



# Company Update

March 9, 2023

# Operations



01

## Winter Operations

- ✓ Outages
- ✓ Load

02

## Water Conditions

- ✓ Reservoir Levels
- ✓ Snowpack

03

## B2H Transaction

- ✓ Our Strategy
- ✓ The Deal

04

## RFP Update

- ✓ 2023 Resources
- ✓ 2024 Resources

05

## Day Ahead Markets

- ✓ EIM
- ✓ EDAM and Markets+

## ***THE 12 SEASONS OF IDAHO***

**Winter**

**Fool's Spring**

**Second Winter**

**Spring of Deception aka Winsprummall**

**Third Winter**

**The Pollenating**

**Actual Spring**

**Summer**

**Satan's Summer**

**Fake Fall**

**Second Summer**

**Actual Fall**

**You Are Here**





# 2022 Outages > 10,000 Customers



3/02/2022

Customer Interruptions:

10,251

Number of Feeders:

25

4/30/2022

Customer Interruptions:

10,582

Number of Feeders:

31

8/3/2022

Customer Interruptions:

15,166

Number of Feeders:

51

12/12/2022

Customer Interruptions:

11,735

Number of Feeders:

85

4/19/2022

Customer Interruptions:

19,348

Number of Feeders:

37

10/22/2022

Customer Interruptions:


11,842

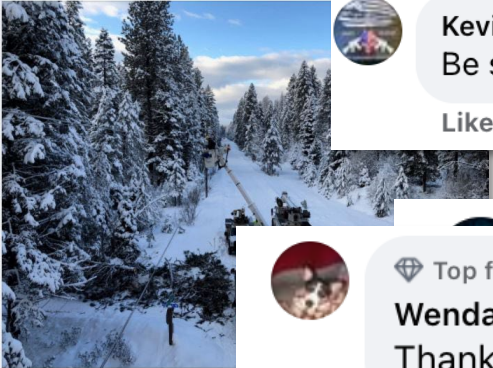
Number of Feeders:

63



# Social Media Posts and Pictures

**Idaho Power**  
Published by Melissa Thom · December 20, 2021 at 9:10 AM · ...  
Just another day in the office for our Valley County crews!  
#MyOfficeToday  
Lineman Stephen Darcy





11,712 People reached 697 Engagements


201 Likes 13 Comments 15 Shares


Like Comment Share


Comment as Idaho Power


**Genia Watkins**  
Thanks Stephen Darcy!  
Like · Reply · Hide · 2w · 1


**Gaye Anderson Bledsoe**  
Stay safe and thank you.  
Like · Reply · Hide · 2w · 1


**Kevin Baugh**  
Be safe out there!  
Like Reply

**Wendall Parker**  
Thank you Idaho Power!  
Like Reply 2d

**Ann Loftus**  
Thank you so much! We lost power but it's back now thanks to your teams out in the cold and snow.  
Like Reply 1d

**Craig Chappelle with A.V. West Real Estate** · Follow  
Thanks for the power back on!  
Like Reply 1d

**Sheryl Joplin**  
Good job guys! ❤️  
Like Reply 2d

**Julie E**  
Thank you for all you do-especially to the crew outside in the wet and cold to repair the lines. Stay safe. You are appreciated!  
Like Reply 1d

“Thank you Idaho Power!!! We were without power in my area of Emmett for only about two hours.”  
– Barbara D. Huguenin

