

EPSC State Representatives

		Name	Title
Name	Title	Megan Decker	OR PUC, Commissioner
Paul Kjellander	ID PUC Commissioner	Shelley-Anne Maye	OR PUC, Commission Advisor
Stephen Goodson	ID PUC Policy Advisor	Nadine Hanhan	OR PUC, Staff
John Chatburn	ID OER, Administrator	Matt Muldoon	OR PUC, Staff
Marissa Warren	ID OER, Policy Analyst	Chris Parker	UT DPU, Director
Bob Lake	MT PSC, Commissioner	Brooke Tucker	UT OE Managing Director
Robin Arnold	MT PSC, Commission Staff	Ann Rendahl	WA UTC Commissioner
Jamie Stamatson	MT CC, Staff	Jason Ball	WA UTC, Deputy Assistant Director
Lawrence Nordell	MT CC, Staff	Kathleen Drew	WA EFSEC, Chair
		Kara Fornstrom	WY PSC, Commissioner



EPSC Member Representatives

Member	Name			
Member		Member	Name	
Avista	Jeff Schlect		Graham Retzlaff	
Avista	John Gross	PacifiCorp	Brian Fritz	
	Jared Ellsworth	Portland General	21131111132	
Idaho Power	Curtis Westhoff		Shaun Foster	
		rordana deneral	Sarah Edmonds	
MATL	Sharmen Andrew		Shauna Tran	
	Dori Quam	Puget Sound Energy		
Northwestern Energy	•		Stephanie Imamovic	
	Chelsea Loomis			



Objectives



EPSC Actions (10 minutes)

Selection of EPSC state and Enrolled Parties Co-chairs



Study Scope (1 hour)

Discussion of key 2020-21 Study Scope components providing a basis for the committee to contribute



Comment Submittal Demonstration (20 minutes)



Selection of EPSC Co-chairs

- States
 - Nominations
 - States Vote
- Enrolled Parties
 - Nominations
 - Enrolled Parties Vote



