BONNEVILLE POWER ADMINISTRATION

BPA Attachment K Planning Process

Planning Meeting II

November 16, 2026

Agenda

- Introductions
- Attachment K Planning Cycle – 2026
- Attachment K Website
- Economic Study Requests
- Project Updates and Significant Planned Projects
- Next Steps

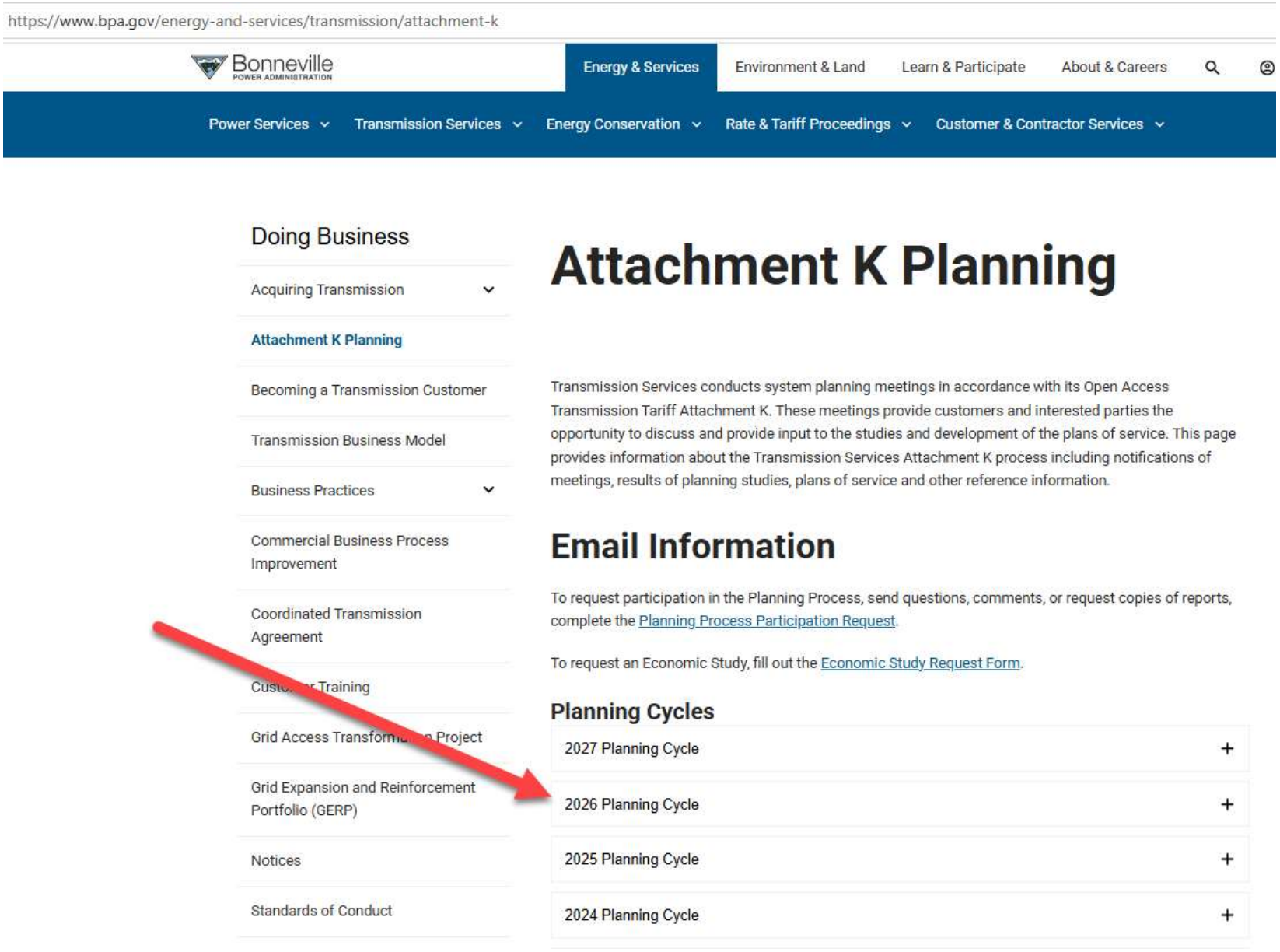
Attachment K Planning Cycle - 2026

- **Customer Meeting I** — **October 7, 2025**
  - 2025 BPA Transmission Plan
  - 2026 Planning Assumptions, Criteria, Methodology
  - Economic Study Requests
- **Posting I** — **September 2026**
  - Summary of 2026 System Assessment Results and Conceptual Solutions
- **Customer Meeting II** — **November 16, 2026**
  - Project updates
- **Posting II** — **End of Year 2026**
  - 2026 BPA Transmission Plan

