

Transmission Update

March 13, 2025

Curtis Westhoff

System Consulting Engineer

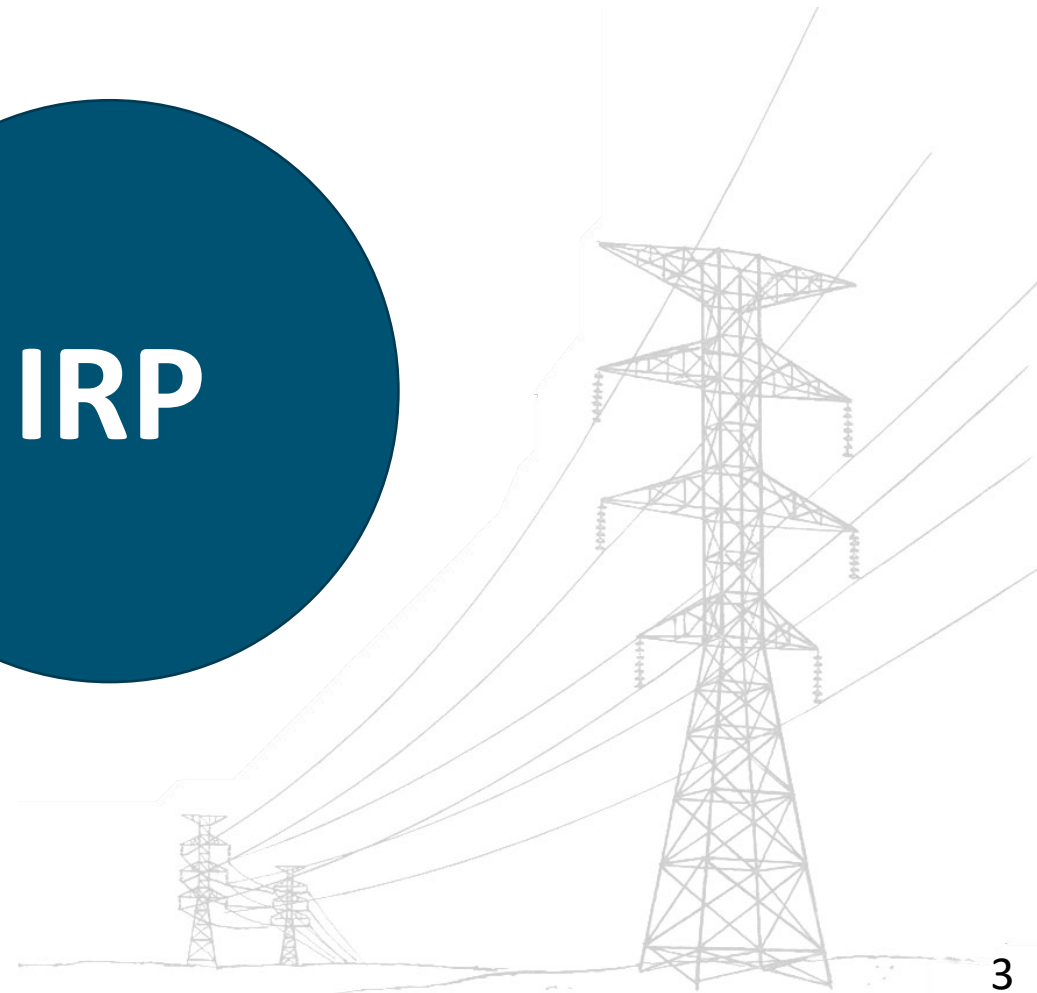
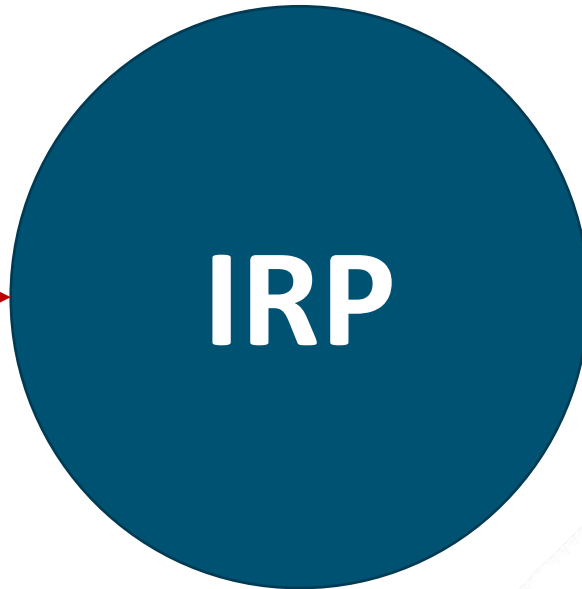
Agenda

- Introduction/Background
- Boardman to Hemingway (B2H)
- Southwest Intertie Project North (SWIP-N)
- Gateway West Project

IRP Relevance



- Energy Market Access
- Resource Integration
- Electrical Losses
- Reliability
- Transmission Costs and Wheeling Revenue Offsets



Transmission Overview Background Presentation Reminder

- Visit idahopower.com/irp and click Educational Resources
- Or [click here](#)
- Or scan the
QR code



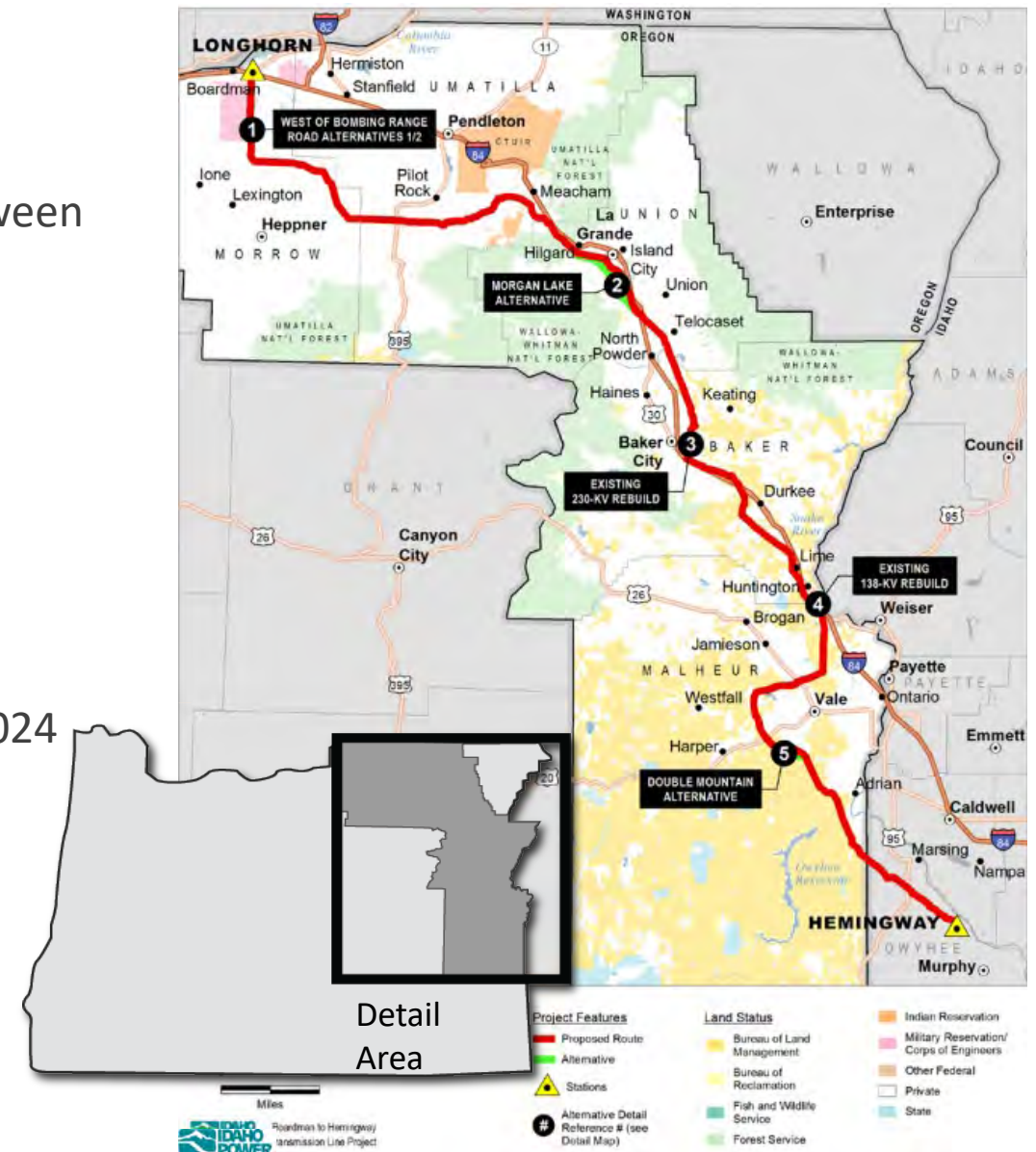
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Boardman to Hemingway

