

Idaho Power's Transmission System

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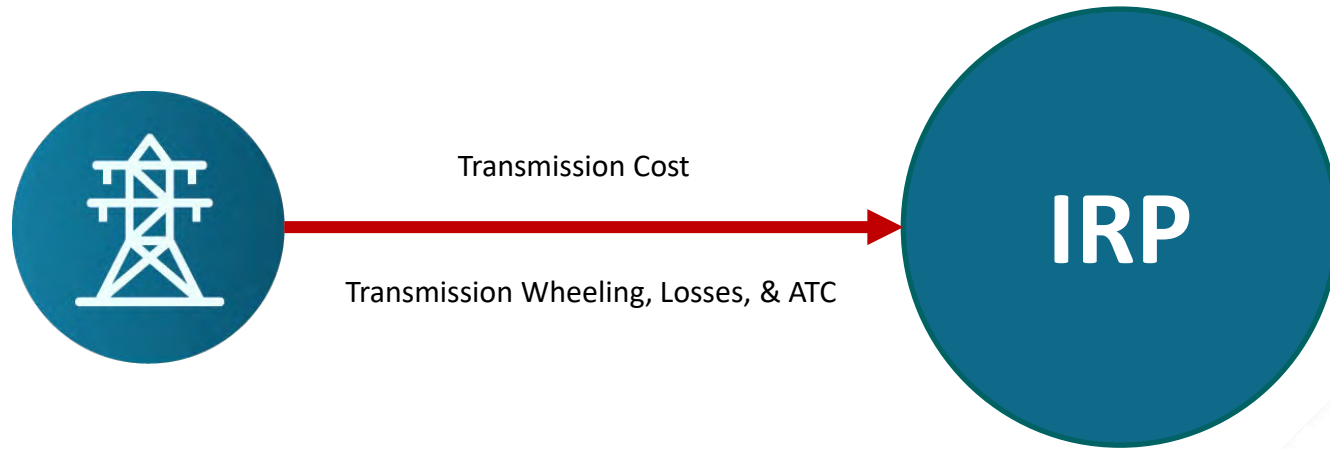
Introduction

This presentation provides an overview of Idaho Power's transmission system.

- Interconnection with other utilities
- Internal transmission system



IRP Relevance



Agenda



- Acronyms and definitions
- Northwest transmission system
- Transmission Service Request (TSR)
- Regional transmission projects

