

Regional Engagement Committee Meeting

October 8th, 2026

Agenda

- » Opening Remarks
- » Tribal Engagement Updates
- » WATT Updates
- » Benefits Subgroup Updates
- » Next Steps & Upcoming Meetings
- » Public comment



WESTTEC REC

TRIBAL ENGAGEMENT UPDATES

- October- Attended The Western Transmission Consortium (TWTC) Board of Directors Dinner, Retreat, and meeting at the Western Power Pool on October 1st. September 30th was the TWTC Dinner at Salty's on the Columbia with 30 guests in attendance, and we had one special guest BPA Administrator Travis Kavulla.
- September- WestTEC's Sarah Edmonds and the Western Resource Advocates have identified an opportunity to bring together an invited list of Tribal participants to enhance the future efforts of WestTEC 2.0 Tribal engagement to identify what does Tribal engagement look with WestTEC, and how can the dialogue become more robust. Sarah and I connected and I have also provided advisement and suggestion on PNW Tribal participants, and there were 3 dates outlined for the Tribal workshops starting in November, December, and January.
- Engaged with the Association of Washington Tribes and working on promoting and providing more information on WestTEC and Tribal participation due to the interest in intersecting discussions on WestTEC's inclusion as drivers for future transmission planning in the State of Washington.