(B2H) Project

- 296-mile, 500-kilovolt (kV) transmission line
- ~1,000 megawatts (MW) of bidirectional capacity increase between Northwest and Idaho
- Bureau of Land Management (BLM) Record of Decision in 2017
- Oregon Energy Facility Siting Council (EFSC) approved final site certificate fall of 2022
 - Decision was upheld by Oregon Supreme Court spring of 2023
 - First Amended Site Certificate approved fall of 2023
 - Second Amended Site Certificate approved summer of 2024



B2H Ownership

	W→E Capacity	E→W Capacity
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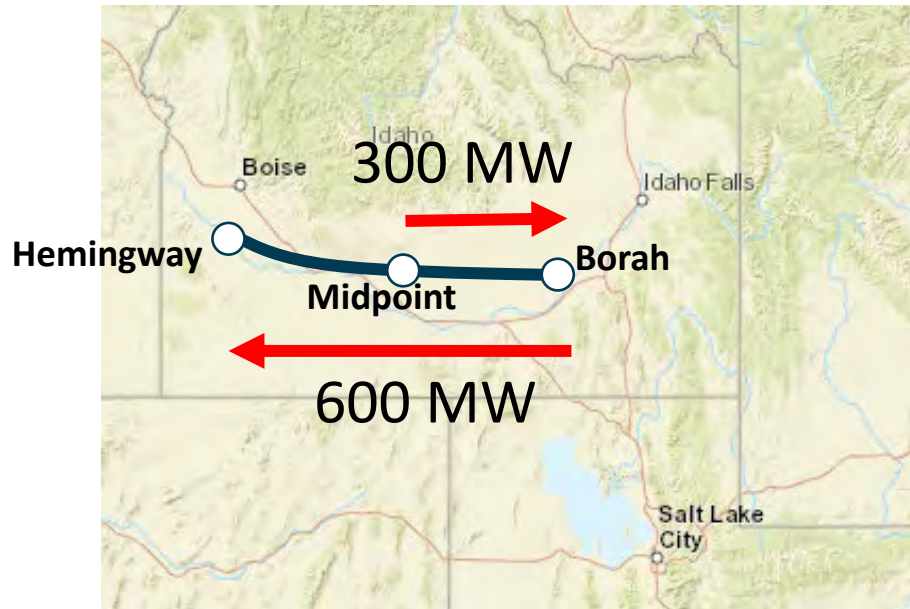
(45%)	750 MW	180 MW
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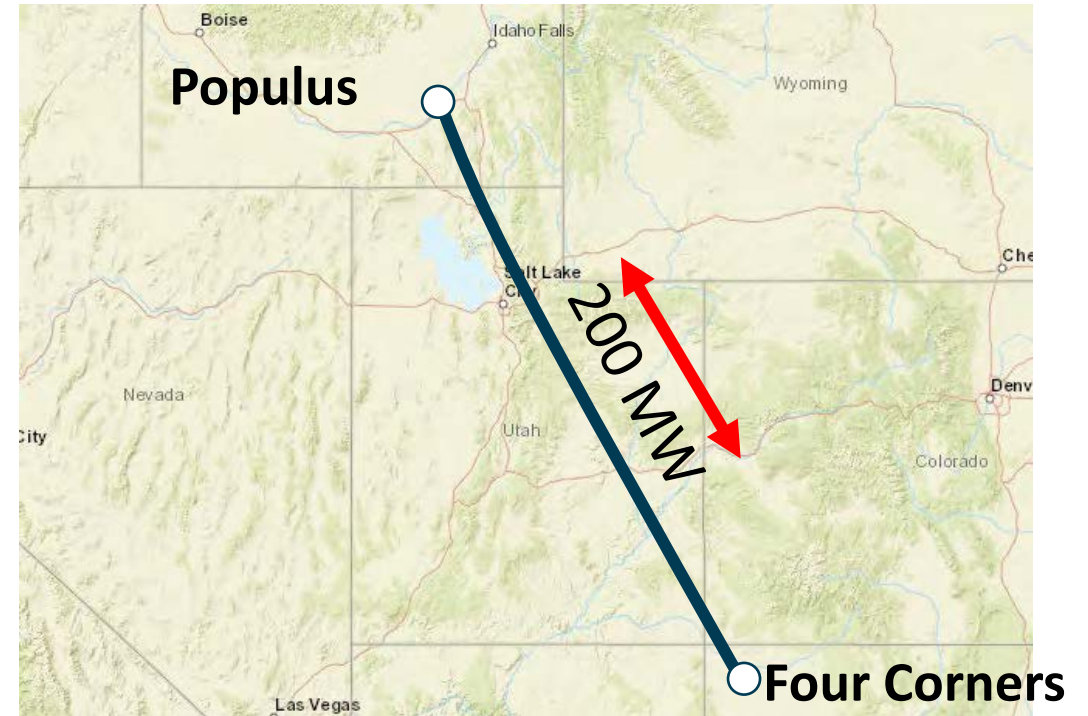
(55%)	300 MW	820 MW
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Idaho Power — PacifiCorp Transaction Joint Purchase and Sale Agreement

Idaho Power to PacifiCorp (Assets)