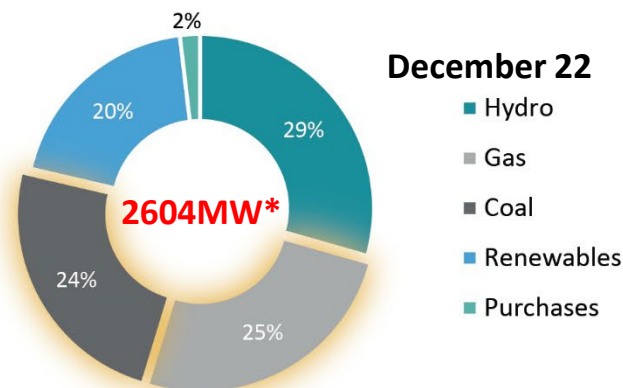
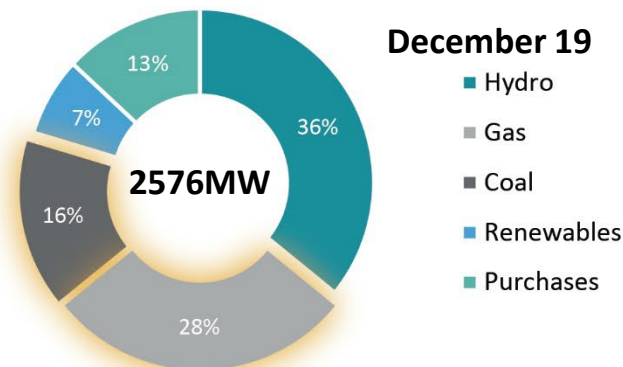
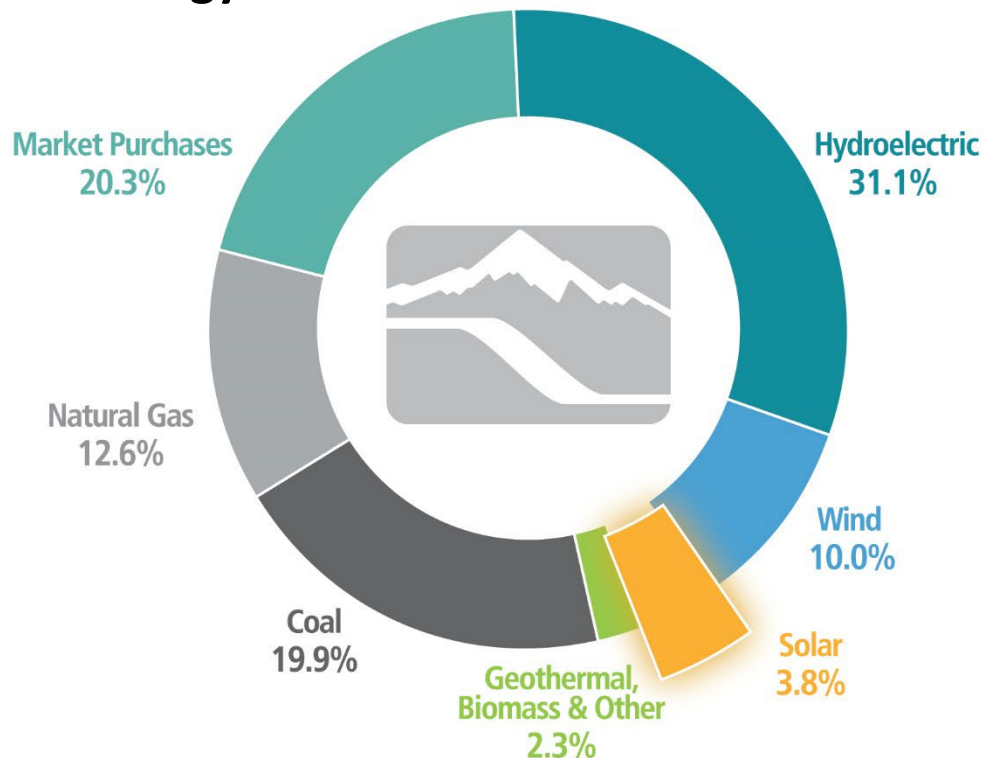
“Thank you so much for getting the power back on to us last night. I know they are still working to get it on to a few but

Good job Idaho

Thank you to your workers who spent their evenings and into the night seeing their power back on! It's cold and we appreciate them!