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Acronyms and Definitions

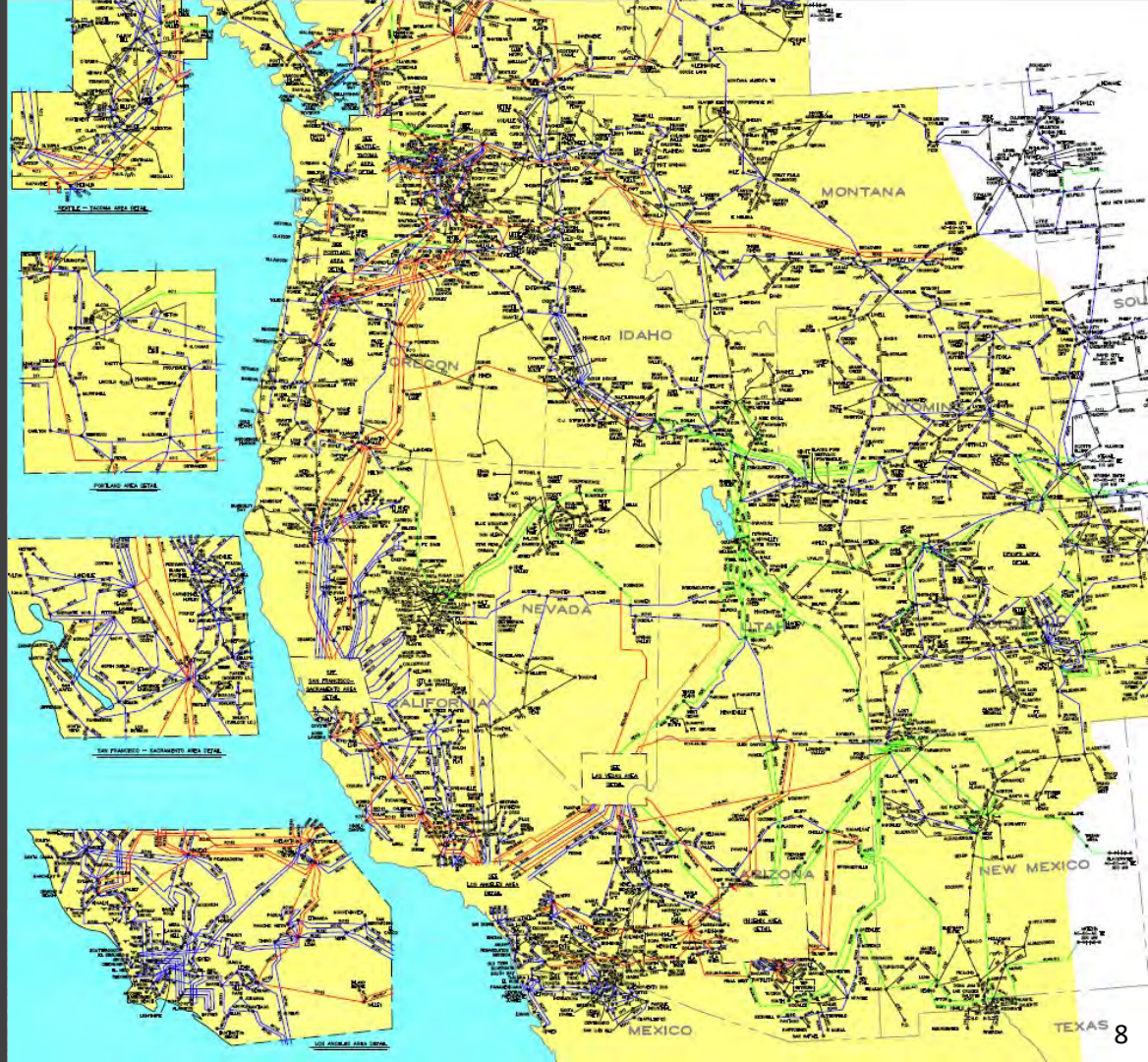
ATC	Available Transmission Capacity <ul style="list-style-type: none">• Long-term firm transmission capacity not previously allocated
Transmission Path	A transmission line or multiple adjacent lines with an accepted rating
Transmission Contingencies	<ul style="list-style-type: none">• N-1: Loss of any single element• N-2: Loss of 2 elements with a significant probability of occurrence
TSR	Transmission Service Request
WECC	Western Electricity Coordinating Council <ul style="list-style-type: none">• Regional reliability organization and compliance monitor as defined by the North American Electric Reliability Corporation (NERC)