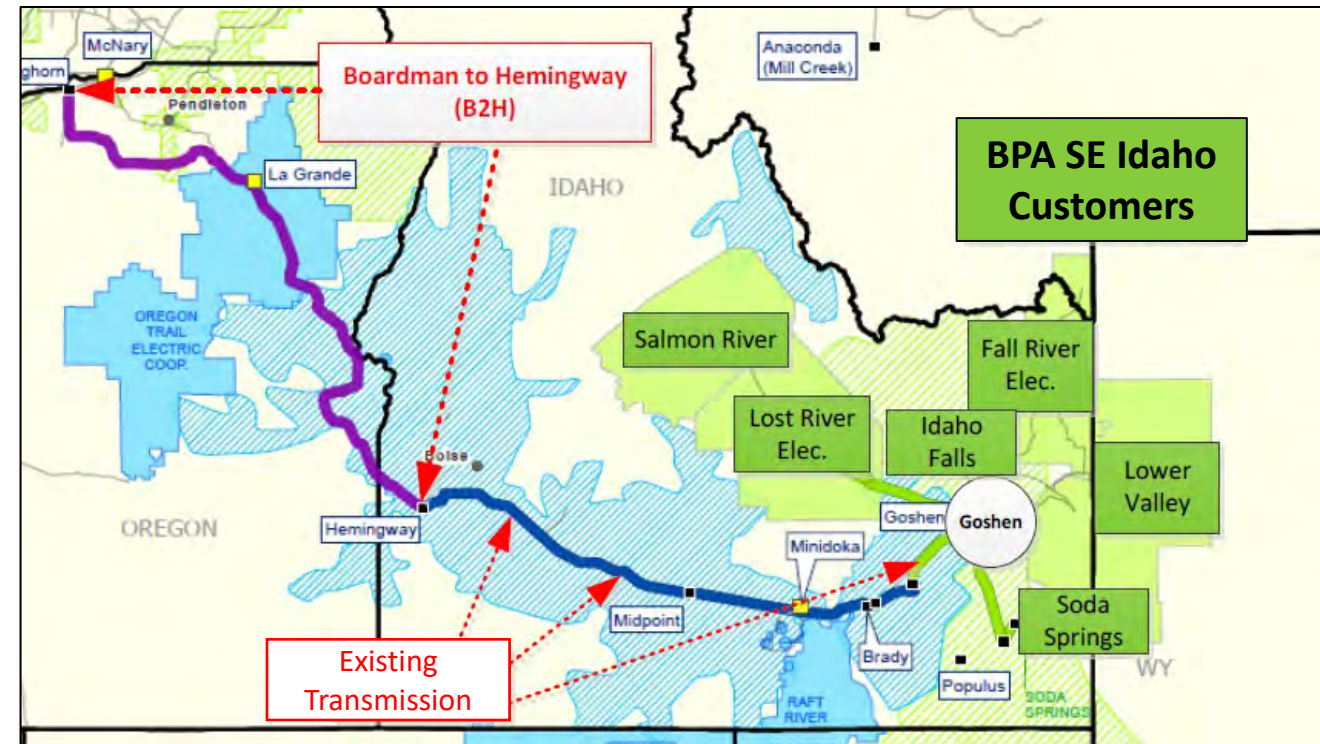
PacifiCorp to Idaho Power (Assets)



BPA SE Idaho Load Customers

New Idaho Power Transmission Network Customers with B2H

- City of Idaho Falls
- Lower Valley Energy
- Fall River Rural Electric Cooperative
- City of Soda Springs
- Salmon River Rural Electric Cooperative
- Lost River Electric Cooperative



Idaho Power/BPA Seasonal Needs

**Idaho Power
Customer B2H Needs**

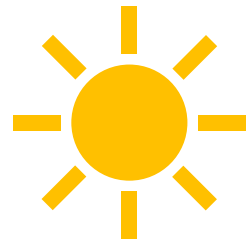
Summer: ~500 MW

**BPA Transmission
Service B2H Needs**

**Summer: ~250 MW
Winter: ~550 MW**

2025 IRP Modeling: Contribution to Planning Reserve Margin

B2H Project & Asset Exchange



Summer

500 MW

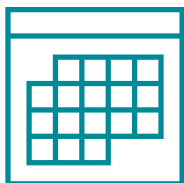
0 MW



Winter

0 MW

200 MW



In-Service

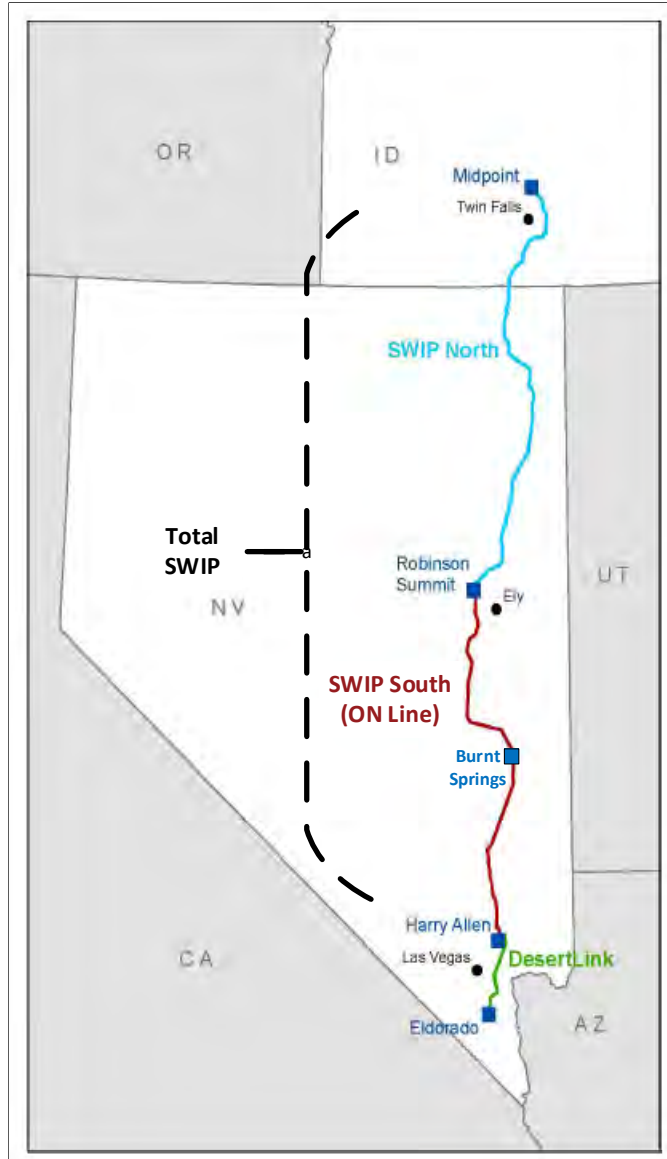
12/2027

12/2027

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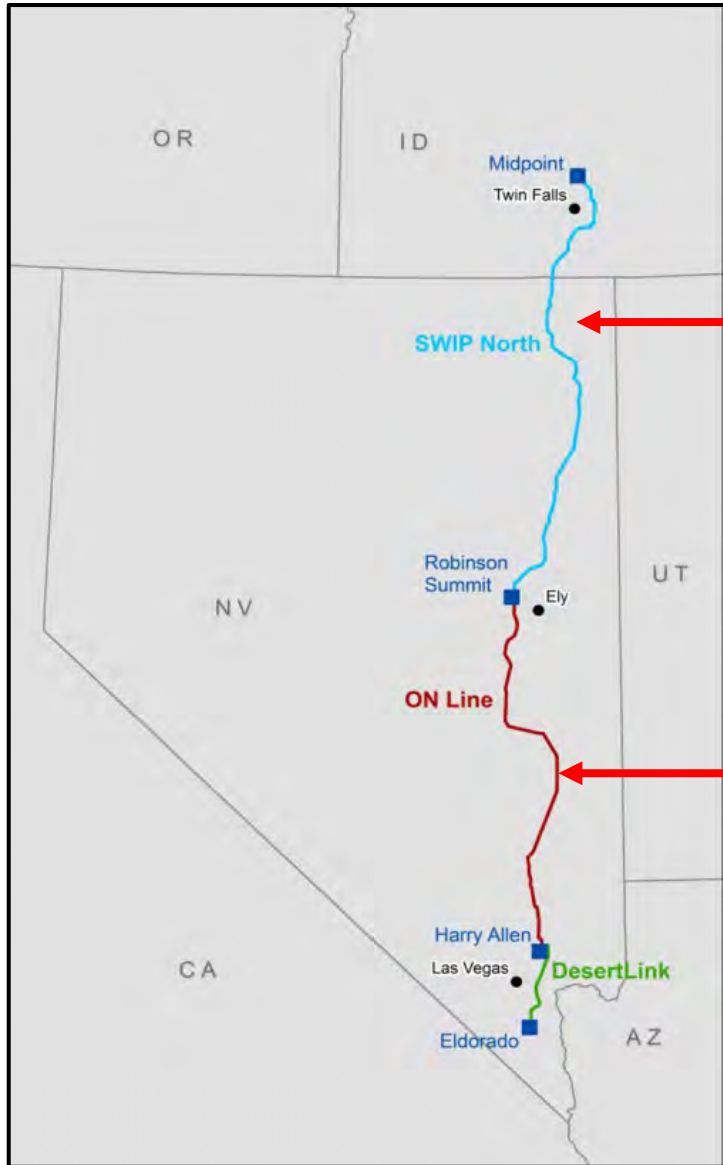
Southwest Intertie Project North



