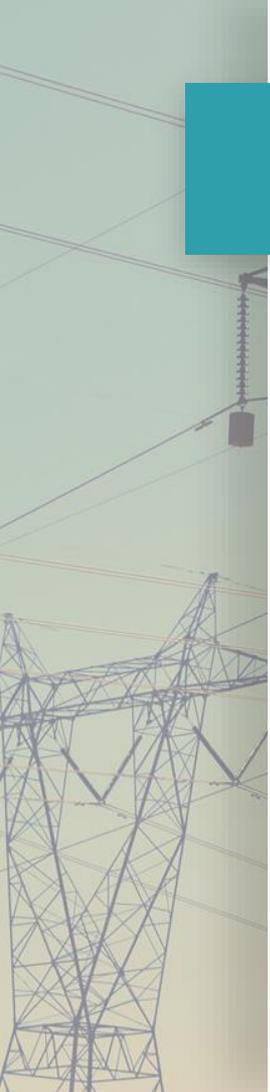


Emerging Principles for Expediting Environmental Review:

Facilitated discussion

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Public Comment Opportunity will start at 11:50 AM



Public Comment Opportunity

Public Comment Opportunity

- Each commentor has up to 2 minutes to provide comment.
- Please raise your virtual hand to indicate you would like to comment. (Alt-Y)
- The facilitation team will call on commenters when it is their turn to speak. You will be muted until your turn.
- Commenters may also email comments to transmissioncorridors@rossstrategic.com



Looking Forward and Wrap Up



Looking Forward and Wrap Up

- Action items/next steps
- Meeting #5 currently scheduled for April 13 & 14, 2022

The background of the slide features a photograph of several high-voltage electrical transmission towers (pylons) and power lines. The towers are constructed from a complex lattice of metal beams. The power lines stretch across the frame, with some insulators visible. The overall color palette is muted, with greys, blues, and a hint of green, suggesting an overcast sky or a filtered light source.

Closing remarks



Thank you!

Please direct group member questions and public comments to:

transmissioncorridors@rossstrategic.com