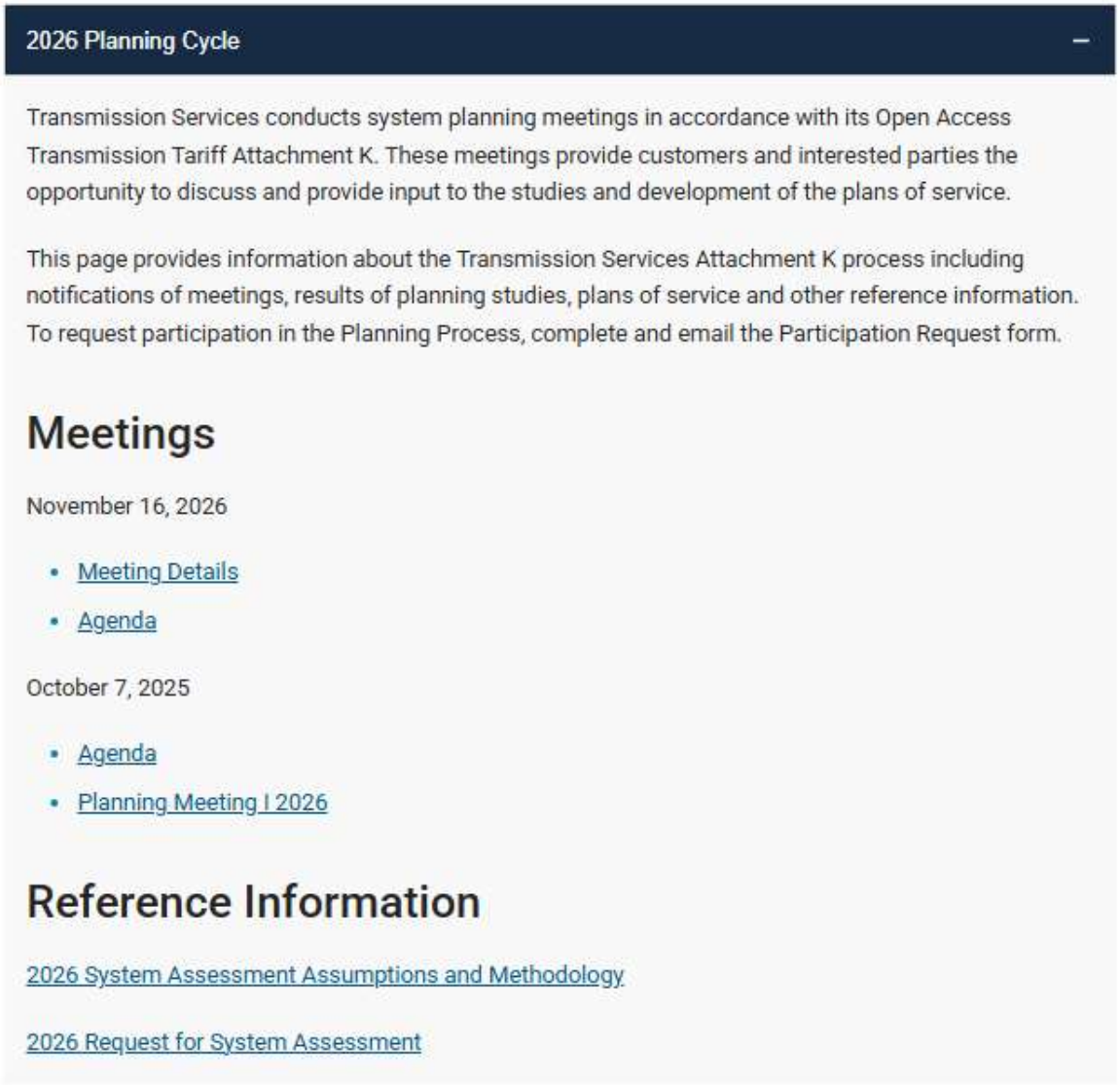
BPA's Attachment K Planning Process Website

https://www.bpa.gov/energy-and-services/transmission/attachment-k

BPA's Attachment K Planning Process Website



BPA's Attachment K Planning Process Website



2026 Planning Cycle –

Transmission Services conducts system planning meetings in accordance with its Open Access Transmission Tariff Attachment K. These meetings provide customers and interested parties the opportunity to discuss and provide input to the studies and development of the plans of service.

This page provides information about the Transmission Services Attachment K process including notifications of meetings, results of planning studies, plans of service and other reference information. To request participation in the Planning Process, complete and email the Participation Request form.

Meetings

November 16, 2026

- Meeting Details
- Agenda

October 7, 2025

- Agenda
- Planning Meeting I 2026

Reference Information

2026 System Assessment Assumptions and Methodology

2026 Request for System Assessment

Expand Planning Cycle for details

BPA's Attachment K Planning Process Website

- **E-mail Information**
  - ***PlanningParticipationRequest@bpa.gov***
  - ***PlanningEconomicStudyRequest@bpa.gov***
- **Meetings**
  - Meeting announcements, agendas, etc.
- **Economic Studies**
  - Requesting and Tracking Economic Studies
- **Reference Information**
  - Materials associated with the Planning Process, participation forms, etc.
- **Links**
  - Links to information related to the Planning Process

Economic Study Requests

- What is an Economic Study?
  - Studies may be requested to address congestion issues or the integration of new resources and loads.
- How are Requests for Economic Studies submitted?
  - Use the Economic Study Request Form on the Attachment K website
  - Submit to PlanningEconomicStudyRequest@bpa.gov
- Requests may be submitted any time…

  Requests submitted after October 31 will be considered in the next prioritization process.
- BPA will complete up to two Economic Studies per year at its own expense.
- There were no Economic Study Requests received during the study cycle which closed on October 31, 2026.

CFR Customers

BPA provides contracted Transmission Planning services for the following NT customers who have Coordinated Functional Registrations (CFR) with NERC.

- Klickitat County PUD
- Lewis County PUD
- Northern Wasco County PUD
- Pend Oreille PUD
- Umatilla Electric Cooperative
- Whatcom PUD
- Lower Valley Energy

CAPs (2026 Planning Cycle)