- Developer: Great Basin Transmission, LLC (affiliate of LS Power^{*})
- Midpoint to Robinson Summit (285 miles)
- ~2000 MW bidirectional capacity
- Addition will also unlock capacity on the existing One Nevada Line to Harry Allen (Las Vegas area).
- Idaho Power participation will provide transmission access (across congestion on NV Energy's system) to a southern market hub.
- In-service date: ~2028

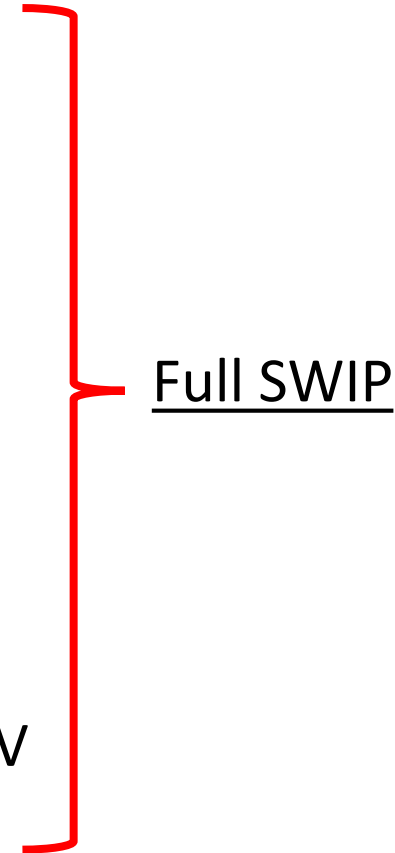
* SWIP-North is being developed by independent energy company LS Power, who is also the developer of the proposed Lava Ridge project. The SWIP-North project is separate from Lava Ridge. Idaho Power is not affiliated with the Lava Ridge project.

SWIP Existing Structure



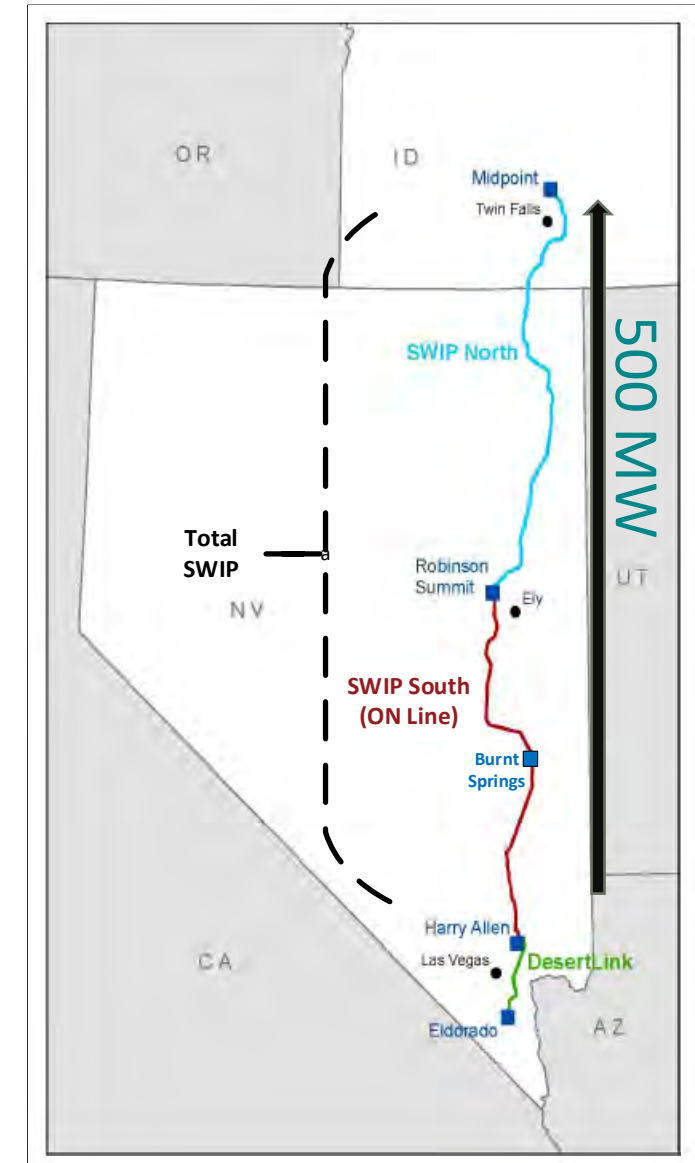
SWIP North
 In-Service: ~2028
 Developer: GBT

SWIP South
One Nevada (ON) Line
 In-Service: 2014
 Ownership: 75% GBT, 25% NV



Idaho Power Participation in SWIP-N

- Definitive Agreements signed between Great Basin Transmission LLC and Idaho Power on February 13, 2025.
- Idaho Power submitted a CPCN application to the IPUC on March 7, 2025.
- Idaho Power would gain 500 MW South to North from Harry Allen to Idaho.
 - 500 MW South to North on SWIP-N
 - 500 MW South to North on One Nevada Line (SWIP-S)