# New Winter Peak

## 2022 Energy Portfolio



\*Prior Peak: 2527MW



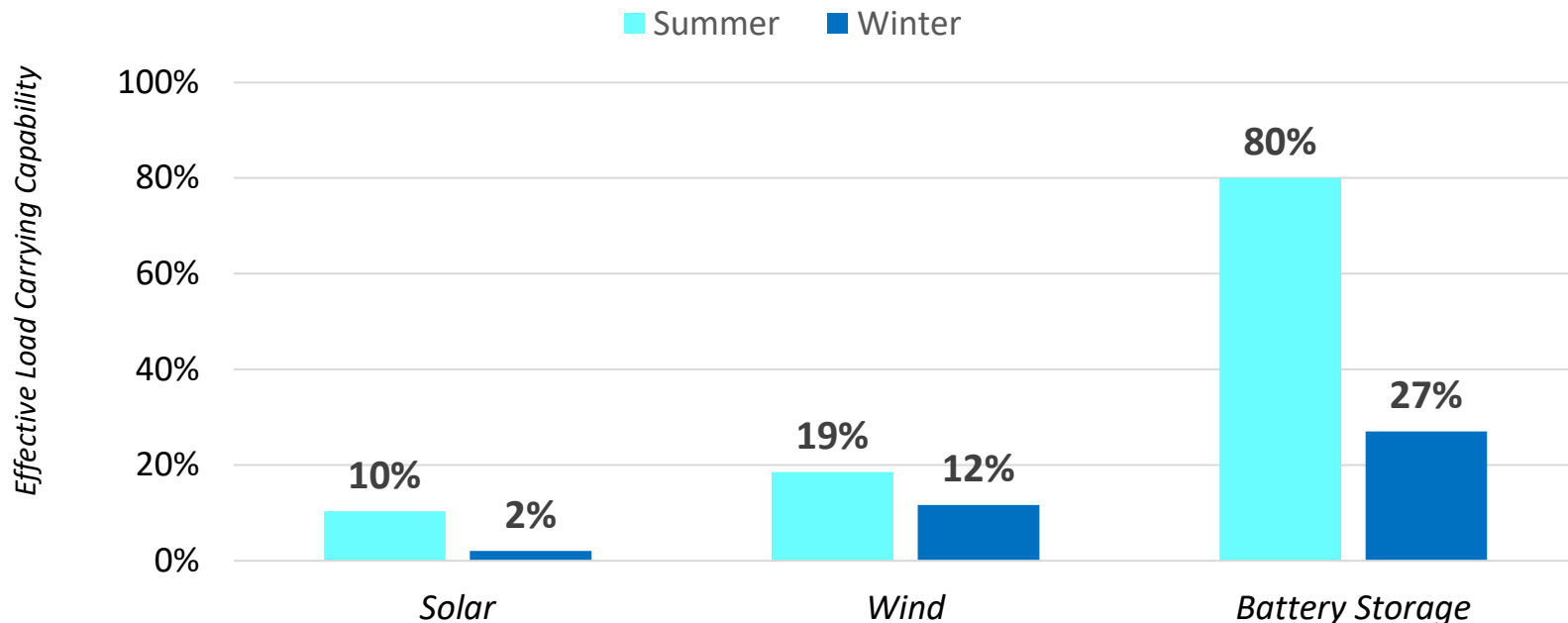


# Seasonal ELCCs

## Effective Load Carrying