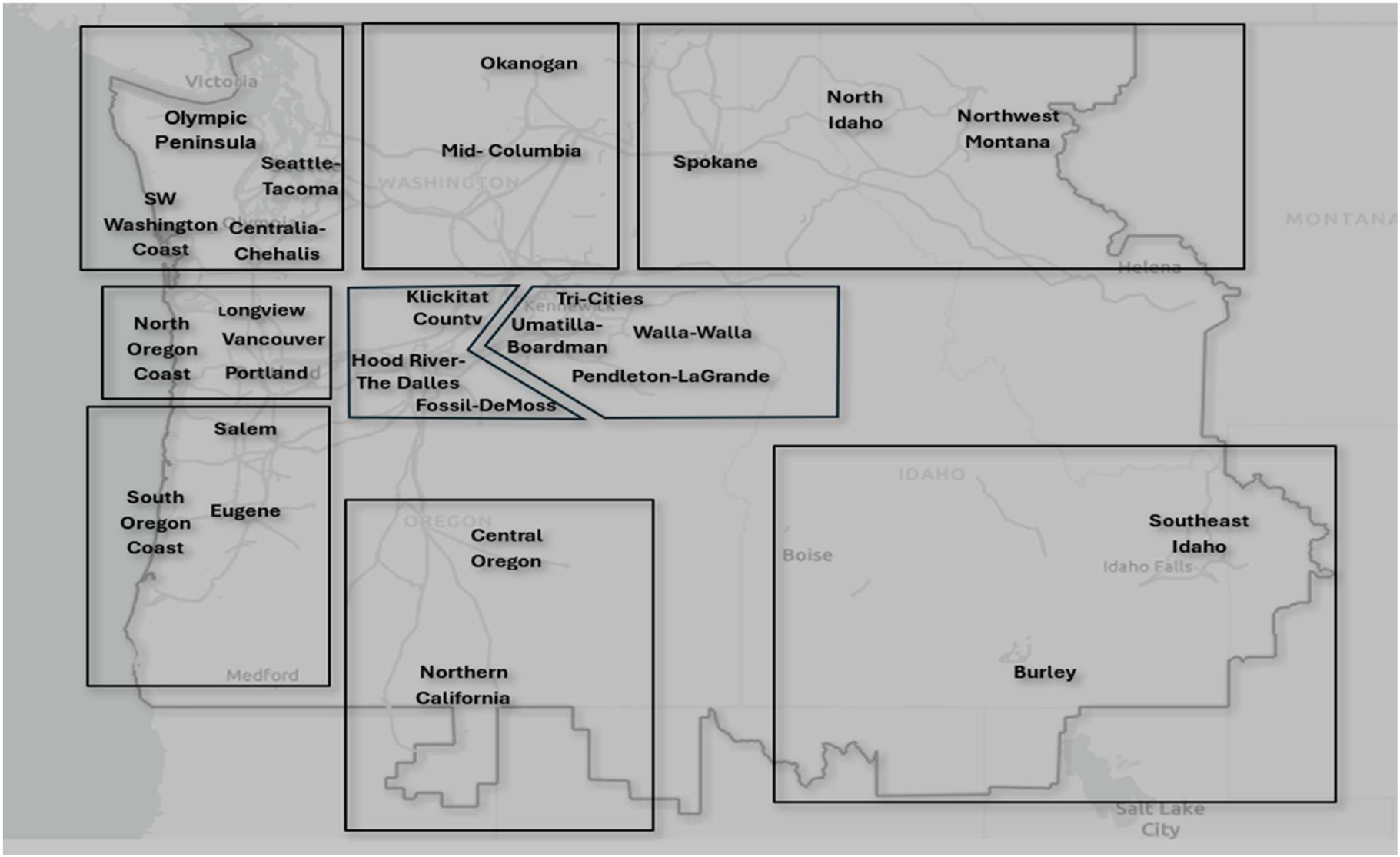
- Most of the Corrective Action Plans (CAPs) on the following slides, have been developed to maintain compliance with the applicable planning reliability standards and criteria
- The following standards and criteria were applied in development of the proposed CAPs:
  - **NERC Reliability Standard TPL-001-5.1**
    (North American Electric Reliability Corporation)
  - **WECC Reliability Criteria TPL-001-WECC-CRT-4**
    (Western Electricity Coordinating Council)
- The remaining plans of service provide needed equipment upgrades or improve operational or maintenance flexibility

CAPs (2026 Planning Cycle)

- The 2026 System Assessment scope evaluated 27 load service areas and 18 paths/interties (consistent with previous cycle).
- Study Methodology: Validated 2025 assessment results across all load areas per NERC TPL standards; additionally, the Vancouver, WA area required a dedicated performance analysis due to substantial load growth at Sifton Substation.

Bold text indicates an In-Service Date (ISD) or status change as compared with last year's update. ISDs are subject to change

Planning and Load Service Areas



CAPs (2026 Planning Cycle)

Vancouver Load Area Detail Study identified the following 2 new CAPs, adding to 17 CAPs from the prior cycle.

- Upgrade and replace 230/115 kV transformer banks #1 and #2 at Sifton substation in the Vancouver load area. Need date: 2030.
- Install a 115 kV bus sectionalizing breaker at Sifton substation and re-terminate existing branches to balance load across bus sections. Need date: 2031.

Equipment Upgrades From Short Circuit Study (2026 Planning Cycle)

- The 2026 System Assessment Short Circuit Study identified three 230 kV breakers exceeding fault duty interrupting limits at Keeler Substation.
- Replace with higher-rated fault-interrupting breakers:
  - A-858: Group 2 reactive breaker
  - A-870: Keeler – Horizon 230 kV line #1 breaker
  - A-897: SVC breaker

Equipment Upgrades From Short Circuit Study (2026 Planning Cycle)

- The 2026 System Assessment Short Circuit Study identified seven 230 kV disconnect switches with inadequate short-circuit withstand ratings.
- Replace these underrated disconnect switches:
  - Keeler 230 kV substation, disconnect switches A-896 AB, A-896 LS, transformer bank #3
  - Keeler 230 kV substation, disconnect switches A-858 AB, A-858 RB, Group 2 reactive
  - Keeler 230 kV substation, disconnect switches A-860 AB, A-860 LS and A-860-MB, transformer bank #1

In-Service Date / Status

- **In-Service Date Status:** Indicates projects active in planning pending funding, design, procurement, or formal scheduling.
- **Planning Stages:**
  - **Conceptual** – High-level planning solution prior to project initiation; engineering schedule not yet established.
  - **Preliminary** – In early-stage of project development (e.g., Project Requirements Document preparation).
  - **Scoping** – Actively defining project scope, cost estimates, and implementation timeline.

Project Updates

Seattle/Tacoma Area

Project	In-Service Date
Monroe – Novelty 230 kV line upgrade	2028
Covington 500/230 kV banks #4 and #5 upgrade	2029
Snohomish 230/115 kV banks #1, #2 and #3 replacement	2028
Sno-King 230/115 kV bank #3 PCB bushings CTs upgrade	Preliminary
Maple Valley 230 kV shunt reactor addition	Preliminary

Centralia/Chehalis

Project	In-Service Date
Silver Creek 230 kV bus sectionalizing breaker addition	2028

Project Updates

SW Washington Coast Area

Projects	In-Service Date
Aberdeen – Aberdeen Tap to Cosmopolis – Satsop Park 115 kV #1 line upgrade	2028
Naselle shunt capacitor replacement	2028
South Elma 115 kV substation capacitor addition	Preliminary
Cosmopolis – Aberdeen 115 kV line upgrade	Preliminary

Olympic Peninsula Area

Projects	In-Service Date
Kitsap 115 kV shunt capacitor relocation	2029
Shelton – Fairmount 115 kV #1 line upgrade	2029