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**Western
Interconnection**





Idaho Transmission System

➤ **Northwest Interconnections**

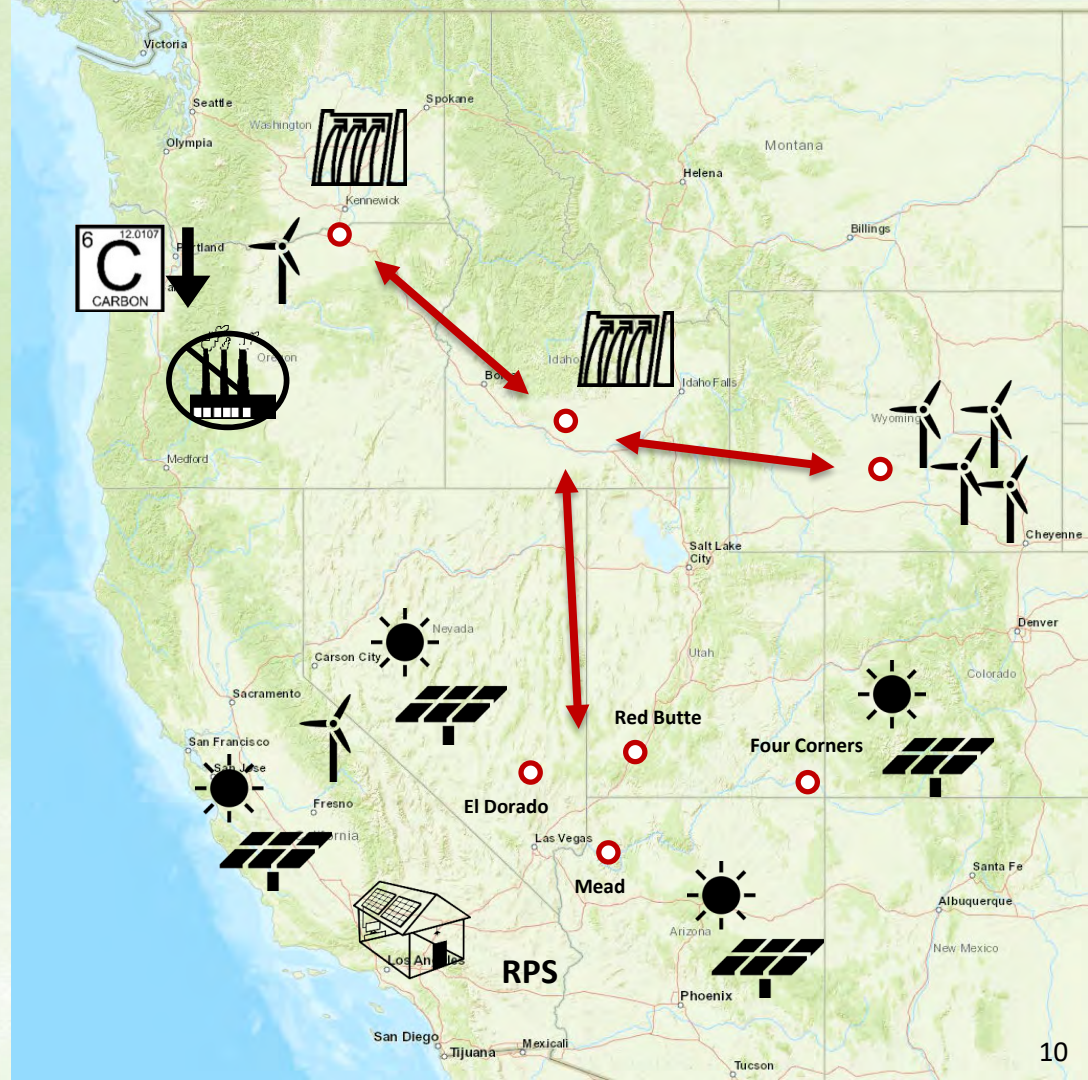
- Continue to import economical summer energy from the NW (winter-peaking area)