Capabilities



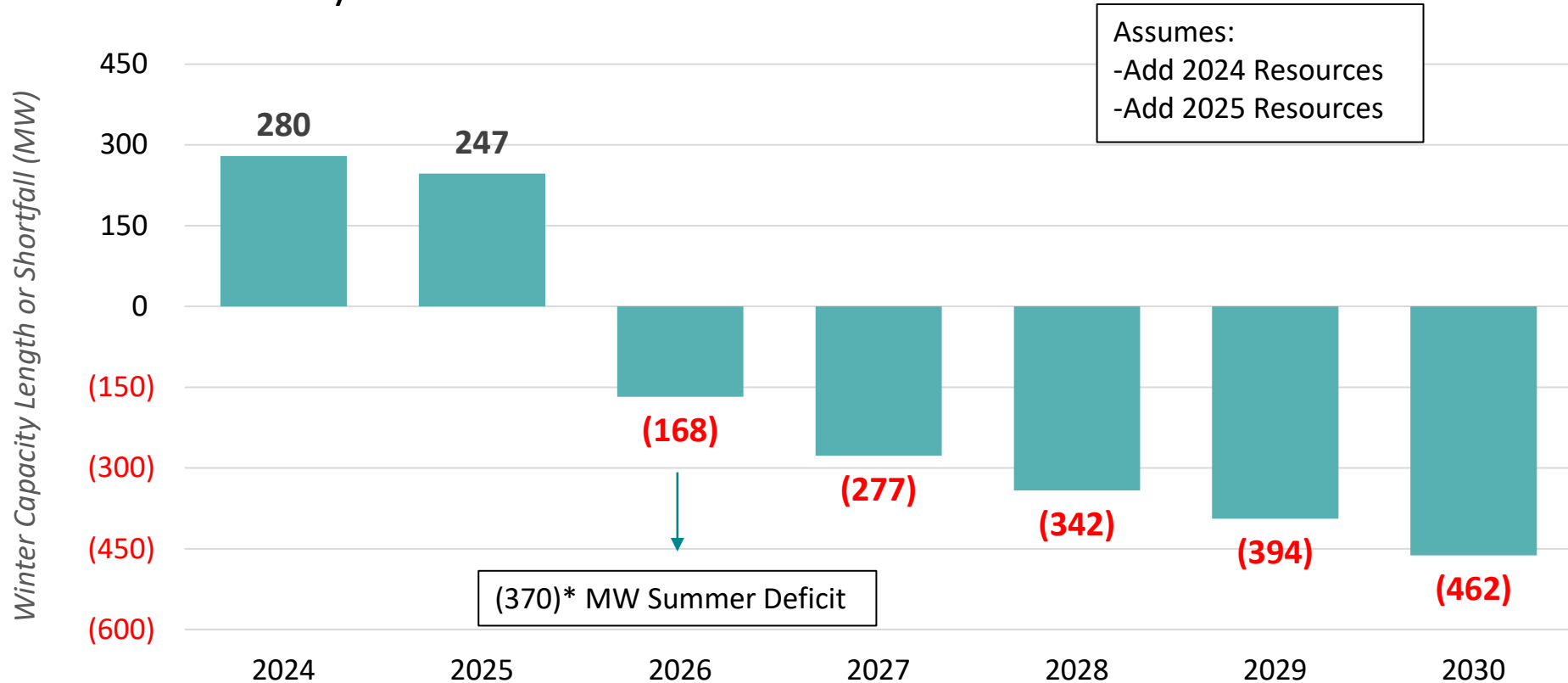
### 2026 Summer Versus Winter ELCC Values



Note: This slide is not indicative of 2023 IRP results.