Project Updates

Portland Area

Project	In-Service Date
Pearl – Sherwood 230 kV line reconfiguration	2026
Carlton 230 kV and 115 kV breaker additions (O&M Flexibility)	2026
Forest Grove – McMinnville 115 kV line upgrade (O&M Flexibility)	2026
Troutdale 230 kV series bus sectionalizing breaker addition	2027
Pearl 230 kV bus sectionalizing breaker addition	Complete
Keeler 230 kV bus sectionalizing breaker addition	**2030**
Keeler 500 kV bus reconfiguration and 500/230 kV transformer #2 incremental singular bank addition	2031

Project Updates

North Oregon Coast Area

Project	In-Service Date
High-side breaker/switchgear for Clatsop transformer replacement	2027
Clatsop 230/115 kV transformer upgrade	Preliminary
Second Driscoll UVLS relay	Preliminary

Project Updates

Vancouver Area

Project	In-Service Date
Sifton 230/115 kV transformer bank #1 and #2 upgrades	**Conceptual**
Sifton 115 kV bus sectionalizing breaker addition and load re-balancing	**Conceptual**

Eugene Area

Project	In-Service Date
Lookout Point – Alvey #1 and #2 transfer trip addition	2026
Alvey – Dillard Tap 115 kV line rebuild	2028

Project Updates

Salem/Albany Area

Project	In-Service Date
Chemawa 300 MVA, 230/115 kV transformer bank replacement	Preliminary
Lebanon 300 MVA, 230/115 kV transformer bank new addition	Preliminary
Santiam 500/230 kV transformer bank #4 230 kV PCB A542 and associated line side disconnect switch upgrade	Preliminary

Project Updates

Mid-Columbia Area

Project	In-Service Date
Grand Coulee 230 kV fault reduction project	2029
Ellensburg 115 kV shunt capacitor expansion	Preliminary
Valhalla B-288 bushing CT #2 upgrade	Preliminary
Columbia 115 kV breaker (B-400) CT (C05409) upgrade	Completed

Okanogan

Project	In-Service Date
East Omak shunt capacitor addition (21 Mvar)	Preliminary

Project Updates

Lower-Columbia Area

Hood River/The Dalles Area

Project	In-Service Date
Big Eddy 230 kV redundant bus differential protection addition	2029
Northern Wasco County Peoples Utility District's Big Eddy – The Dalles 115 kV upgrade	Preliminary

Project Updates

Tri-Cities Area

Project	In-Service Date
Sacajawea – Ice Harbor-Franklin #1 115 kV line addition	Scoping

Central Oregon Area (includes Alturas Area)

Project	In-Service Date
Bonanza 500/230 kV substation addition	Scoping
Bonanza – La Pine 230 kV line addition	Scoping
Warner 115 kV +/- 100 Mvar STATCOM addition	2030

Project Updates

Northwest Montana Area

Project	In-Service Date
Conkelley substation retirement	2027
Columbia Falls 230/115 kV transformer banks #2 and #3 replacement	Preliminary
Columbia Falls 115/34.5 kV transformer bank replacement	Preliminary

Project Updates

North Idaho Area

Project	In-Service Date
Libby Power House #1 and #2 redundant transfer trip	2026
Troy 115 kV Shunt Capacitor (12.6 Mvar) addition	2032
Troy Substation Expansion Project and breaker addition	2032

Project Updates

Burley Load Area

Project	In-Service Date
Heyburn – West Burley 138 kV line upgrade	Preliminary

Project Updates

SE Idaho/NW Wyoming Area

Project	In-Service Date
• Rebuild Creek – Palisades and Palisades – Swan Valley 115 kV lines to 161 kV with additions:	Preliminary
161/115 kV transformer at Palisade	Preliminary
161/115 kV transformer at Swan Valley	Preliminary
• At Targhee:	
Replace Targhee 115 kV tap with new substation	Preliminary
Add16.5 Mvar shunt capacitor	Preliminary
Reconductor Targhee – Swan Valley and Targhee – Drummond 115 kV lines	Preliminary
• At Teton 115 kV substation:	
Add bus sectionalizing breaker	Preliminary
Add 12.6 Mvar shunt capacitor	Preliminary

Project Updates

West of Cascades North (WOCN) Path

Project	In-Service Date
Schultz – Raver 500 kV #3 and #4 series capacitors	**2032**
Schultz – Raver 500 kV #3 and #4 reconductor	2032

Significant Planned Projects

Buckley Air Insulated Substation

Description

Buckley 500 kV conventional Air Insulated Substation (AIS) is a permanent replacement of a Buckley Gas Insulated Substation (GIS). Currently, the GIS is bypassed by a temporary three terminal emergency bypass until a new AIS is built. Buckley AIS will be configured in a breaker and half scheme that will provide opportunities for future system expansion.