General Schedule and Deliverables





Members















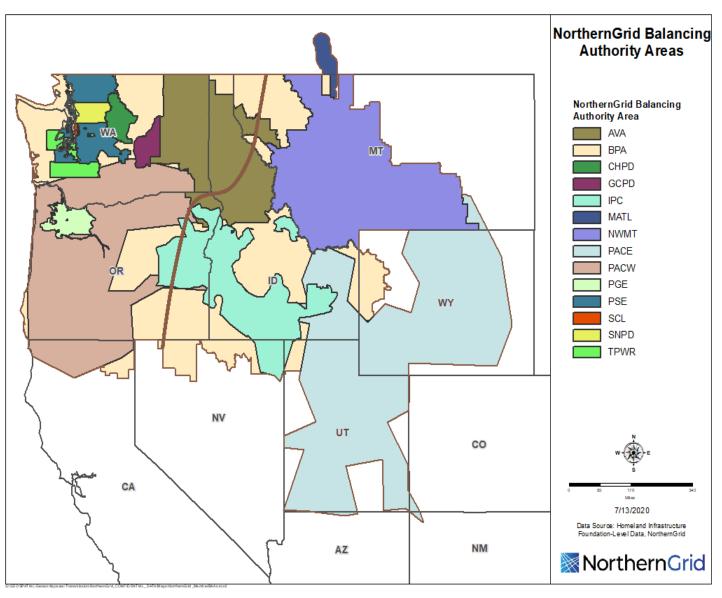






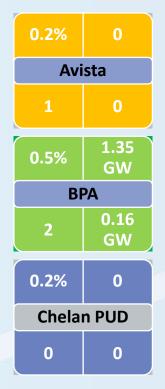




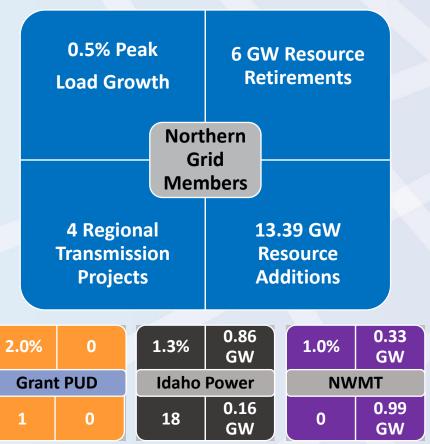


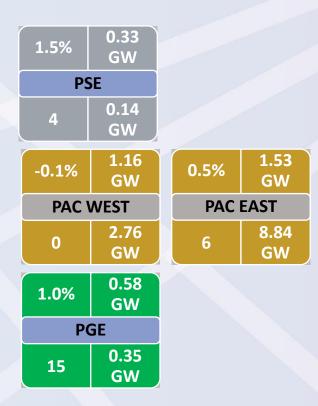


Members Summary





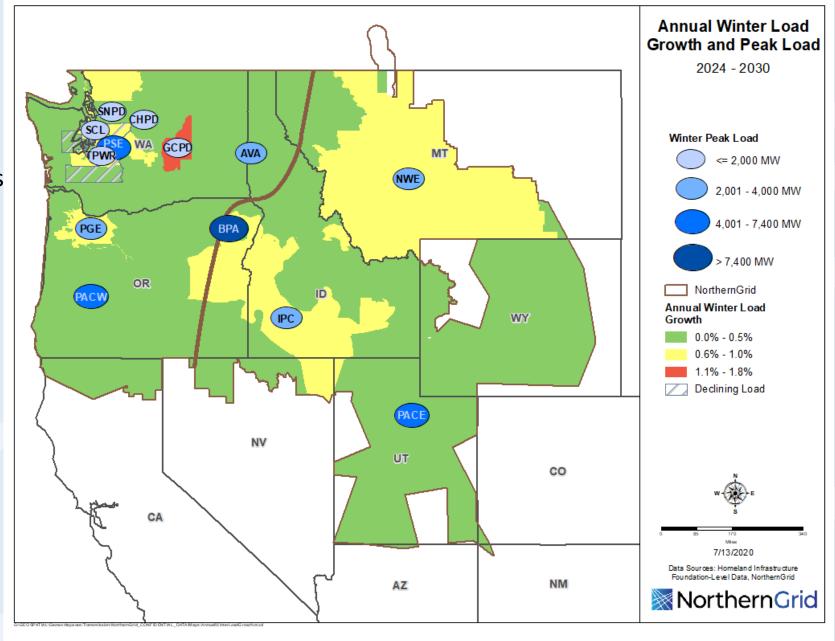






Winter Load

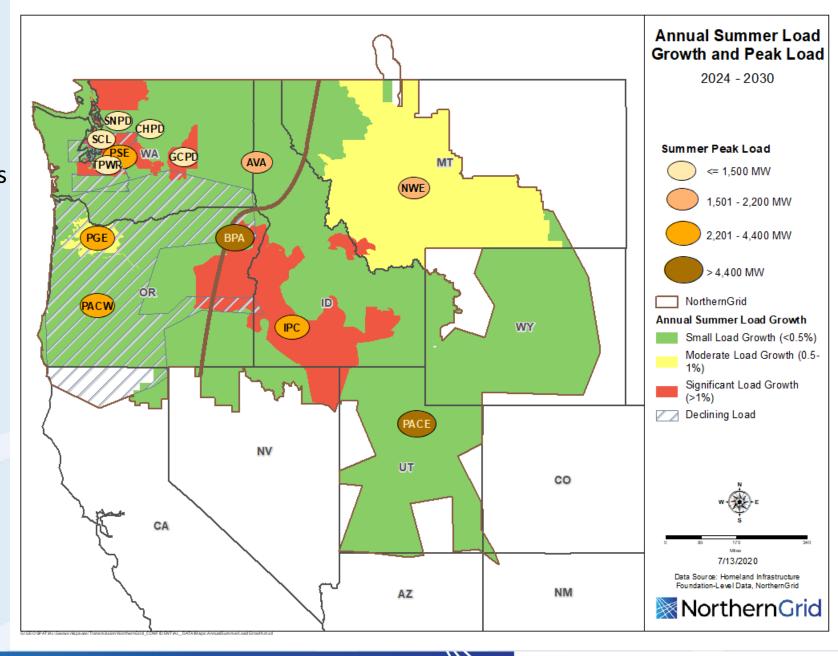
 0.5% peak load growth across the NorthernGrid region