WATT Update

Agenda

- » Flux scenario/SRA update
 - » SRA nearly complete; IDA under development
 - » Review materials to WATT next week
- » Portfolio Synthesis
 - » Workbook with all projects across all scenarios to be published to WestTEC sharepoint (incl. REC)
- » Benefits & Extreme Events update
 - » Proceeding with “persistent upgrades” used in benefits assessment
 - » Finalizing counterfactual

Assessment	Model	Reference	Core	Flux
Congestion	PCM			
SRA	Heavy Summer			
SRA	Heavy Winter			
SRA	High Wind			
SRA	High Solar			
IDA	MT-PNW			
IDA	NM-CO			
IDA	CA N to PNW			
IDA	CA OOS			
Benefits	Counterfact'l		N/A	
Benefits	Extreme Event		N/A	

Not started
 Under construction
 Draft/review
 Complete



Timeline

	8/24 - 8/28	8/31 - 9/4	9/7 - 9/11	9/14 - 9/18	9/21 - 9/25	9/28 - 10/2	10/5 - 10/9	10/12 - 10/16	10/19 - 10/23
ES Technical Work									
ES Draft Report									
Committee Meetings	All-Committees			WATT – 9/15 REC – 9/17			WATT – 10/6 REC – 10/8		

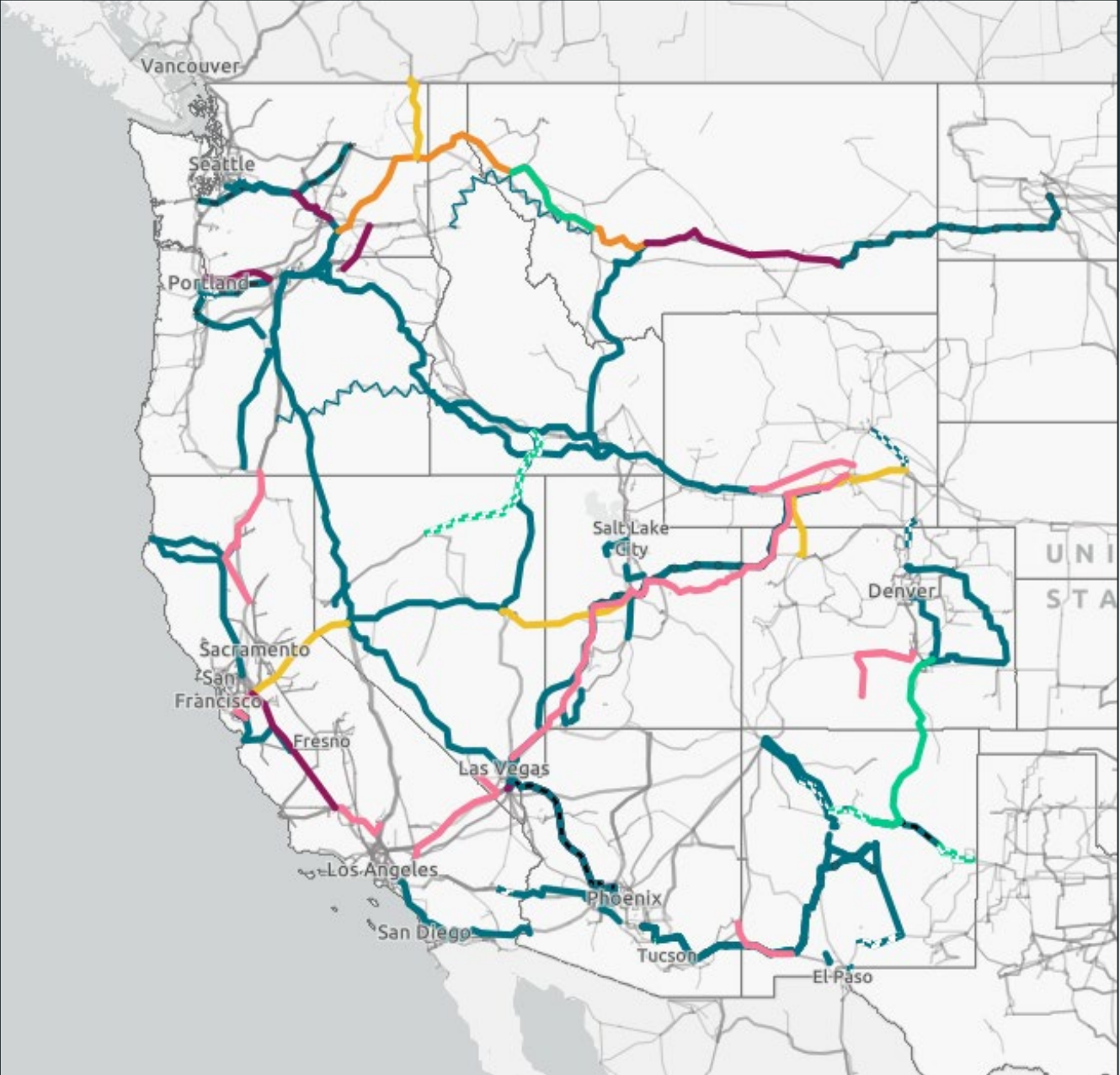
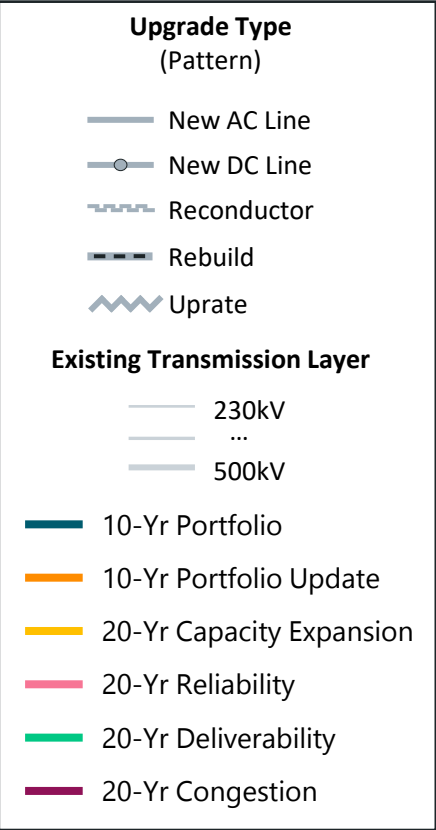
	10/26 - 10/30	11/2 - 11/6	11/9 - 11/13	11/16 - 11/20	11/23 - 11/27	11/30 - 12/4	12/7 - 12/11	12/14 - 12/18	12/21 - 12/31
ES Draft Report									
Committee Review			WATT/REC Review				Steering Review		
Committee Meetings	All-Committees – Oct 28			WATT & REC Joint Review – 11/17			Steering Vote 12/9		
Report Finalization									