Expected Energization

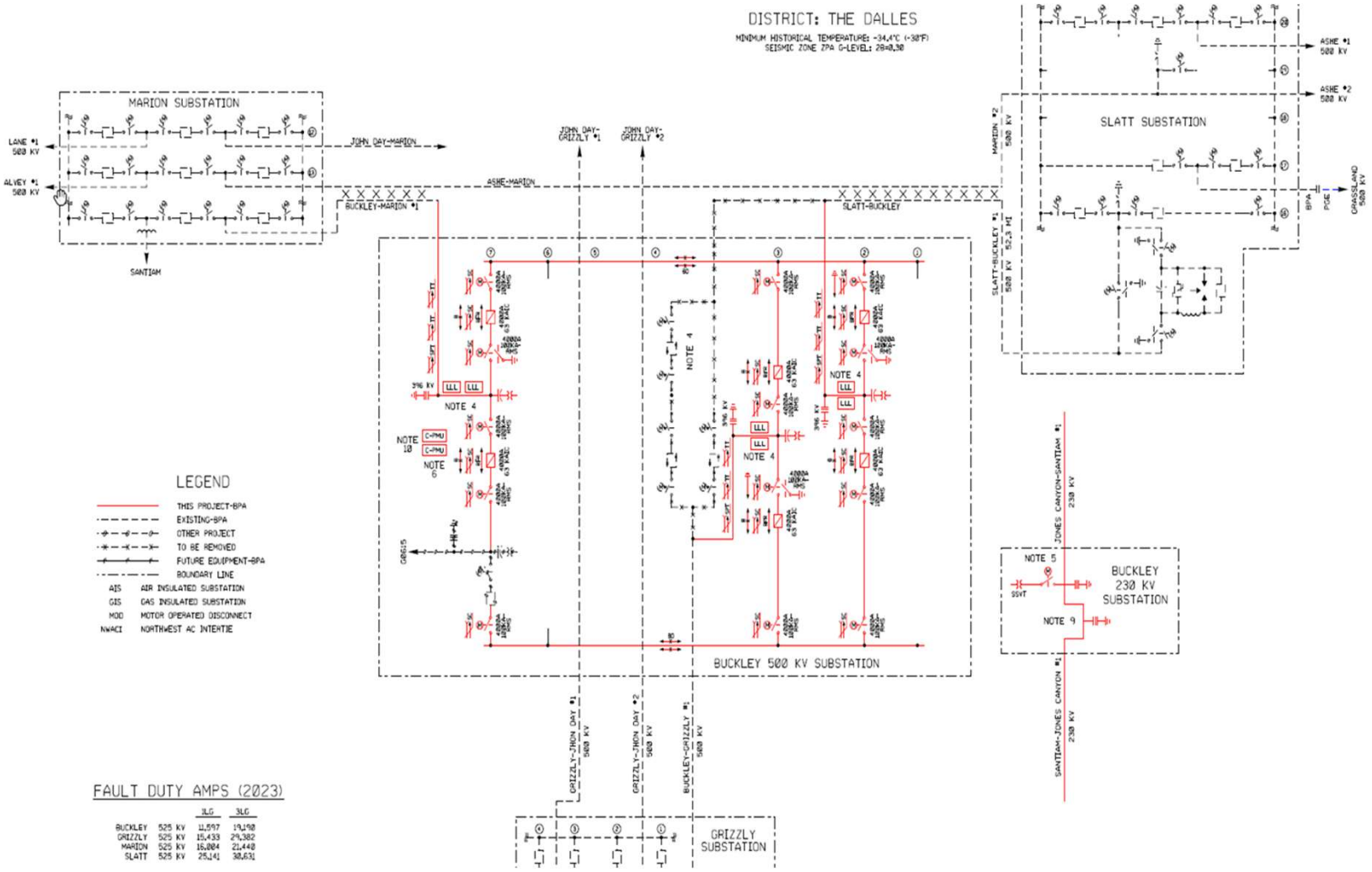
2031

Estimated Cost

$318,000,000

Significant Planned Projects

Buckley Air Insulated Substation



Significant Planned Projects

Six Mile Canyon Substation

Description

Six Mile Canyon 500 kV substation is a new 500/230 kV substation on mile 56 of the Ashe – Slatt 500 kV line, with the line looped in and out of the substation. Proposed to interconnect UEC load in the West of Boardman area. In scoping phase.