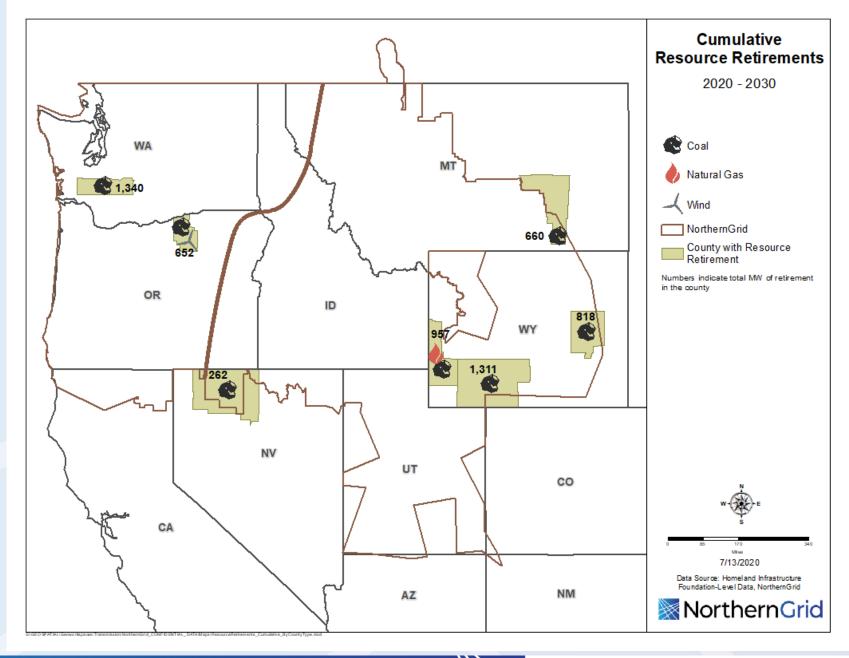
Summer Load

 0.5% peak load growth across the NorthernGrid region





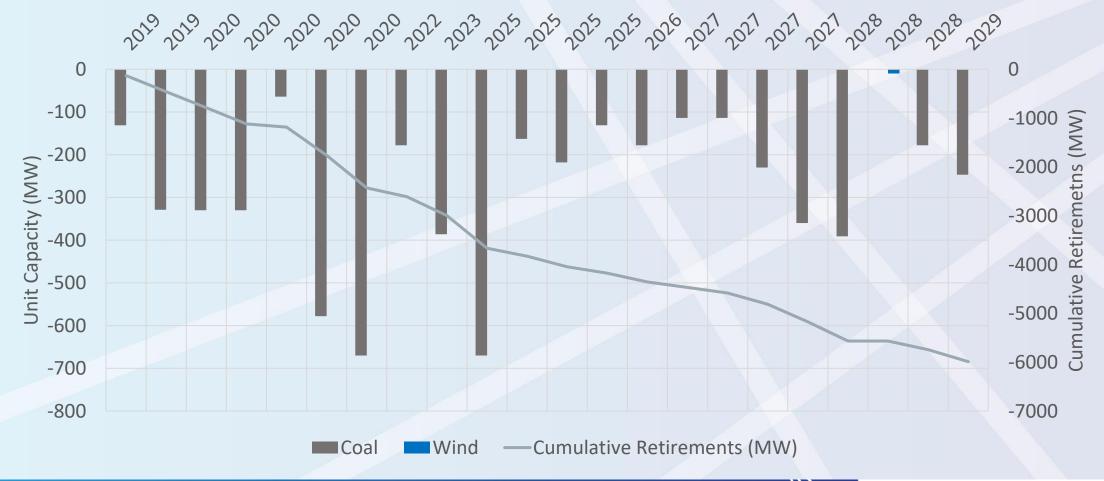
Generation Resource Retirements





Cumulative Generation Resource Retirements

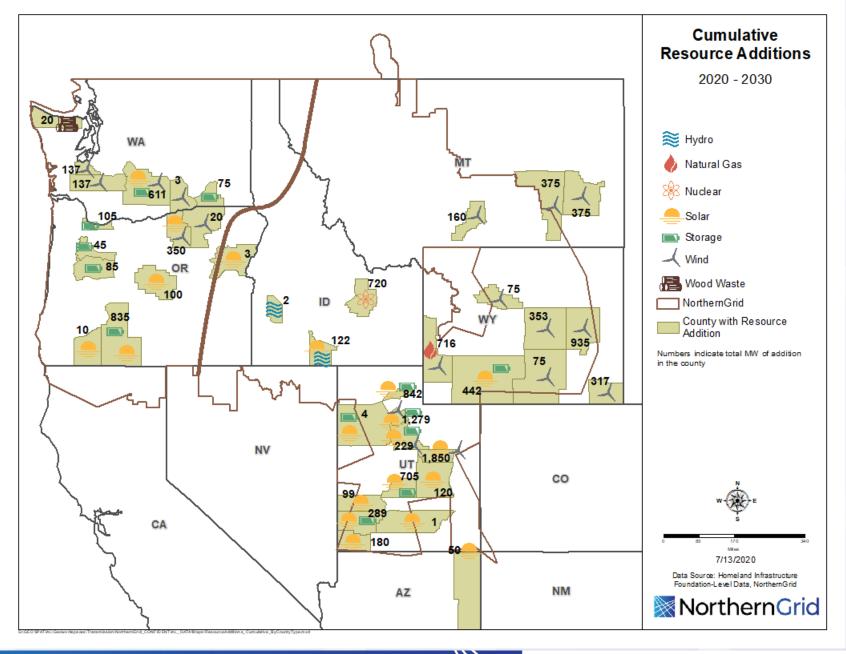