➤ **Nevada and Utah Interconnections**

- Access to robust desert southwest energy market due to solar development

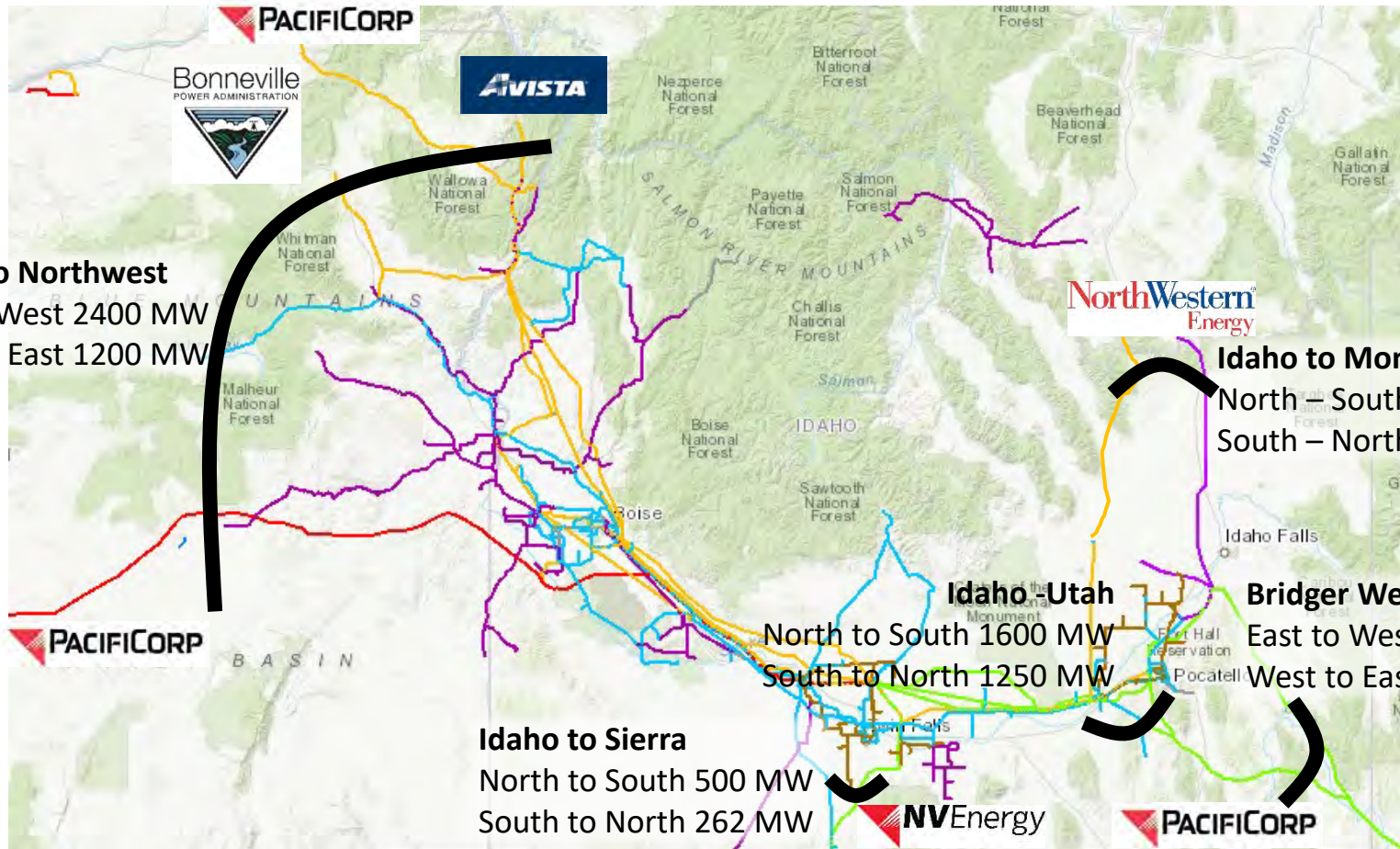
➤ **Wyoming Interconnections**

- Access to high quality Wyoming wind resource