# 2024-2030 Winter Capacity

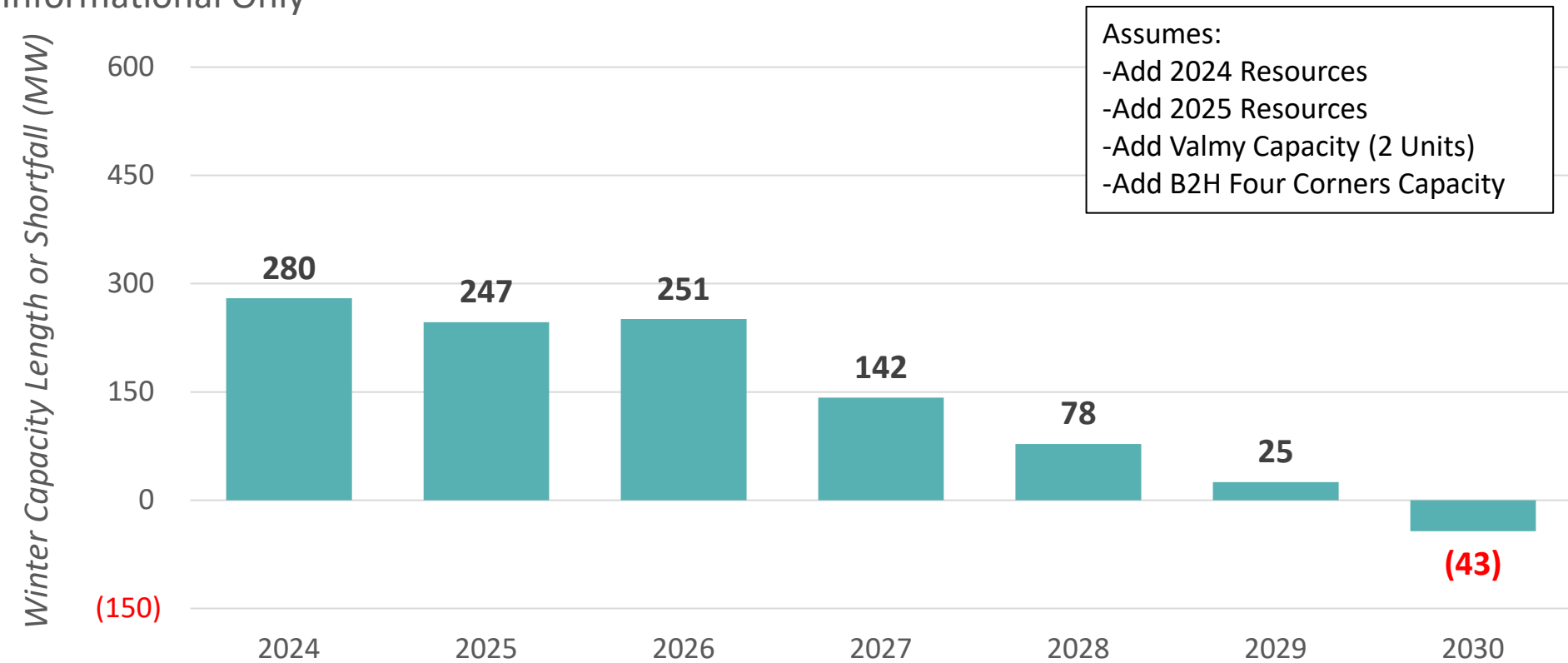
Informational Only



Note: This slide is not indicative of 2023 IRP results.

# 2024-2030 Winter Capacity

Informational Only



Note: This slide is not indicative of 2023 IRP results.

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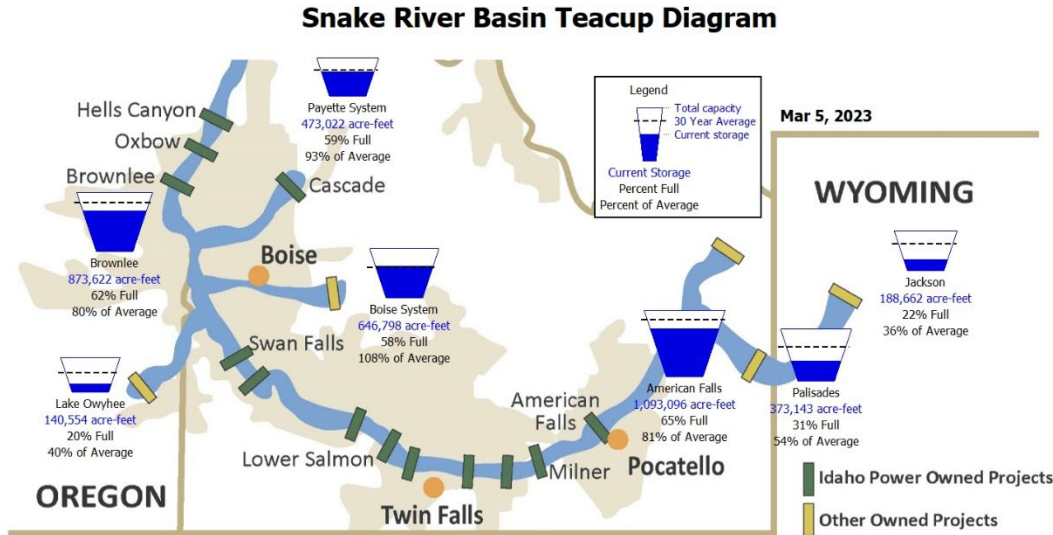
05