Upcoming Project Milestones & Review

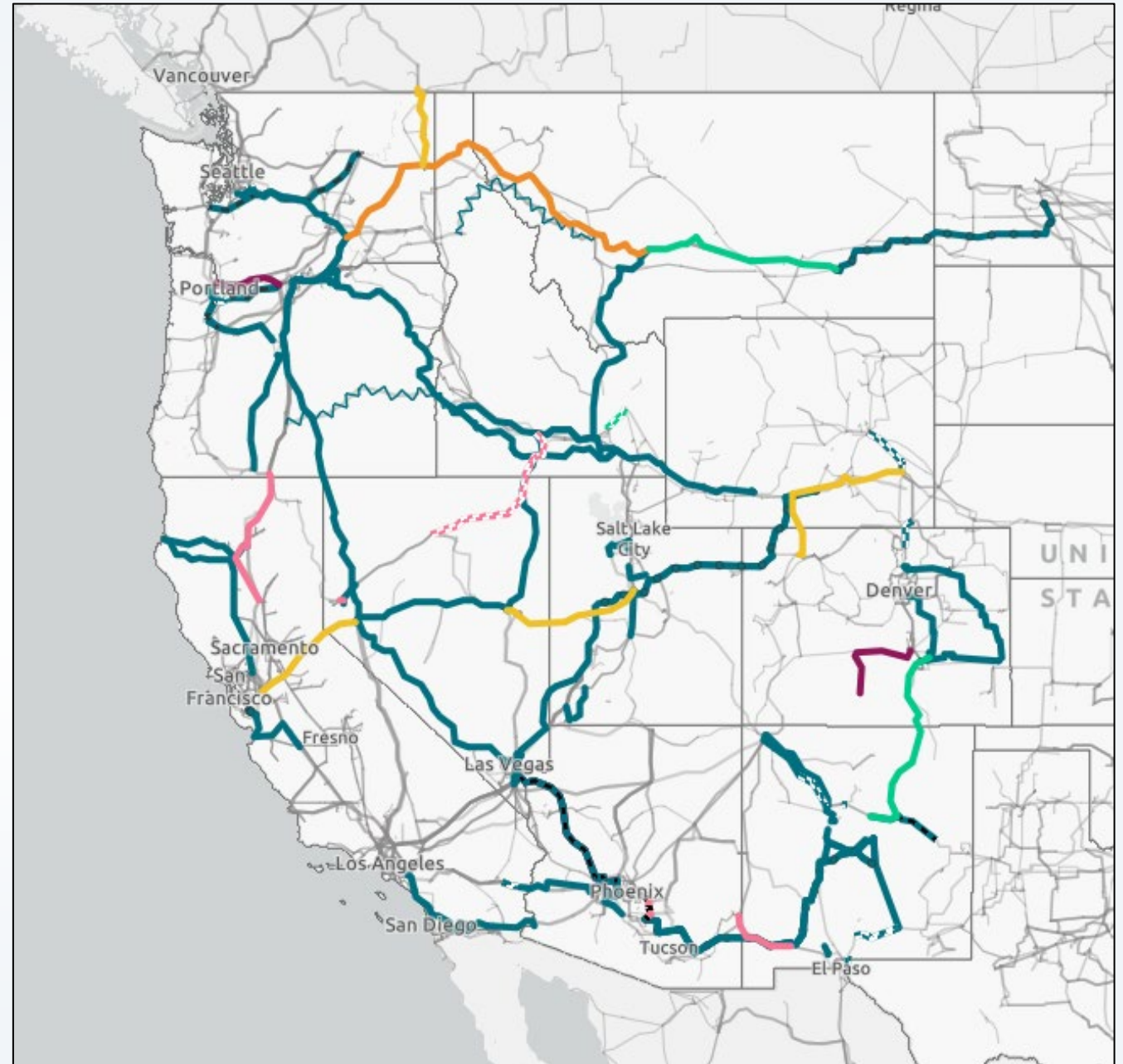
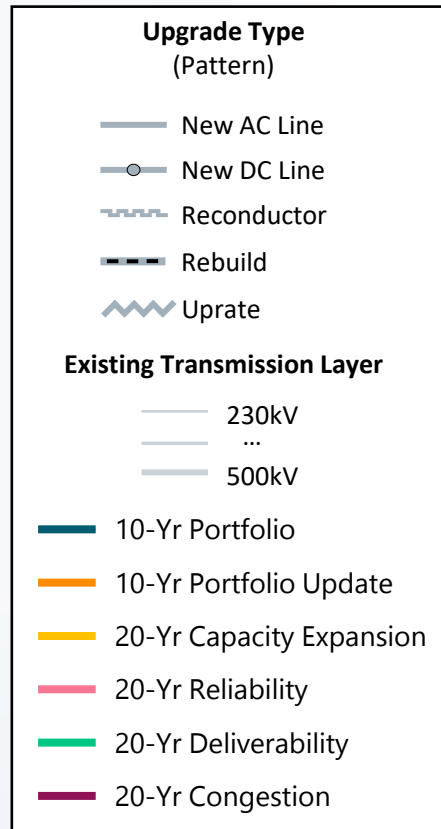
Tasks	Week 1 8/31 – 9/4	Week 2 9/7 – 9/11	Week 3 9/14 – 9/18	Week 4 9/21 – 9/25	Week 5 9/28 – 10/2	Week 6 10/5 – 10/9	Week 7 10/12 – 10/16	Week 8 10/19 – 10/23	Week 9 10/26 – 10/30	Week 10 11/2 – 11/6	Week 11 11/9 – 11/13	Week 12 11/16 – 11/20	Week 13 11/23 – 11/30
Project Milestones			WATT/REC			WATT/REC			All-Committee		Review Draft Report		
Core IDA			Review										
Flux SRA						Review	Review						
Flux IDA							Review?	Review?	Review				
CF: Replace Piecemeal w/ Portfolio Projects													
Draft Ref/CF Benefits						Review							
Core Routing & Costing						Review							
Flux Routing & Costing									Review				
Portfolio Synthesis									Review				
Final Benefits Calc w/ Persistent Tx									Review?	Review?	Review		
PCM Multi-Weather Years									Review				
Extreme Event Modeling									Review?	Review?	Review		