Paths and Interconnections

Idaho to Northwest
East to West 2400 MW
West to East 1200 MW



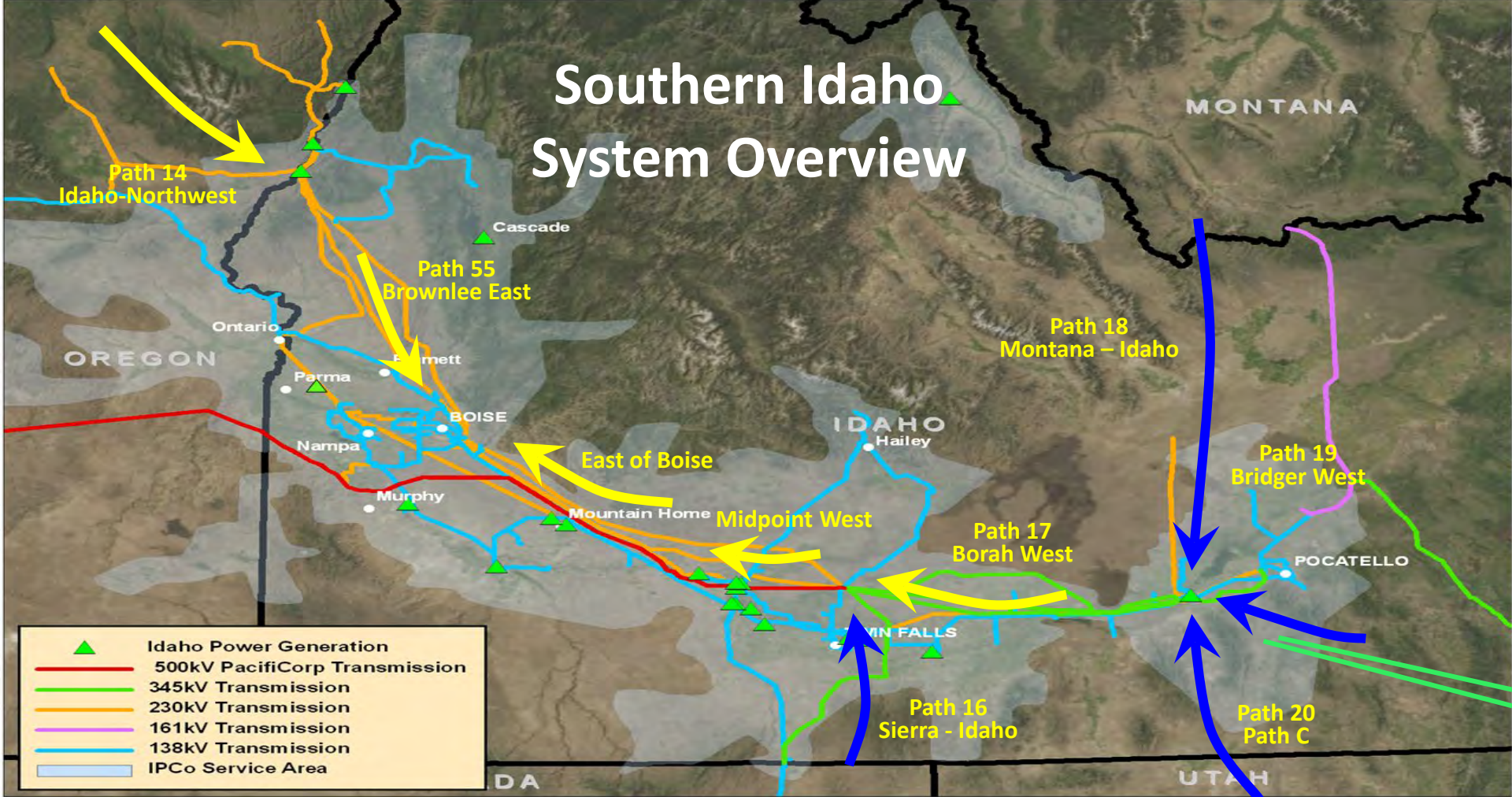
Idaho to Montana
North – South 383 MW
South – North 256 MW