Expected Energization

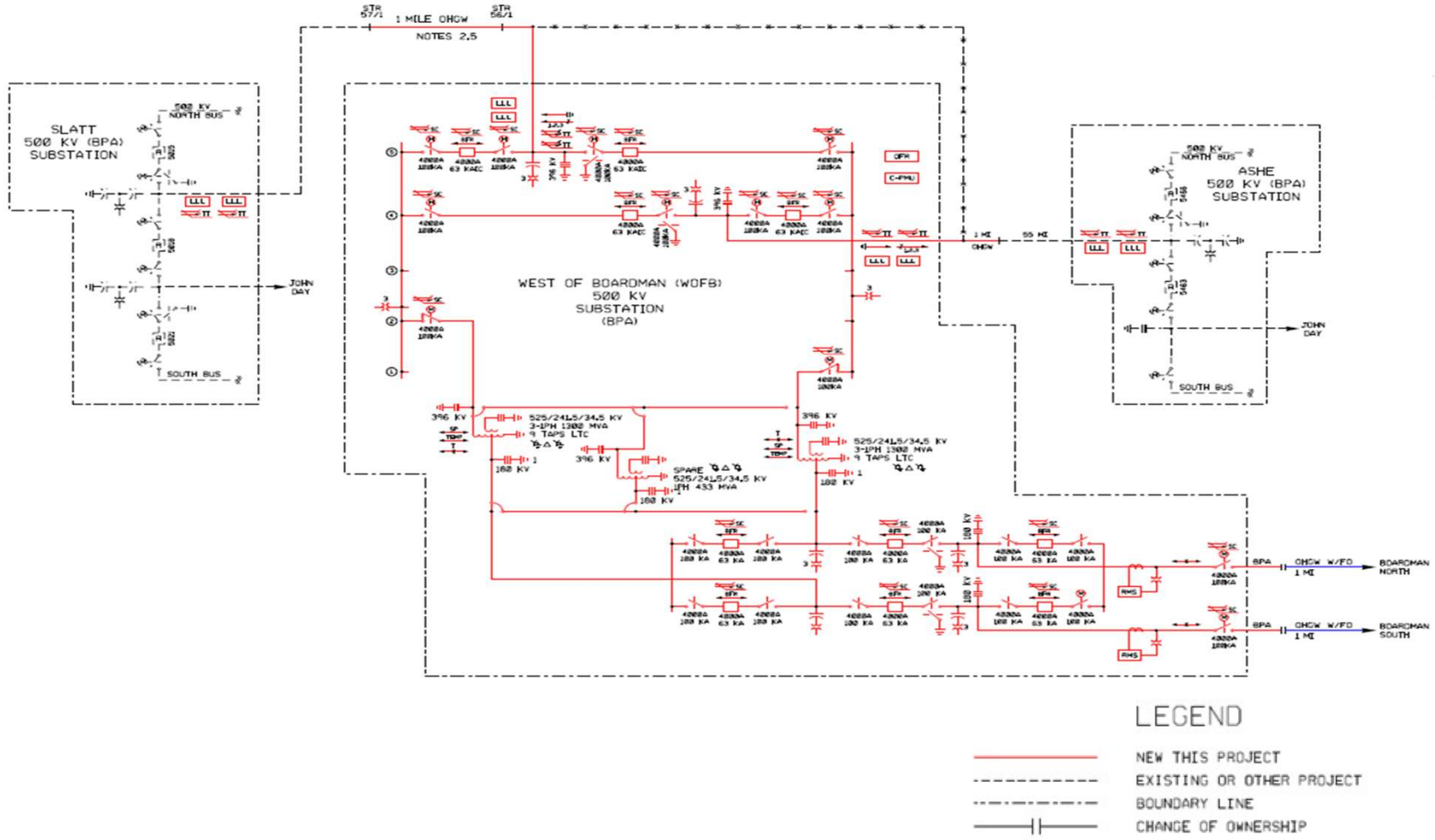
2028

Estimated Cost

$355,000,000

Significant Planned Projects

Six Mile Canyon Substation



Significant Planned Projects

Tri-Cities Load Area Projects

Description: **McNary-Paterson Tap** – This project adds a new 115 kV bay at McNary and a parallel 115 kV line from McNary to Paterson Tap (2 miles).

Project Status: In-Service.

Description: **Red Mountain-Horn Rapids 115 kV Line Reconductor** – This project will reconductor the Red Mountain–Horn Rapids 115 kV section of BPA's Red Mountain–White Bluffs 115 kV transmission line (4 miles).

Project Status: In-Service

Significant Planned Projects

Tri-Cities Load Area Projects – continued

Description: **Richland-Stevens Drive** – This project constructs a new 115 kV line to create a double-circuit from Richland to Stevens Drive switching station (3 miles).

Project Status: This is an approved project in design.

Estimated In-Service Date: **Fall 2027**

Estimated Cost: $68,100,000

Description: **South Tri-Cities Reinforcement** - This project constructs a 500 kV substation on the Ashe-Marion #2 500 kV line with a 500/115 kV transformer, and a 115 kV line to Badger Canyon (17 miles).

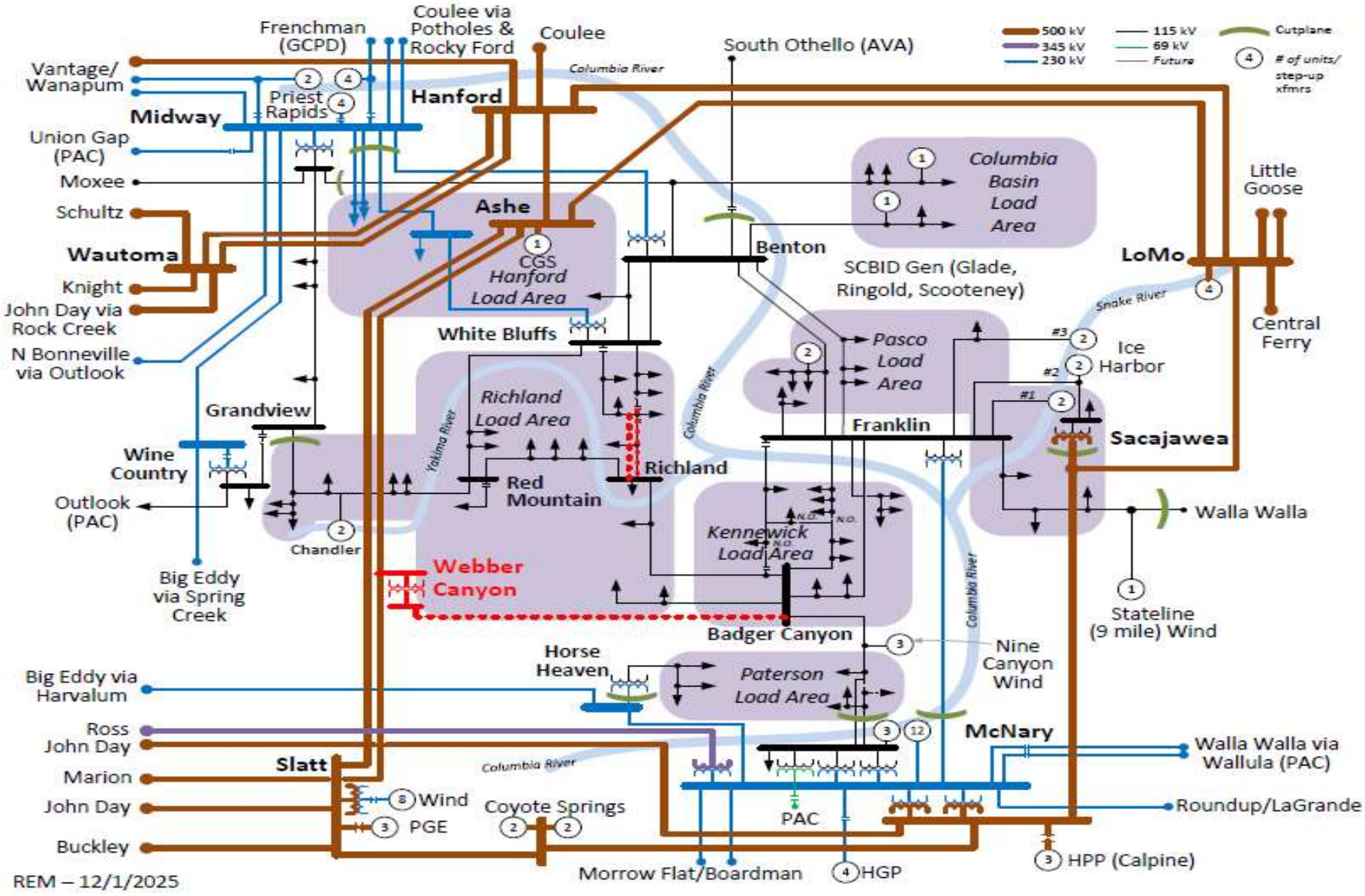
Project Status: Tri-Cities Reinforcement is an approved project in construction.