2045 Reference Case Upgrades Map



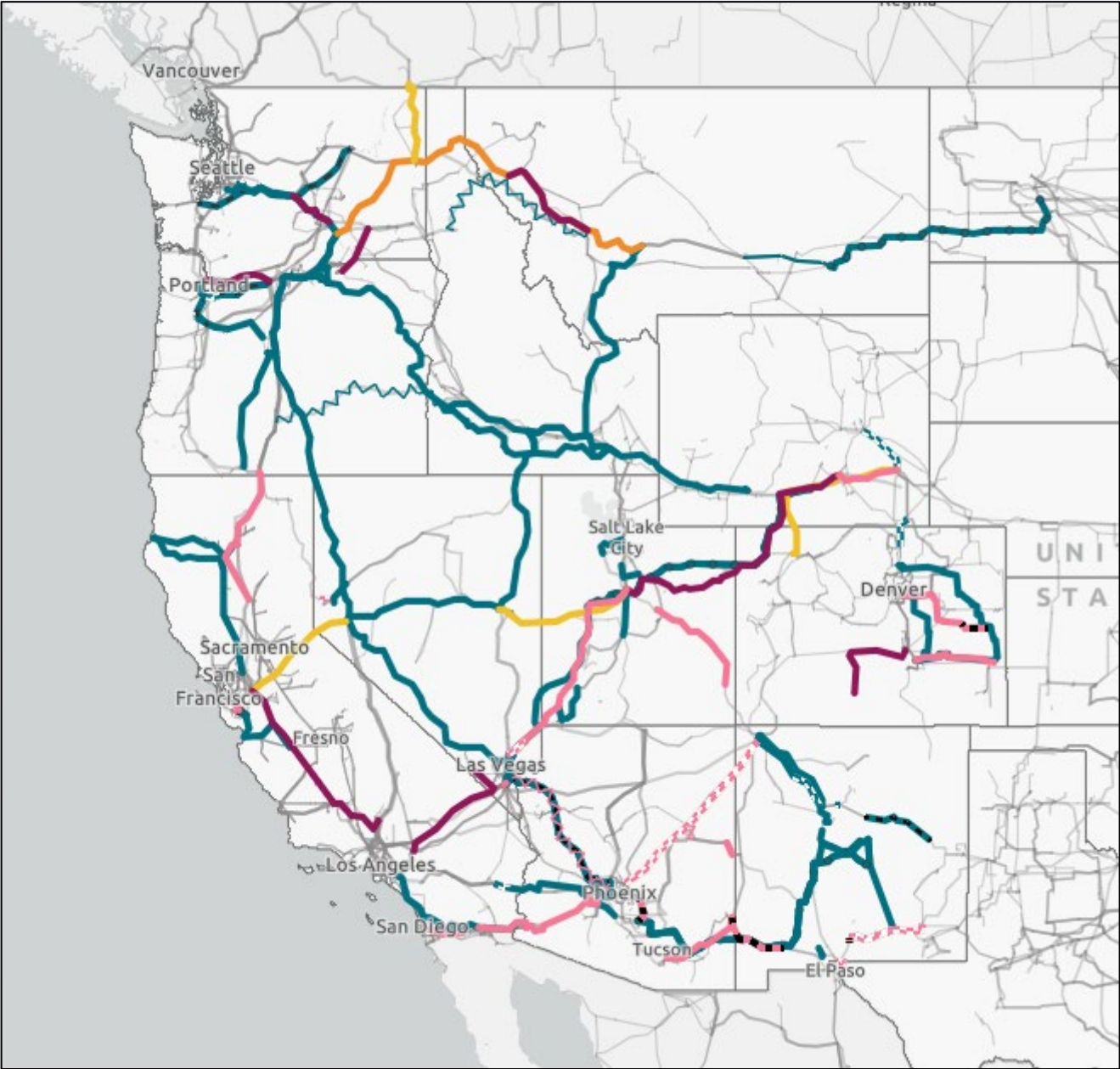
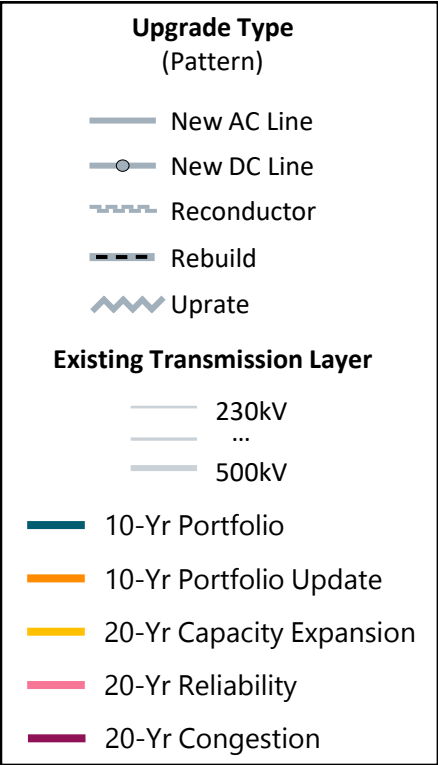
2045 Core Case Upgrades Map

(Draft and Subject to Change)



2045 Flux Case Upgrades Map

(Draft and Subject to Change)



2045 Flux Case Map

(Working Draft & Subject to Change)

» Flux scenario includes most SRA upgrades from the reference case as well as new transmission required to support additional resources added in the flux case

» Total Line Miles by 2045:

» Reference: ~17,300 (\$91B)

» Core: ~14,700 (\$75B)