Idaho -Utah
North to South 1600 MW
South to North 1250 MW

Bridger West (WY to ID)
East to West 2400 MW
West to East 1250 MW

Idaho to Sierra
North to South 500 MW
South to North 262 MW

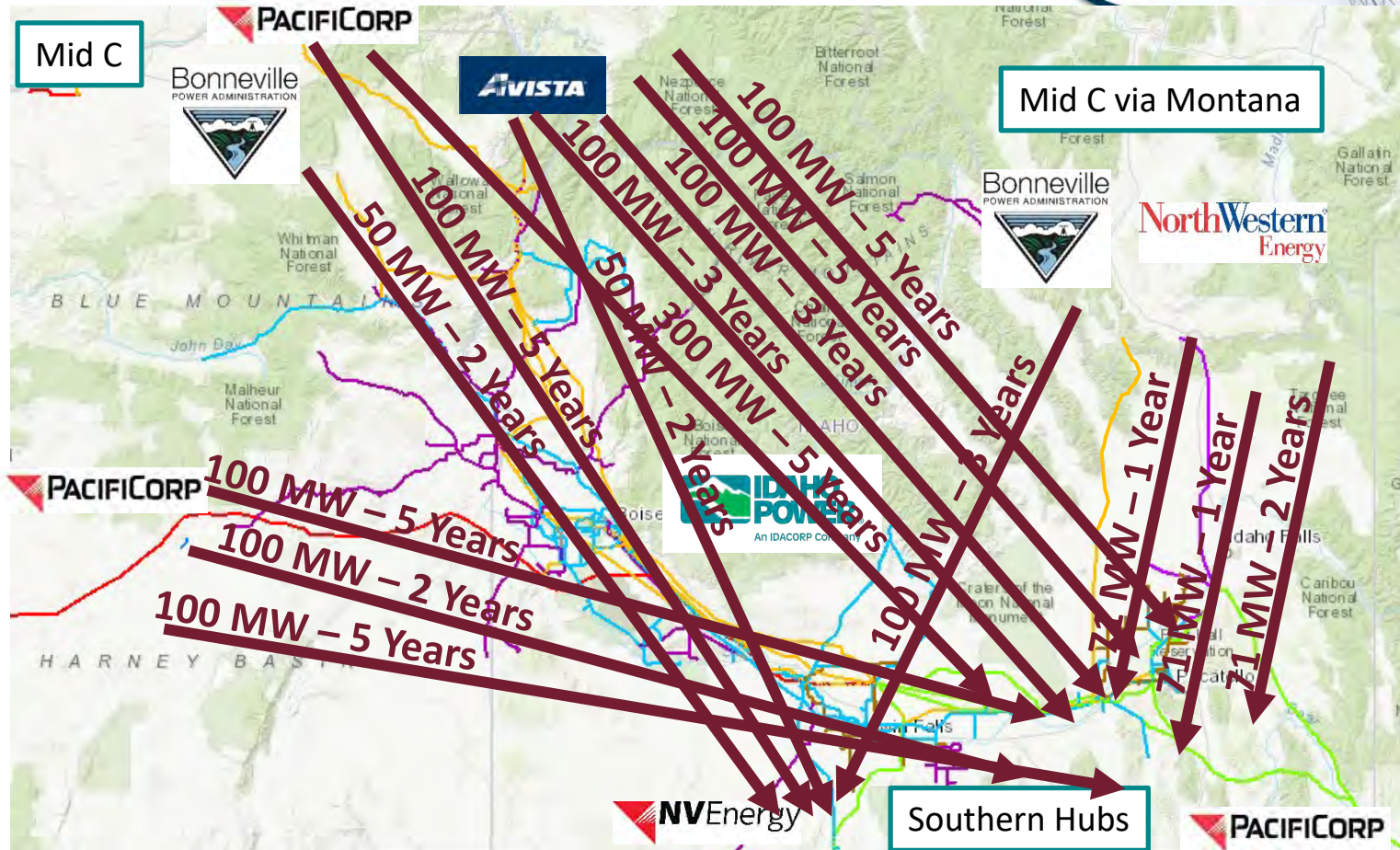
Southern Idaho System Overview



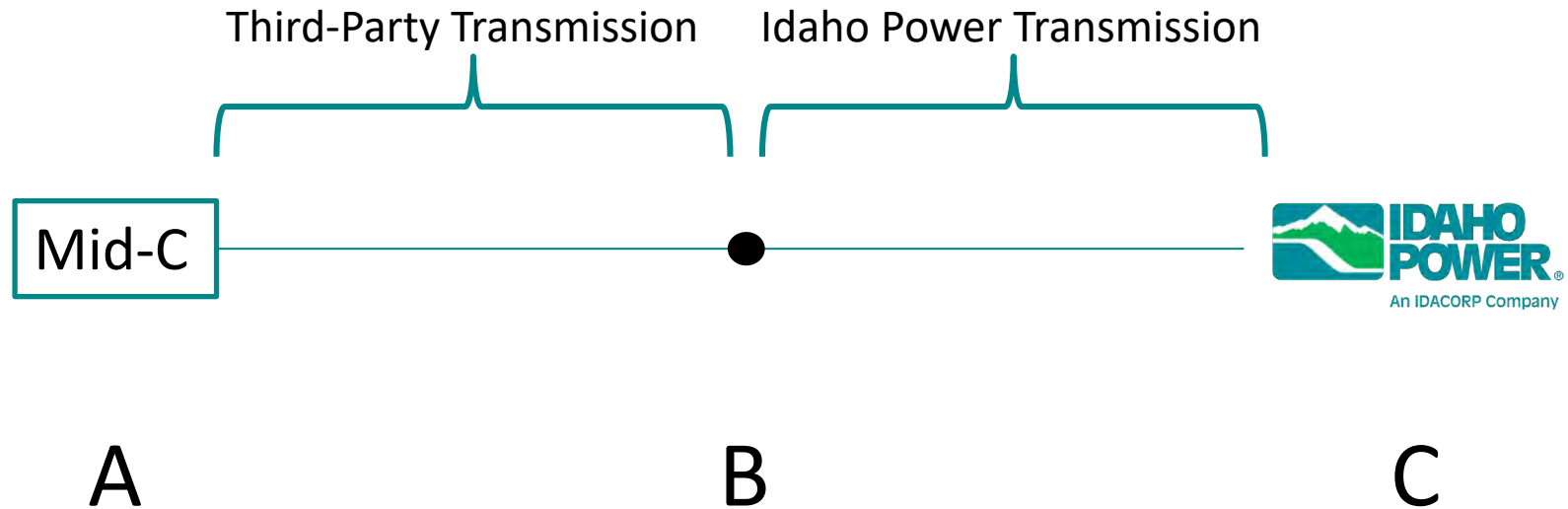
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Transmission Requests