Generation Resource Retirements





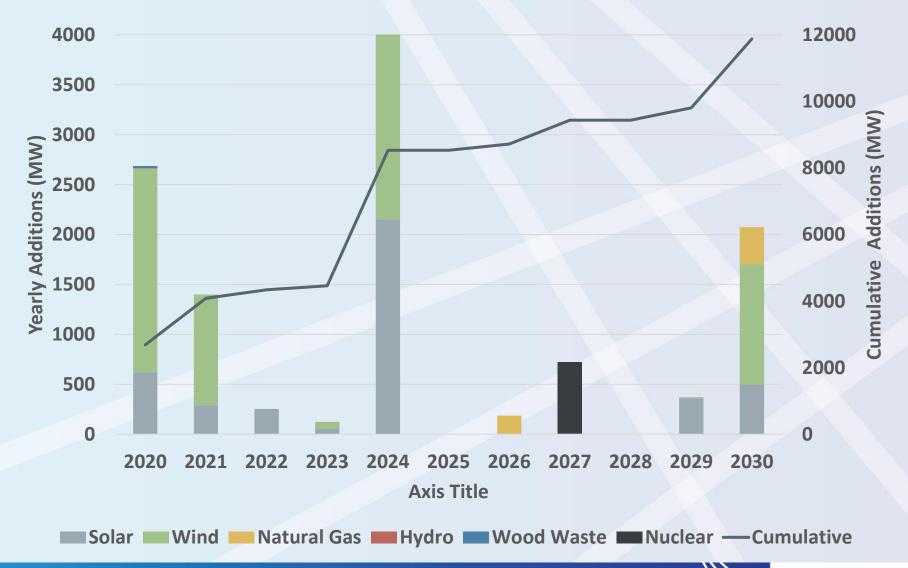
Generation Resource Additions

- 13,390 MW forecasted
- 87% from PacifiCorp
- 75% forecasted in the NG-IM area
- Shift from dispatchable and baseload operated to variable generation resources