» 18% reduction

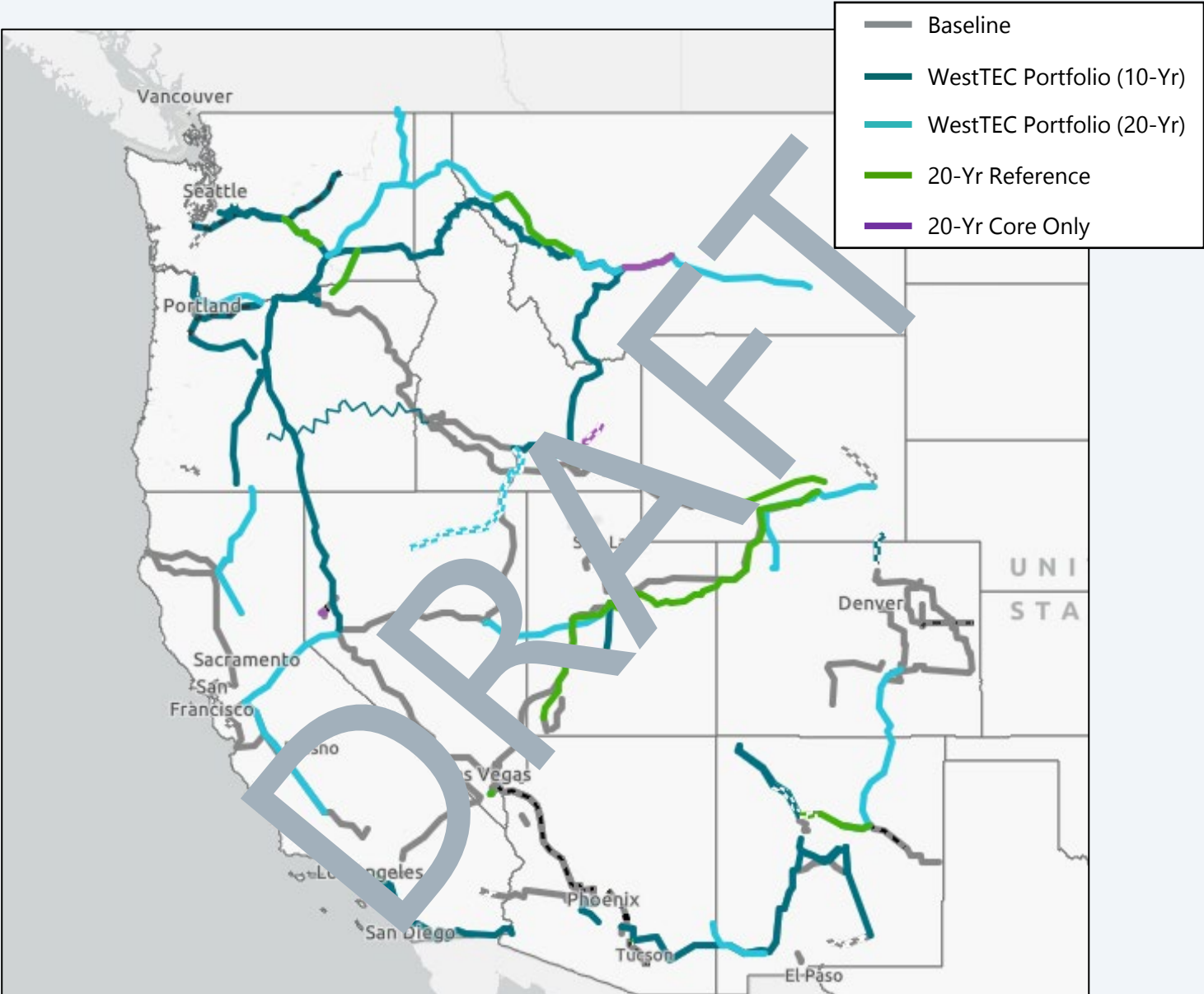
» Flux: TBD

20-Year Reference Portfolio Summary

Upgrade Category	Reference Total Line Miles	Reference Total Cost Estimate	Core Total Line Miles	Core Total Cost Estimate	Flux Total Line Miles	Flux Total Cost Estimate
Capacity Expansion	1,535	10,856	1,535	10,856	1,535	10,856
System Reliability Assessment	1,793	12,139	149	974	2,359	7,428
Interarea Deliverability Assessment	722	3,163	318	1,527	TBD	TBD
Congestion Assessment	686	5,285	80	1,360	TBD	TBD
Total	4,736	31,443	2,081	14,717	TBD	TBD

10-Year Persistent Projects (1 of 2)

Project Name
Montana to Washington (M2W)
Bonanza to Lower Columbia 500kV Reinforcement - Six Mile
Bonanza to Lower Columbia 500kV Reinforce - Longhorn to Bonanza
Bonanza to Lower Columbia 500kV Reinforcement - Bonanza
Big Eddy - Ostrander-Pearl rebuild
Cross Cascades North Upgrade TSEP 2022
Grand Coulee - Columbia - Schultz 500-kV
Schultz - Olympia 500 kV Transmission Line
Imperial Valley–North of SONGS 500 kV Line and Substation
North Gila - Imperial Valley #2
North of SONGS–Serrano 500 kV line
Serrano–Del Amo–Mesa 500 kV Transmission Reinforcement
Corral to Grassland Annex 500kV Line
Corral to Snow Goose 500kV Line
Grassland Annex to B2H Tap Substation 500kV Line
Sigurd - Clover 345 kV line
Jojoba to Rudd 500kV line
Hassayampa - Pinal West 500kV #2
Bethel-Round Butte 500kV upgrade
Harborton-Trojan #3 & #4 230kV



Persistent projects include projects from both the 10- and 20-year timeframe that mitigate persistent interregional or regional needs, but are not already under construction.