SWIP-N Capacity



N→S Capacity

S→N Capacity

0 MW

500 MW

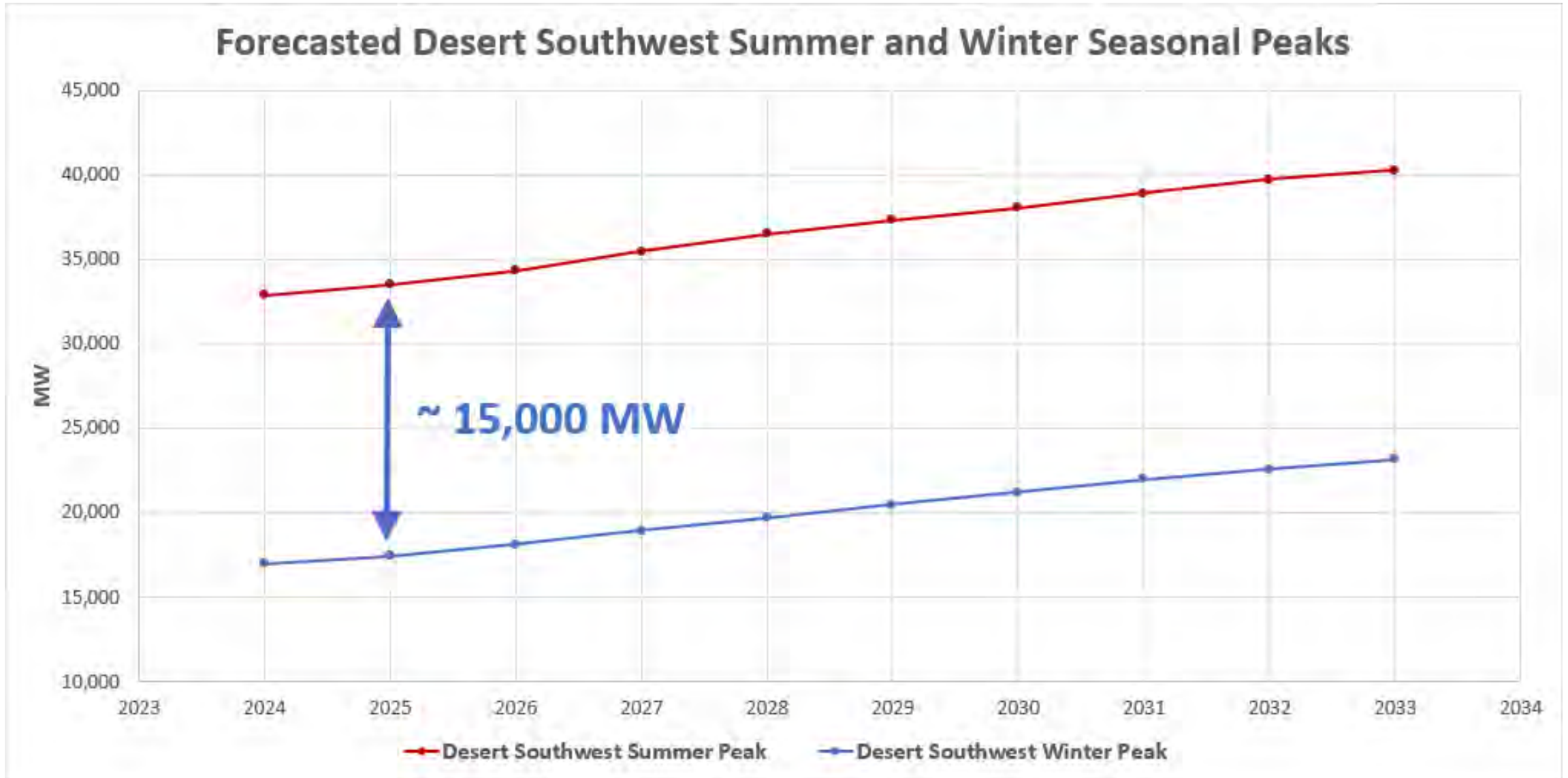
1,117.5 MW

572.5 MW

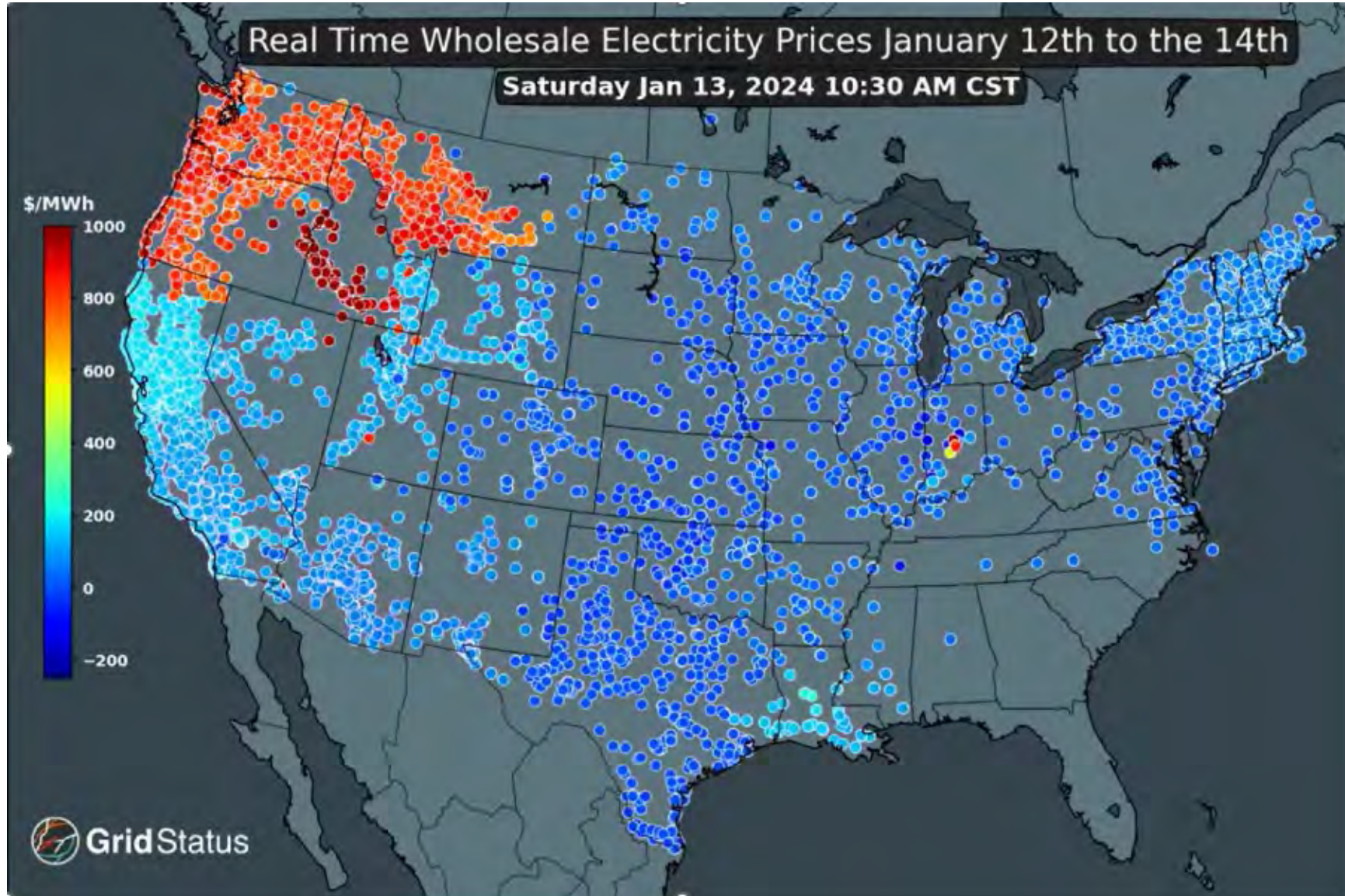
952.5 MW

847.5 MW

SWIP-N Benefits: Winter Capacity



2024 PNW Winter Event



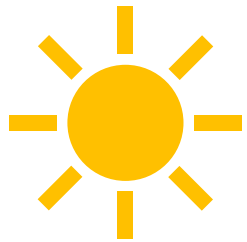
2025 IRP Modeling: SWIP-N Contribution to Planning Reserve Margin Modeling