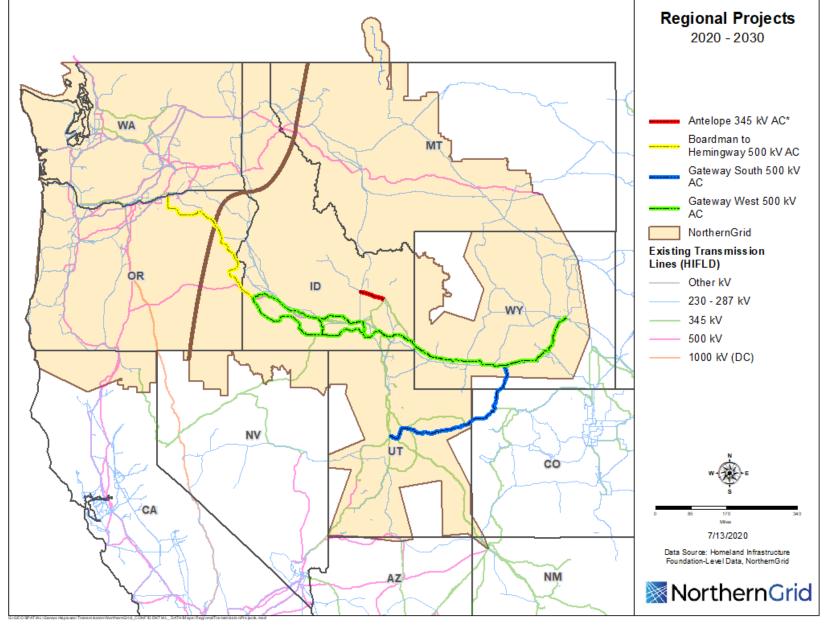
Cumulative Generation Resource Additions





Regional Transmission

- Antelope to Goshen
- Boardman to Hemingway
- Gateway South
- Gateway West





Non-Incumbent Transmission Projects

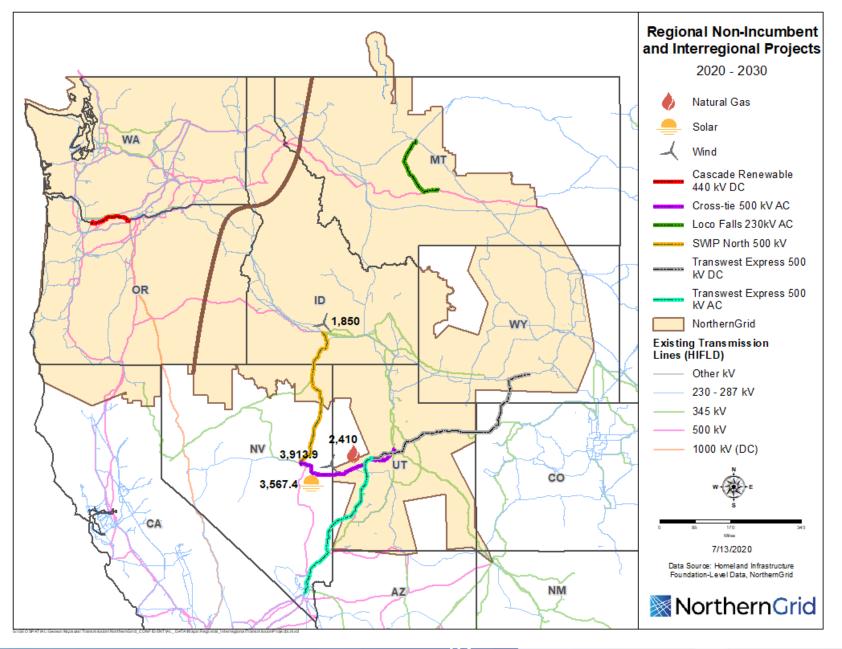
Cascade Renewable Transmission

Loco Falls Greenline

SWIP North (Interregional)

Cross-Tie (Interregional)

Transwest Express (Interregional)