Estimated In-Service Date: **2029**

Estimated Cost: $477,100,000

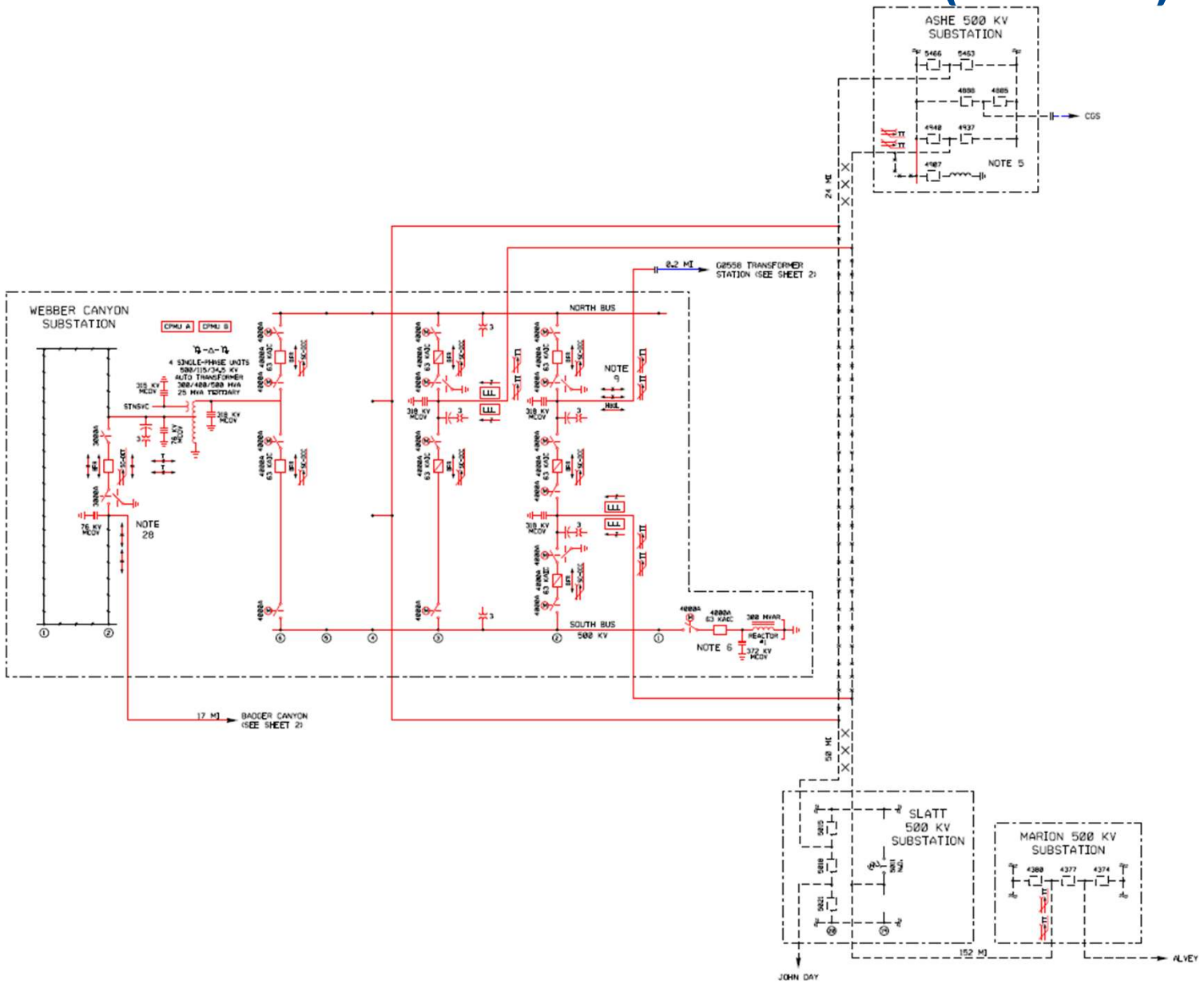
Significant Planned Projects

South Tri-Cities Reinforcement



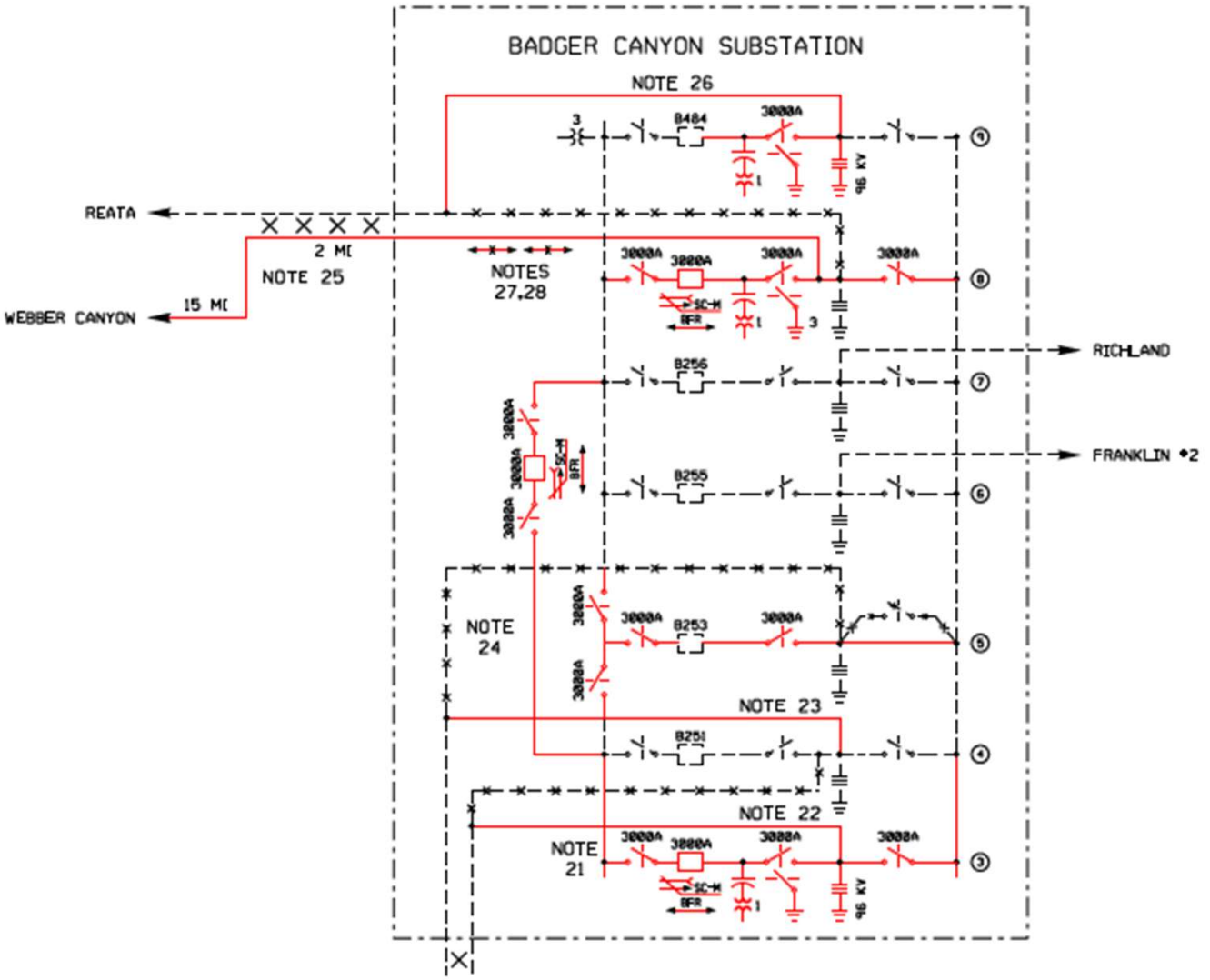
Significant Planned Projects

South Tri-Cities Reinforcement (sheet 1)



Significant Planned Projects

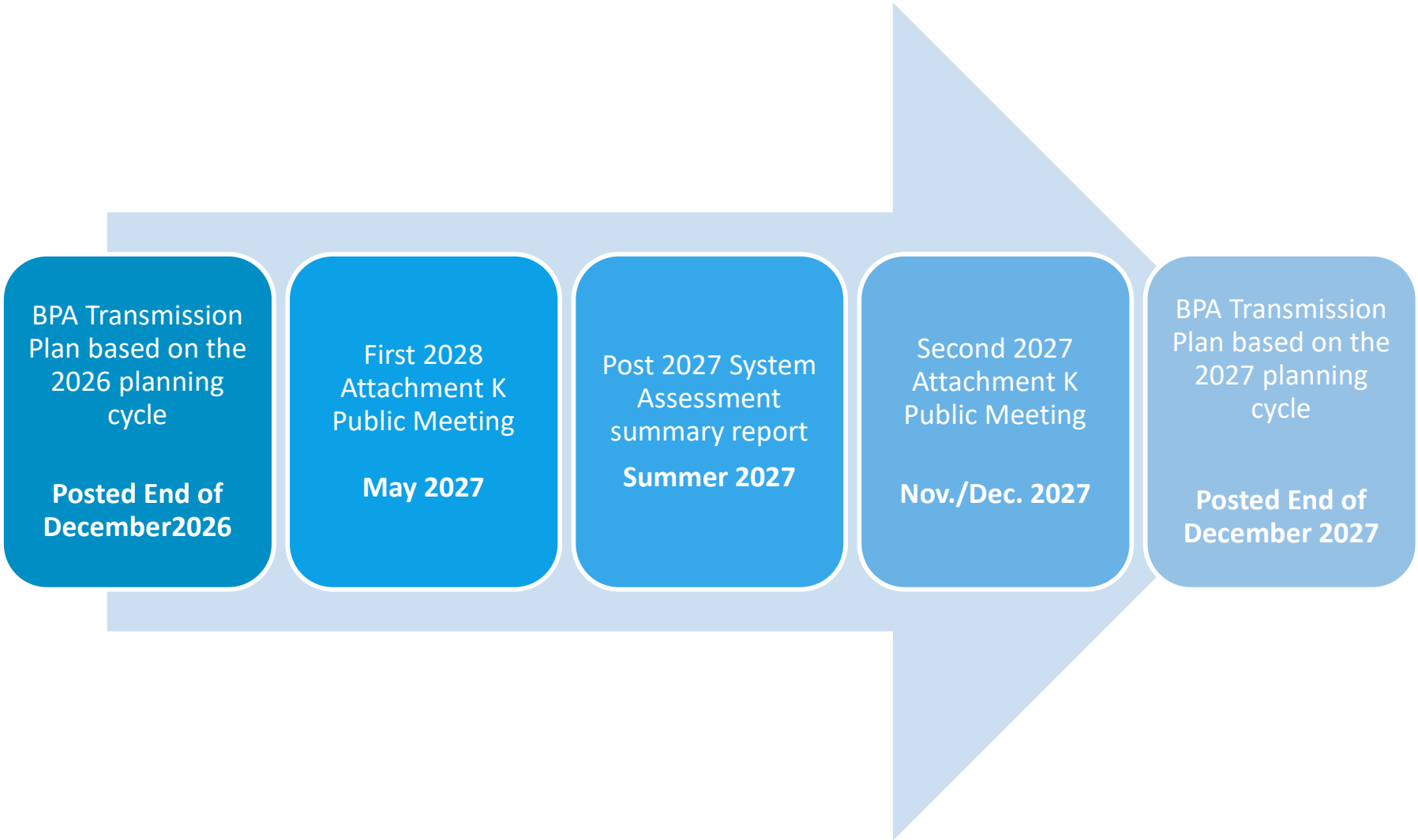
South Tri-Cities Reinforcement (sheet 2)



Next Steps

- **End of December 2026:** Update the BPA Transmission Plan based on the 2026 planning cycle and post to BPA.gov.
- **May 2027:** First 2028 Attachment K Meeting
- **Summer 2027:** Post 2027 System Assessment summary report
- **November 2027:** Second 2027 Attachment K Public Meeting
- **End of December 2027:** Update the BPA Transmission Plan based on the 2027 planning cycle and post to BPA.gov.

Next Steps


BPA Transmission Plan based on the 2026 planning cycle
Posted End of December2026
First 2028 Attachment K Public Meeting
May 2027
Post 2027 System Assessment summary report
Summer 2027
Second 2027 Attachment K Public Meeting
Nov./Dec. 2027
BPA Transmission Plan based on the 2027 planning cycle
Posted End of December 2027

Questions



Sign up to participate in future meetings or receive additional information by:

Filling out the Participation Request form on BPA's Planning Process website and sending it via e-mail to:

PlanningParticipationRequest@bpa.gov