Winter

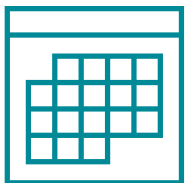
SWIP-N

500 MW



Summer

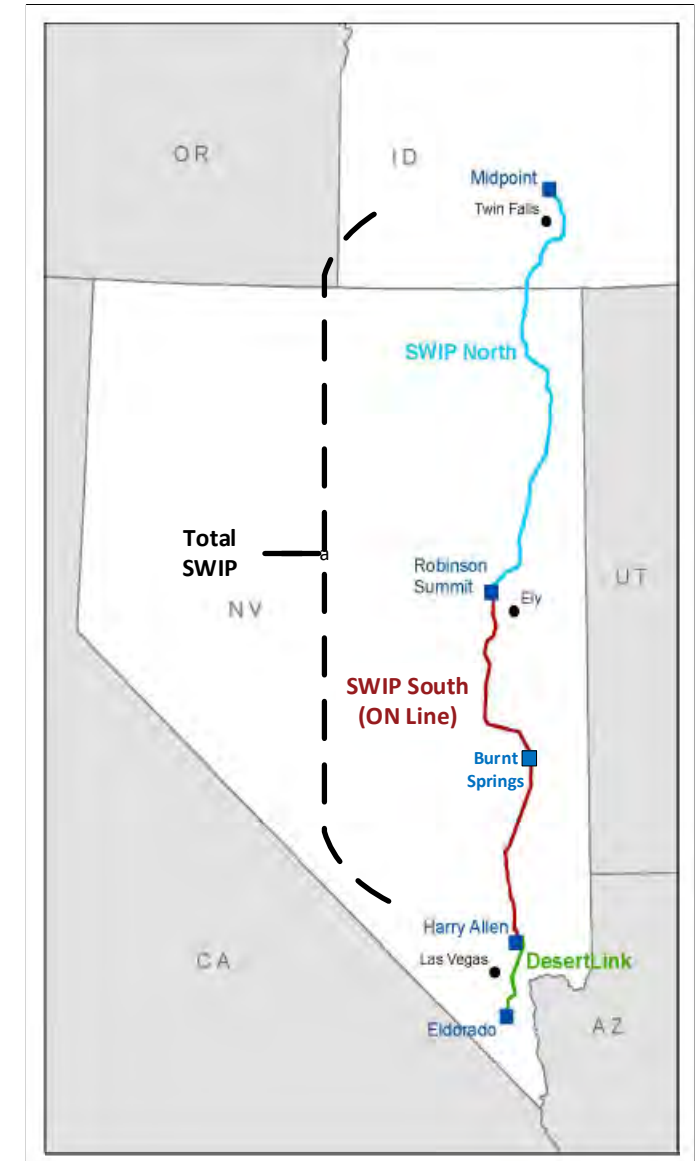
0 MW*



In-Service

11/2028

* The summer season modeled capacity will ramp later in the planning horizon (2034/2035) factoring expected desert southwest resource development and diverse market opportunities.