Cost Allocation Overview





Cost Allocation – Qualified Developers

TransCanyon, LLC

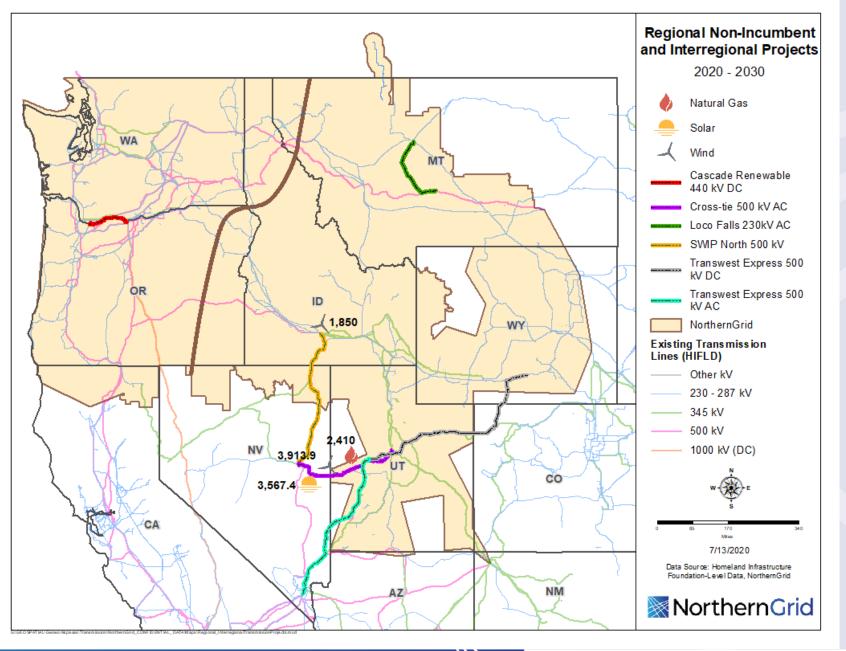
Cross-Tie

Great Basin Transmission, LLC

SWIP North

PowerBridge

Cascade Renewable
 Transmission





Cost Allocation - More Efficient or Cost Effective Solution Determination

- Satisfaction of one or more Enrolled Party's Needs
- Effectiveness of performance
- Economics
- Feasibility to Complete
- Sponsorship and degree of development
- Coordination with and mitigation of any Material Adverse Impact on any affected transmission system
- Consistency with applicable state, regional, and federal planning requirements and regulations



Cost Allocation – Project Benefits

- Deferred Costs
- Avoided Capital Costs
- Increased Useful Available Transfer Capability



Public Policy

- Identified enacted public policies through 2030 that impact resource and local transmission plans
- Enacted policies exist in Washington, California, Oregon, Montana, and Utah
- No identified public policy requirements in Wyoming and Idaho



Analysis Methodology



Objective: Assess existing system and committed projects ability to reliably serve 2030 forecasted loads and resources



Simulation: WECC heavy winter, heavy summer and light spring power flow cases along with power flows from Production Cost simulation for transmission system stress hours



Analysis: Monitor transmission and generation facilities for thermal and voltage violations during facility outages



Available WECC Power Flow Cases

- 2029-30 Heavy Winter 1
 - Expected December through February evening load peaks
- 2030 Light Spring 1-S
 - March, April, and May light-load condition with solar and wind serving a significant portion of the WECC total load
- 2030 Heavy Summer 1
 - Expected June through August late afternoon load peaks
- 2030 Heavy Summer 1 ADS
 - ADS-PCM 7/29/2030 hour 19:00 MDT



Production Cost Model Cases

- WECC Anchor Data Set provides the 2030 Production Cost Model
- Member Planning Committee will select hours that stress the NorthernGrid transmission system
- Additional power flow cases are generated from Production Cost Model



Stakeholder Engagement Schedule





Comment Portal Demonstration

- Comment period opens on July 29th and closes August 14th
- Link to comment portal on NorthernGrid web site: https://www.northerngrid.net/comments/

Questions? Please contact Dave Angell at dave.angell@northerngrid.org



EPSC Questions for Consideration

Does the EPSC desire to meet to produce a contribution set?