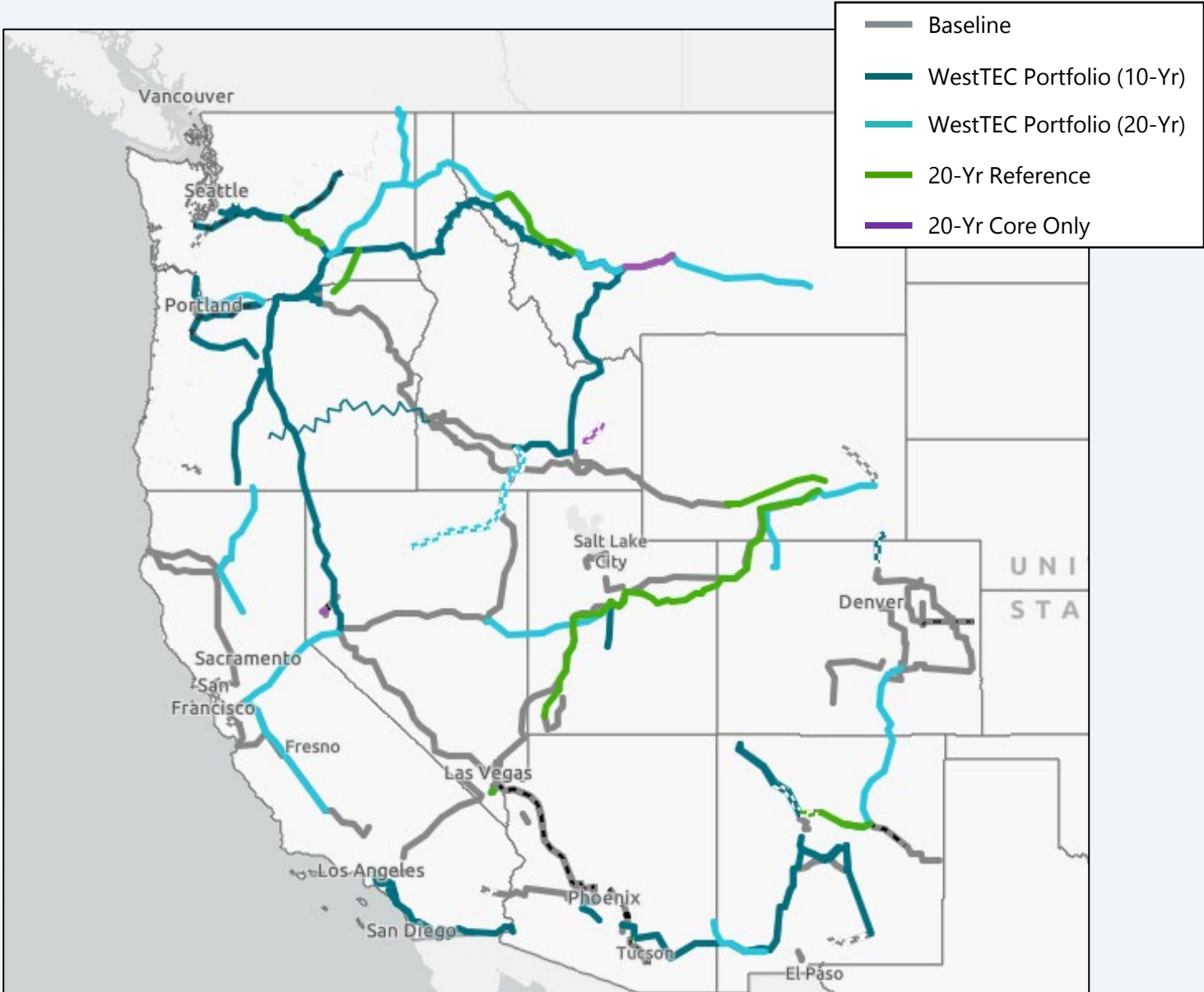
They **cannot** be included in the counterfactual model.

Map currently only shows persistent projects between Reference and Core. List and maps subject to change based on Flux scenario results.

10-Year Persistent Projects (2 of 2)

Project Name

Bolo Tie
Western Spirit - Chavez County 345kV Line
Western Spirit - Hidden Mountain 345kV #2 Line
Cross-Cascades Project
Add a new Townsend - Midpoint 500 kV transmission line
Four Corners - San Juan 345 kV ckt 2
New Four Corners - Pintado 345 kV ckt 2
New Rio Puerco - San Juan 345 kV ckt 2
Townsend - Ashe 500kV Line #1
Walker - Bonanza 500kV Line #1
Uprate Hemingway - Summer Lake Ckt 1 via Substation upgrades
Reconductor Rio Puerco - Pintado ckt 1 to 2160 MVA Capacity
RioSol
Colstrip - Broadview 500 kV series cap upgrade
Path 36 TOT 3