## Day Ahead Markets

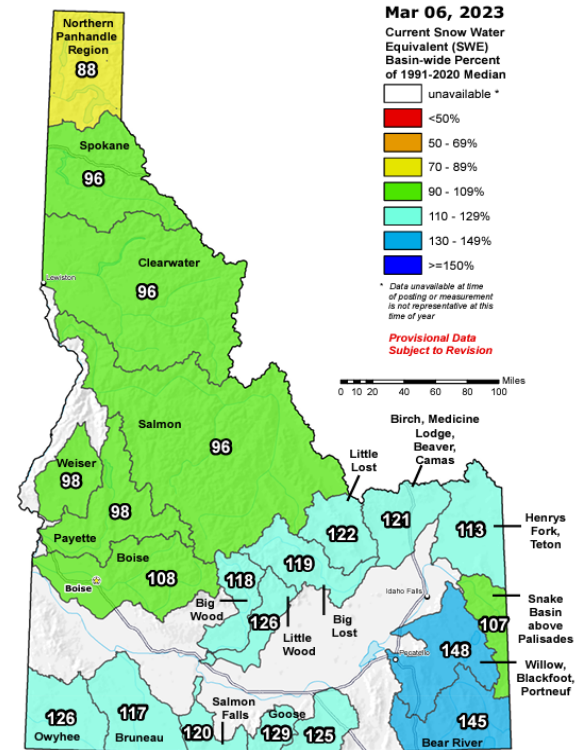
- ✓ EIM
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# 2023 Hydrologic Conditions

## Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal



\*Brownlee Percent of Average is based on WY1992-2020 to reflect fall Chinook operations. All other reservoirs use a period of WY1991-2020.



	% of Normal	% of Peak
Above Brownlee	107%	94%
Columbia River Basin	91%	78%



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# Connecting the West

*“Transmission is one of those issues that I think **there’s broad consensus** on. We’ve got to have #transmission in place to ensure that the #grid of the future is there.”*

— Source: Neil Chatterjee  
Former FERC Chair

*“There is no climate plan that is serious if it does not envision **a significant interregional transmission upgrade** of the grid that we have today.”*

— Source: Pat Wood, III  
Former FERC Chair



# B2H Deal

- We own 45% of the line (compared to 21%)
- BPA will take transmission service for at least 20 years to serve Eastern Idaho
- No upfront costs for Idaho Power to buy out BPA
- After 10 years, Idaho Power will pay BPA's permitting costs to date
- If B2H is not built, BPA must pay us back
- IRP results: \$265M NPV reduction compared to non-B2H portfolio

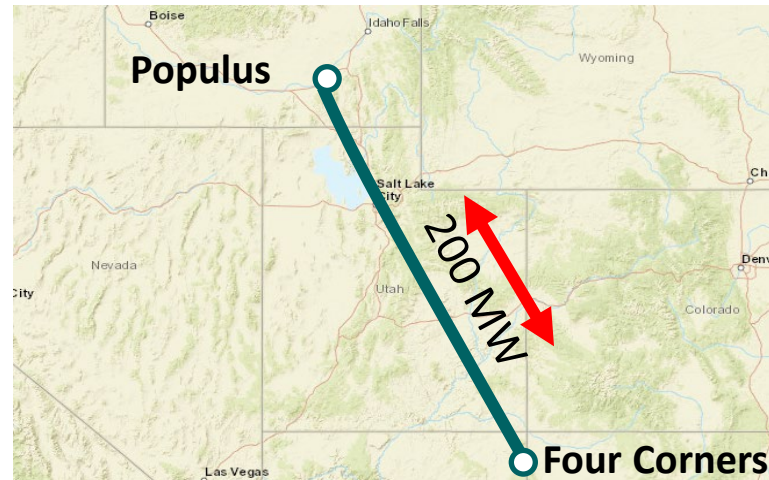


# Idaho Power

## PacifiCorp Transaction



### PacifiCorp to Idaho Power



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# 2023 Resource Additions

- 120 MW of battery storage
- 11 MW of distributed battery storage
- 40 MW Black Mesa solar PPA (Micron offtake)
- 120 MW Jackpot Solar PPA
- Additional Demand Response