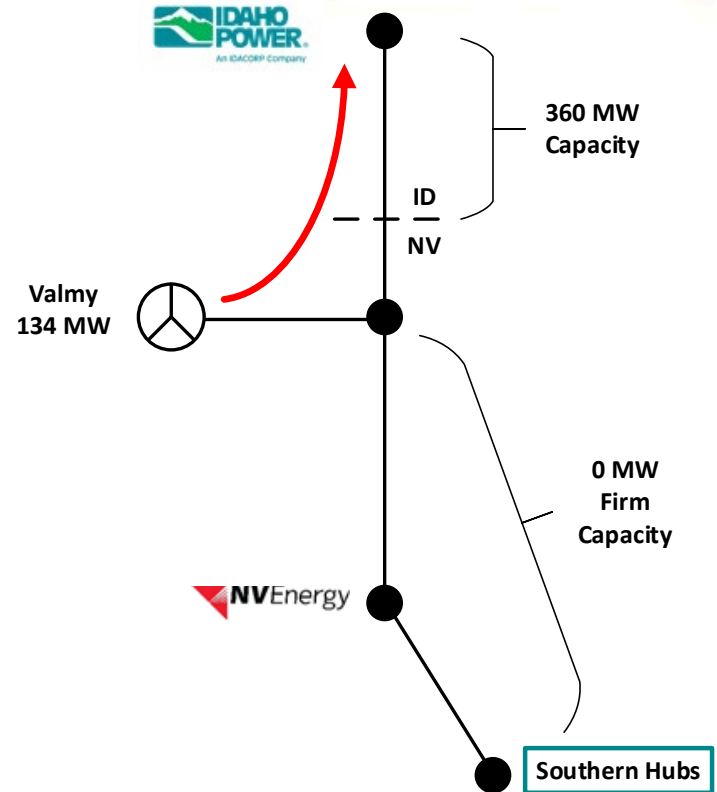


Mid-C Market Connection



Southern Market Transmission

- No firm transmission is available across NV Energy's system.
- Existing 50-megawatt (MW) reservation across PacifiCorp east system can be used to access southern hubs.



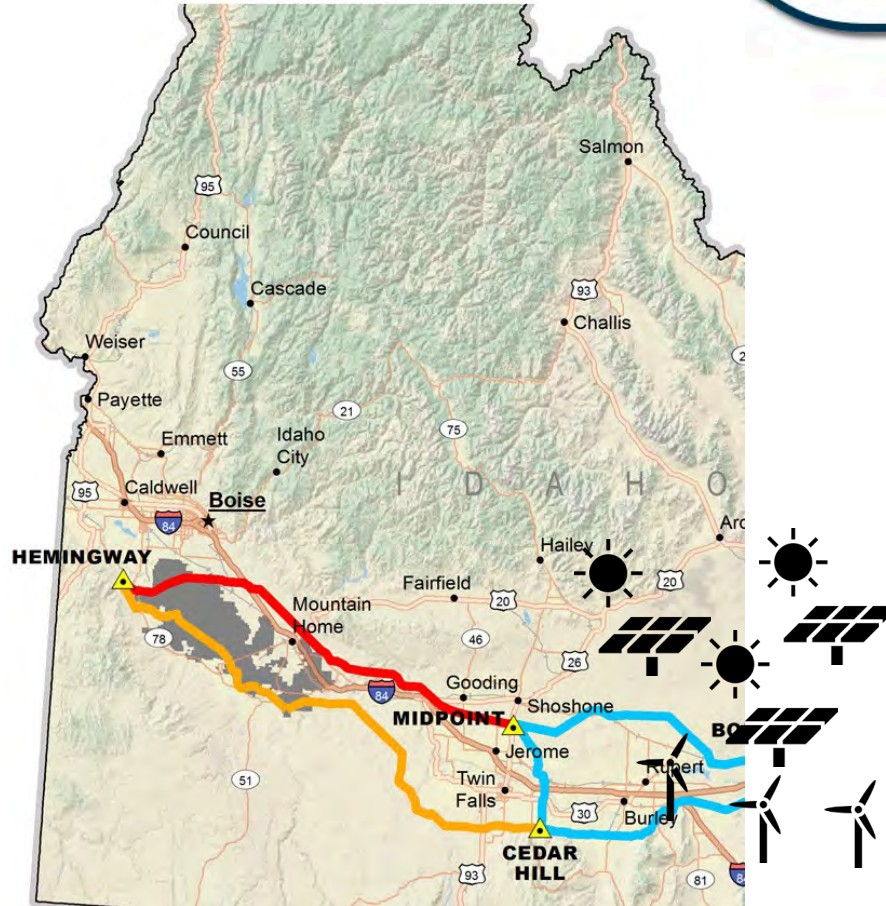
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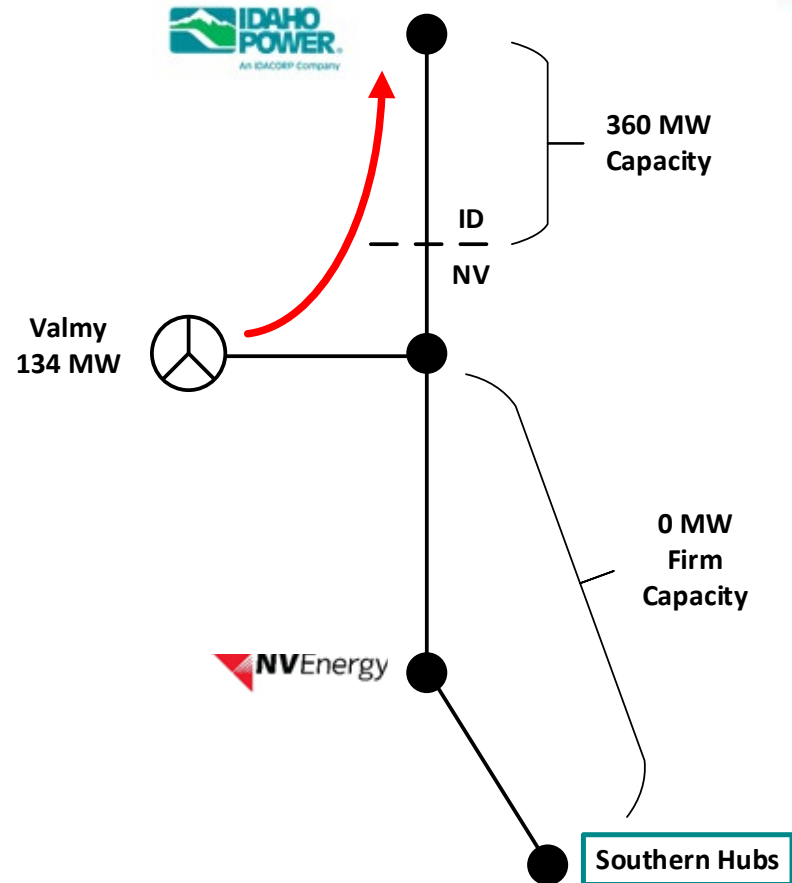
Gateway West