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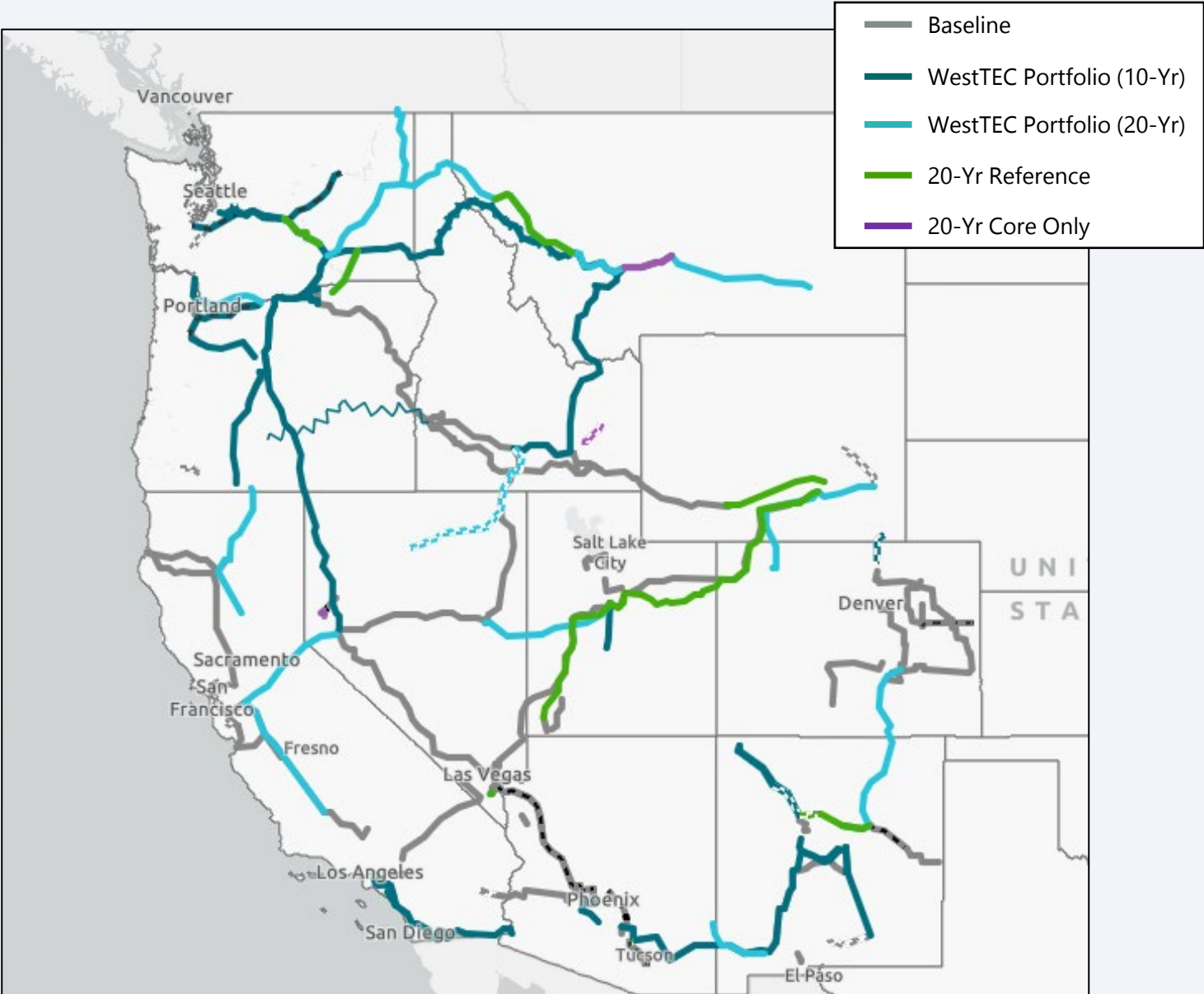
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20-Year Persistent Projects

Project Name
New BPA Bell BPA – Ashe 500 kV line ckt 1
New BPA Bell BPA – Ashe 500 kV line ckt 2
New BPA Bell BPA - GASH 500 kV line
New BPA Garrison – GASH 500 kV line
New Townsend - Garrison 500 kV line
Aeolus-Craig 500 kV Line
Aeolus-LRS 500kV Line
Cross Tie Transmission
Walker River – Tesla 500 kV line
Path 3 Expansion - Selkirk-Vaseux Lake Series Cap
Path 3 Expansion - Vaseux Lake-Nicola Series Cap
Path 3 Expansion - Selkirk-Ashton Creek Series Cap
Path 3 Expansion - Ashton Creek-Nicola Series Cap
Path 3 Expansion - New Bell-Selkirk ckt 1
Path 3 Expansion - New Bell-Selkirk ckt 2
Fern Road - Table Mt 500kV line
Captain Jack – Fern Road 500kV line
Greenlee – Luna 345kV line
Path 16 Reconductor
Clines Corner - Sandstone 345kV Line
Cascade Renewable Transmission Project
Broadview to Loco Mountain 500kV Line
Colstrip 500 to Broadview C 500kV Line

Map currently only shows persistent projects between Reference and Core. List and maps subject to change based on Flux scenario results.



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They **cannot** be included in the counterfactual model.

Transmission Portfolio Synthesis & Counterfactual

Transmission Grouping	Definition	Relevant Generation Portfolio	Purpose
Baseline upgrades	Under construction or planned projects that are sufficiently committed or developed. Can also include intraregional projects unavoidable in all futures. Likely to be primarily projects in 10-year Reference Case portfolio; but may include some 20-year projects.	N/A	Common and exogenous to transmission options being evaluated – included in all models
WestTEC Persistent Portfolio	Interregional upgrades common to all three futures (e.g., persistent)	Reference WestTEC resource portfolio	Portfolio whose value is being evaluated
Counterfactual Portfolio	Represents added local/intra-regional reinforcements required to maintain portfolio feasibility; can include changes to resource mix	Substitute local resources, DR, storage, gas/other backstop, etc.	Transmission that becomes necessary because WestTEC Portfolio is not built.