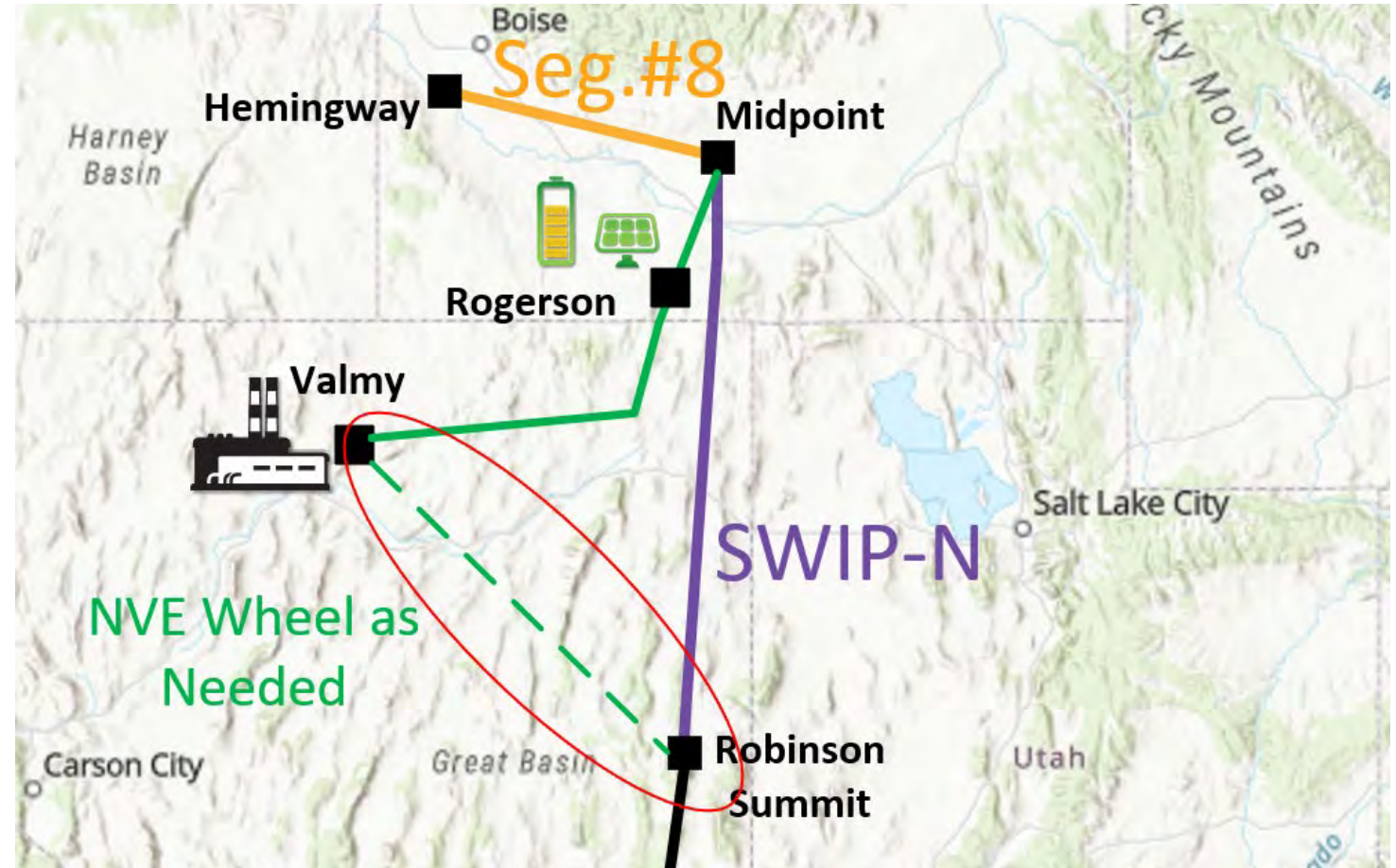
Other SWIP-N Participation Benefits

1. Gateway segment #10 deferral



Other SWIP-N Participation Benefits

1. Gateway segment #10 deferral
2. Backup path to Idaho for resources located at Valmy and Rogerson



B2H and SWIP: Diverse Market Access

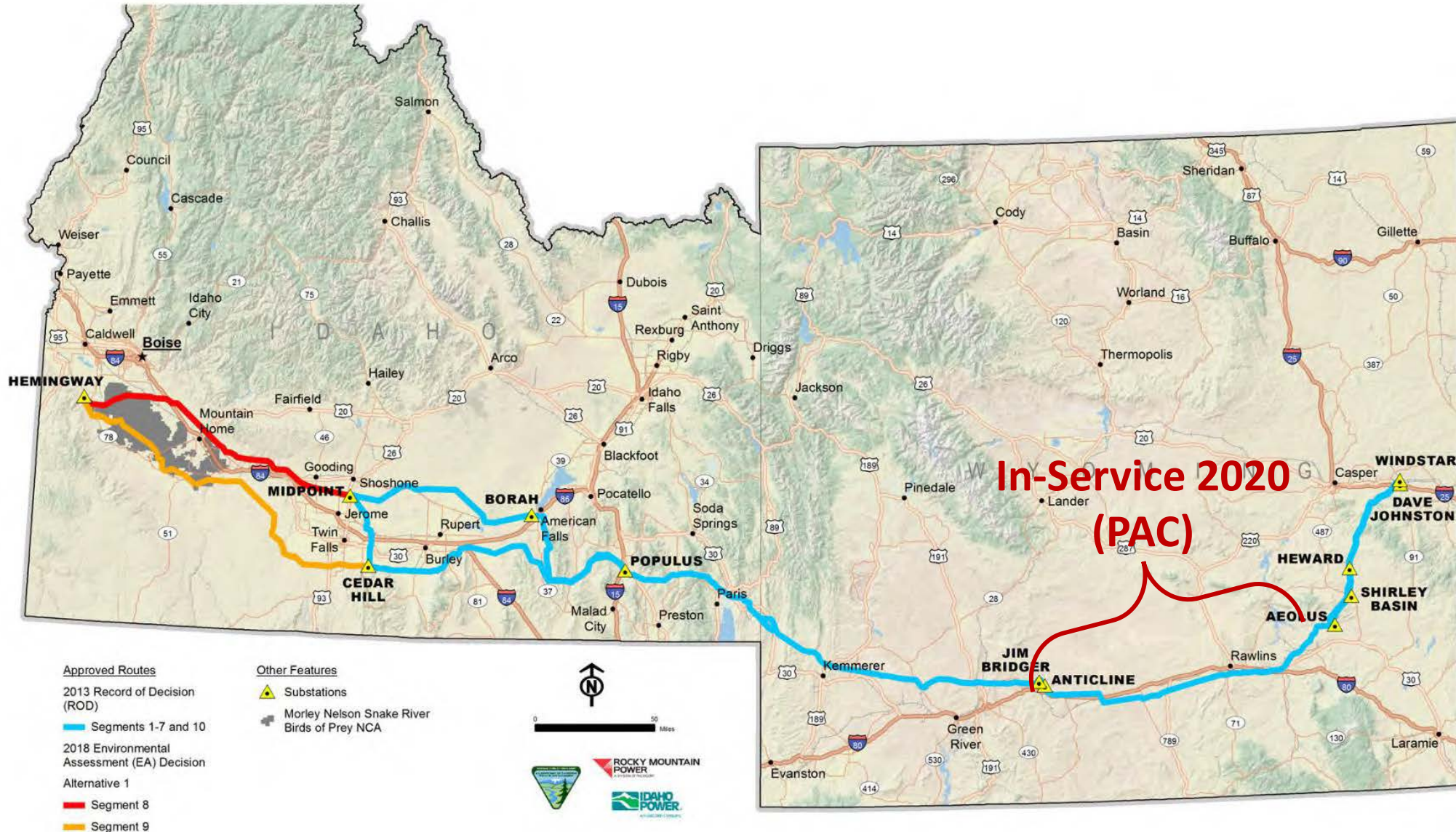
- Leverage differing regional load and resource profiles
- Cost-effective capacity
- Enhance reliability



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Gateway West Transmission Project



Idaho Power Gateway Projects

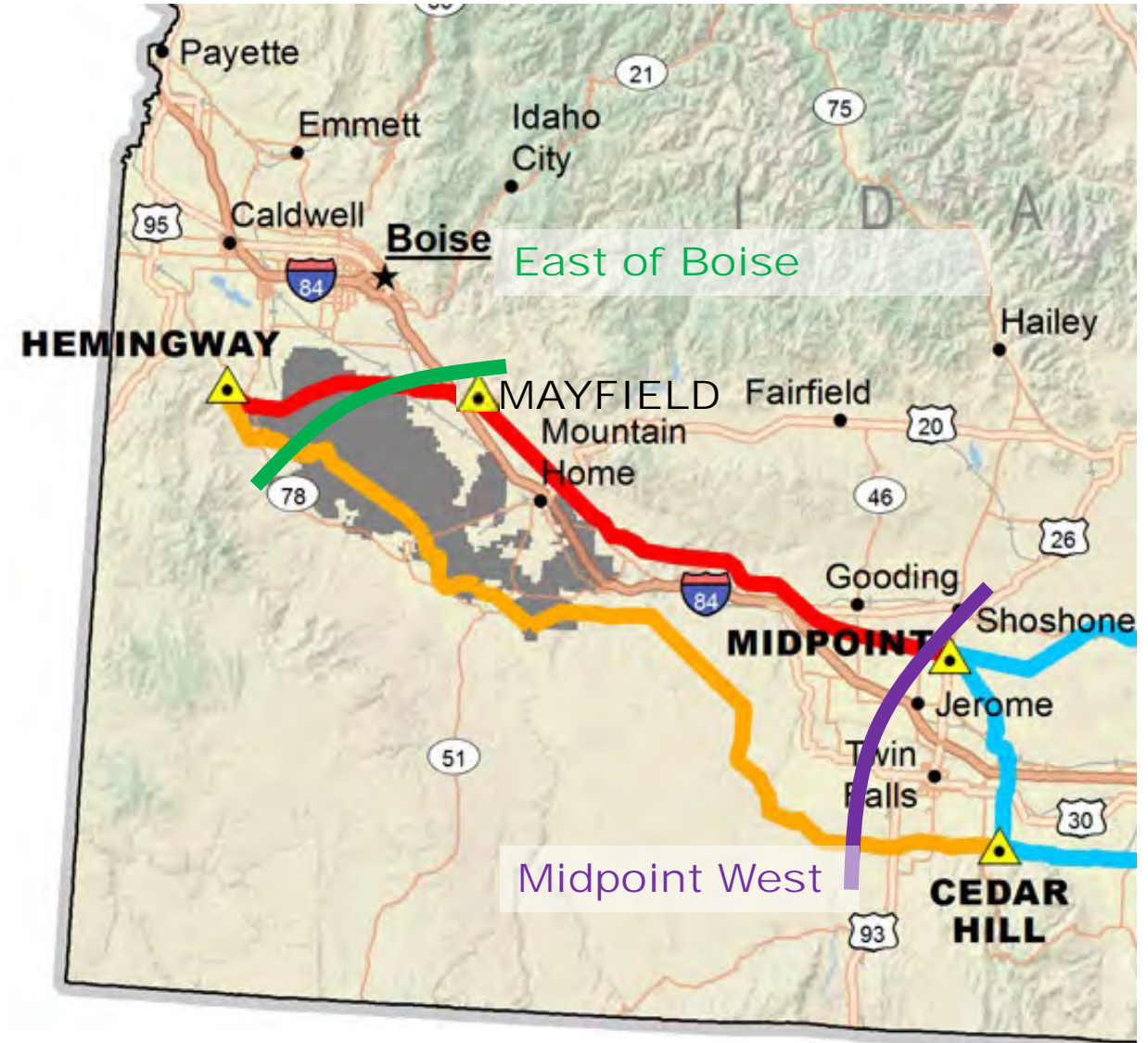
Line

Mayfield – Hemingway 500 kV
(Segment #8)

Midpoint – Mayfield 500 kV
(Segment #8)

Cedar Hill – Hemingway 500 kV
(Segment #9)

Midpoint – Cedar Hill 500 kV
(Segment #10)