Gateway West



SWIP/ON

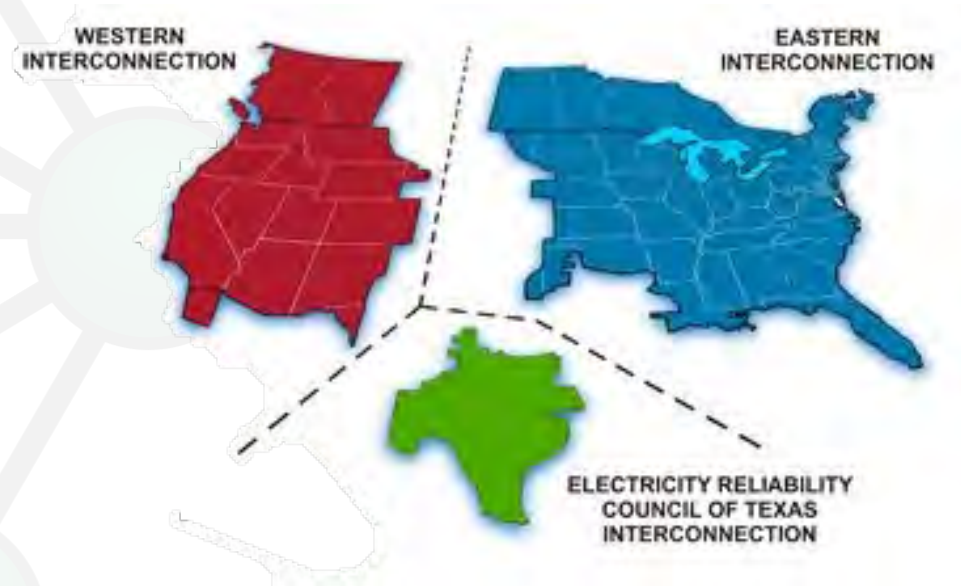


SWIP/ON



- Midpoint to Robinson Summit
500 kilovolt (kV) line
(SWIP North)
- Robinson Summit to Harry Allen
500 kV line (ON Line)
- Harry Allen to Eldorado 500 kV
line (DesertLink)

NERC Interconnections



Summary

- Idaho Power's transmission system provides access to a diverse pool of resources, operational flexibility, and resiliency.
- Very little long-term, firm capacity is available.
- Increasing transmission capacity to the Northwest is a key component to reach our clean energy goal.

Open Discussion





Thank you!

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