# 2024 Resource Additions

- 100MW solar tied to 60MW battery (Franklin Project)
- Potential: Additional MWs storage at Hemingway
- Potential: Additional demand response



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# Types of Market Structures

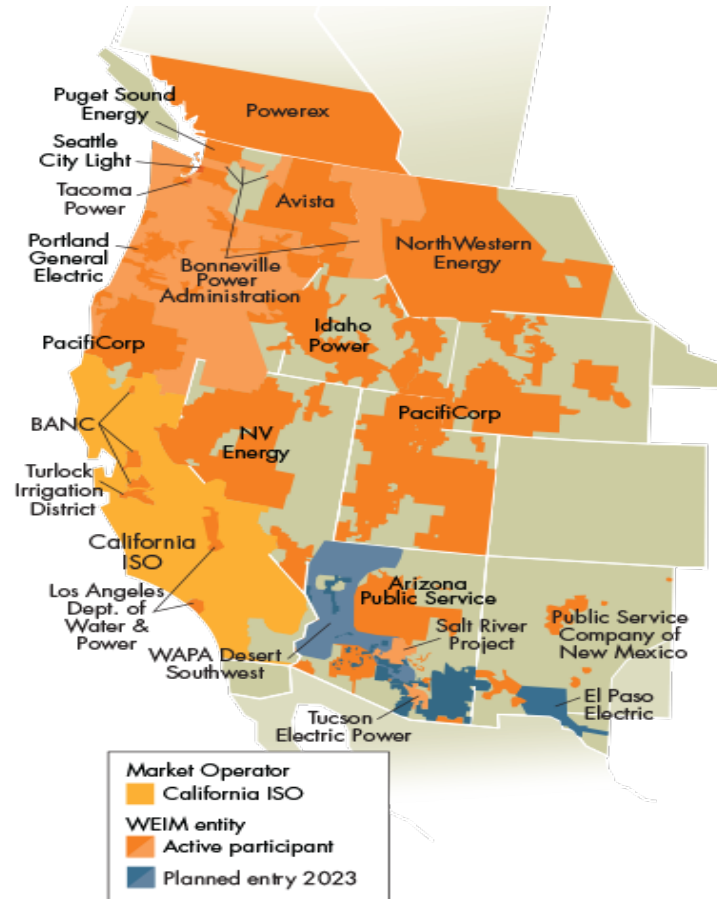
## Bi-Lateral Market

- Long-term and short-term agreements to buy and sell between two parties
- Negotiated price between two parties
- Prevalent in the West
- Multiple utilities operating own systems for the load needs in their specific area

## Day Ahead Market (DAM)

- Centrally optimized real-time and day-ahead energy market
- Individual transmission tariffs
- Individual balancing authority area boundaries and associated reliability obligations retained with each company's control room operators (multiple control rooms in footprint)
- Transmission providers retain operational control of transmission