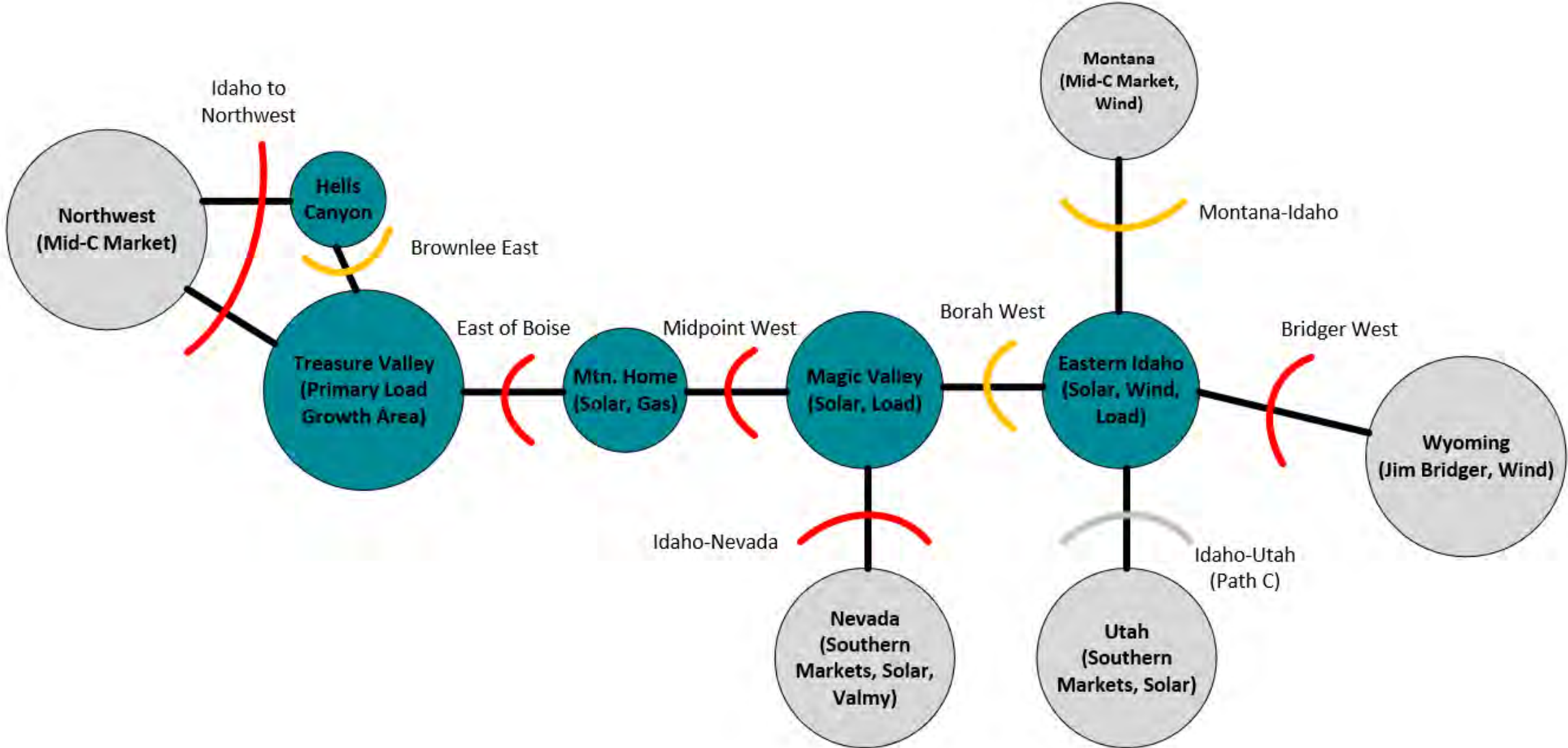


Idaho Power Gateway Projects

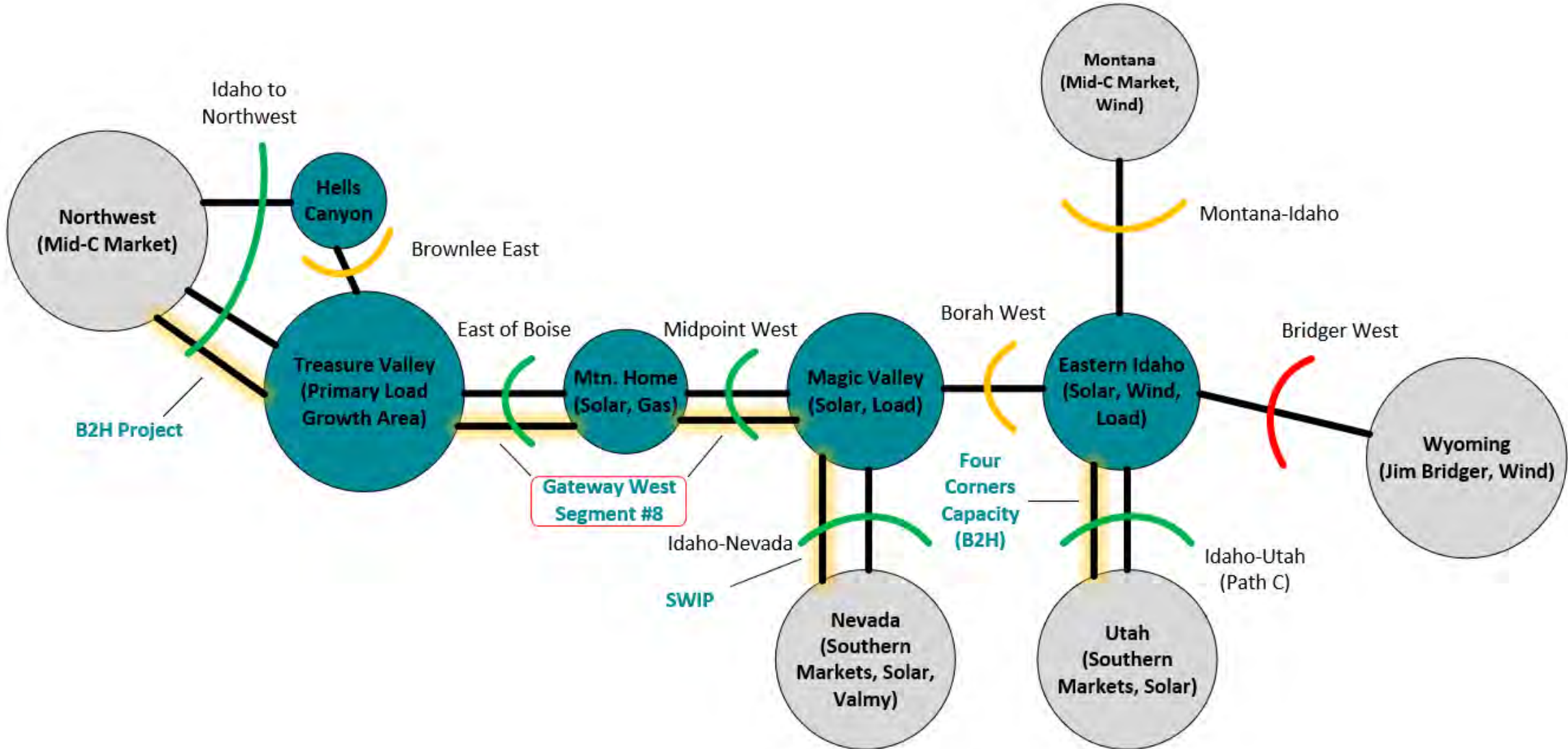
Line	In-Service
Mayfield – Hemingway 500 kV (Segment #8)	2028
Midpoint – Mayfield 500 kV (Segment #8)	2030
Cedar Hill – Hemingway 500 kV (Segment #9)	TBD
Midpoint – Cedar Hill 500 kV (Segment #10)	Deferred (SWIP-N)



Resource Integration



Resource Integration



Thank You