- We will not allow the Counterfactual Portfolio to gradually add projects in the Western Portfolio simply because PCM screening results become unfavorable.
- In some cases non-interregional projects are able to be incorporated into CF Portfolio

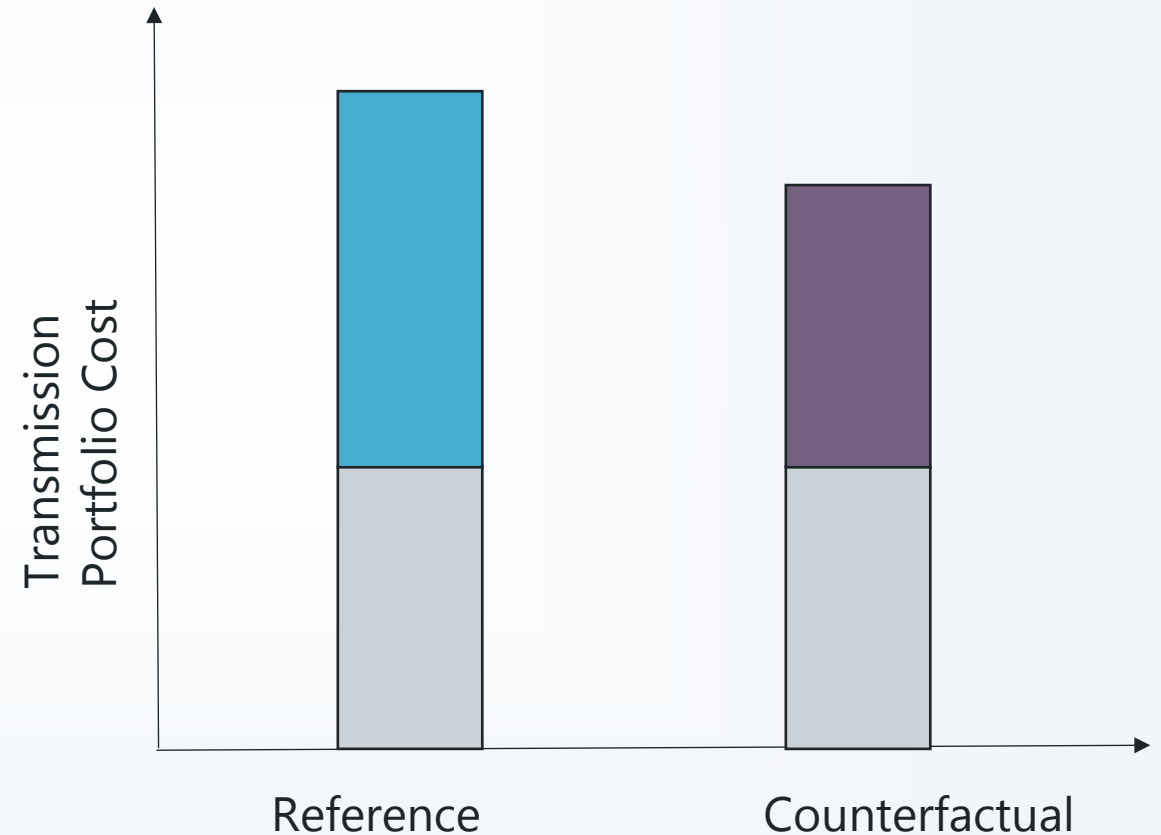
20-Year Projects Considered “Baseline” (Subject to Change)

Project Name
Midway – Poncha – San Luis Valley 345
Reconductor Monta Vista - Hicks 230kV Line
Reconductor Saratoga - Vasona 230kV Line
Tesla-Trimble - Metcalf 230kV line
Trout – Lugo 500kV line
Midway - Windhub 500kV ckt 1
Tracy - Olinghouse 345kV Rebuild Double Ckt ACCC
Rebuild Pinal Central - Q76 - Browning 500kV ckt 1 & 2 (3000 MVA)
Tracy E - Tracy W breaker upgrade
Taiban Mesa - Black Water 345kV Line
Windhub - Tesla 500 kV
Ft St. Vrain - Weld 230 kV Line



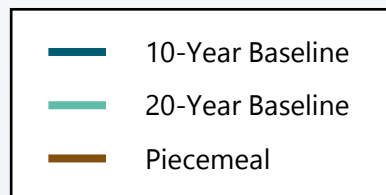
Transmission Portfolio Synthesis & Counterfactual

- » Benefits assessments will involve a comparison of:
- The 20-year WestTEC portfolio, which is primarily made up of regionally significant projects
 - A counterfactual including some unavoidable/baseline transmission plus additional piecemeal projects



2045 Counterfactual Map

(Draft and Subject to Change)



Benefits Subgroup Updates

- » Reconvening as requested for the month of October to support final round of analysis
- » Group will help address questions such as:
 - » Identification of persistent upgrades to be assessed in the benefits assessments
 - » Adjustment to operational benefits accounting for multiple weather years
 - » Identifying extreme events
 - » Ongoing counterfactual modeling
 - » Feedback from WATT on framing and documentation needs for final report

20-Year Report Considerations

- » Clear explanation of drivers and limited ability to communicate them in WestTEC
 - » i.e., a project identified as part of the WestTEC congestion analysis does not imply that that project does not also have reliability impacts (and vice versa)
- » How we handled uneven feedback
- » What operational issues (stability, transient, etc.) are not addressed and why
- » Externalized costs (land use; physical and visual impacts)
- » Limitations representing gas infrastructure/pipeline availability
- » Hydrogen or clean firm dispatchable cost forecast limitations
- » GETs and their role in 20-year
- » Scope of study regarding “local” transmission & implications on report
- » Tribal impacts/opportunities

Next Steps

- » **October 28** – Next All-Committee meeting in Portland
- » **November 9** – Draft 20-Year Report provided to REC
- » **November 17** – Joint REC+WATT report review session

- » Any feedback or questions, please email GDS
 - » gillian.mccullough@gdsassociates.com
 - » kyra.green@gdsassociates.com
 - » annie.capper@gdsassociates.com

Public Comment