# Energy Imbalance Market





# Serving Customer Load (Demand)

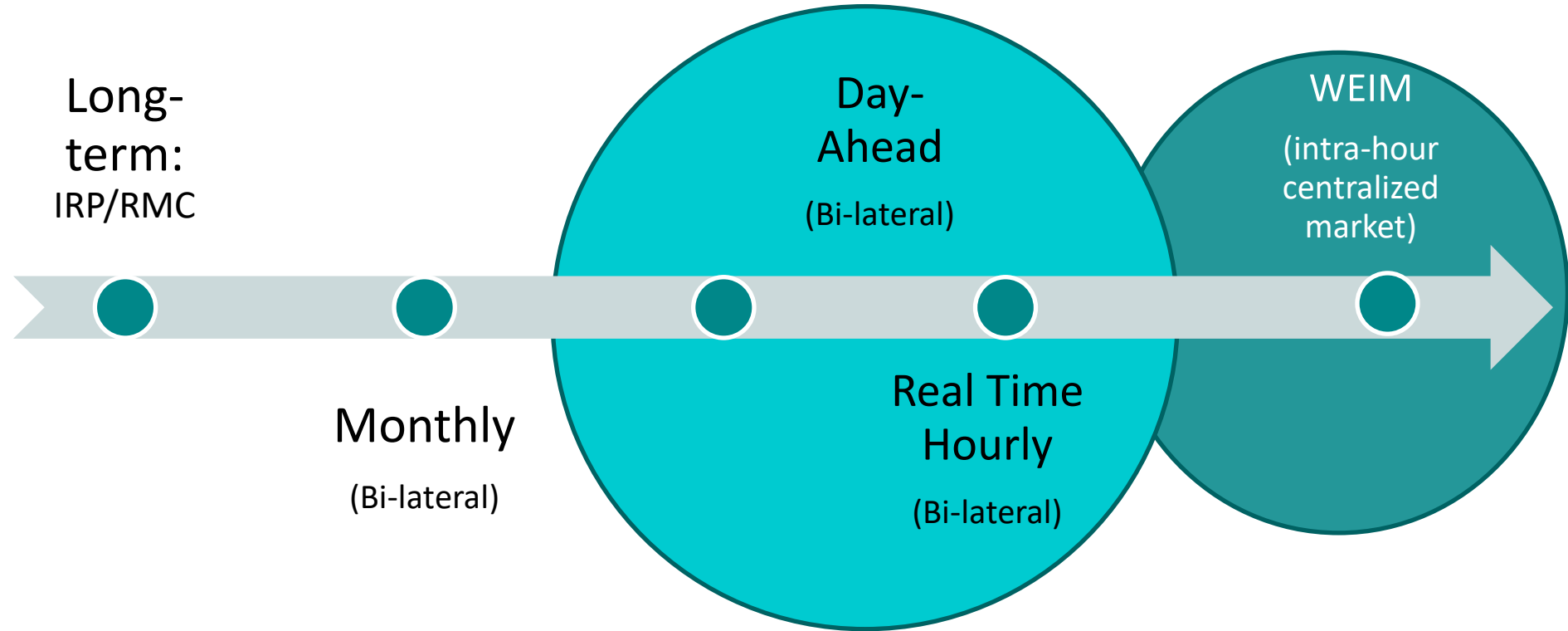
Long-term:  
IRP/RMC

Monthly  
(Bi-lateral)

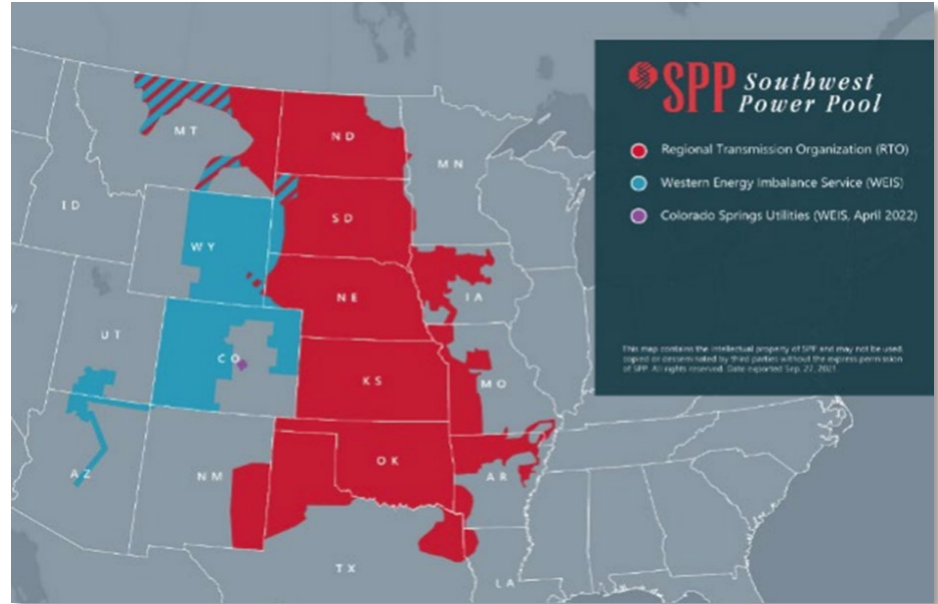
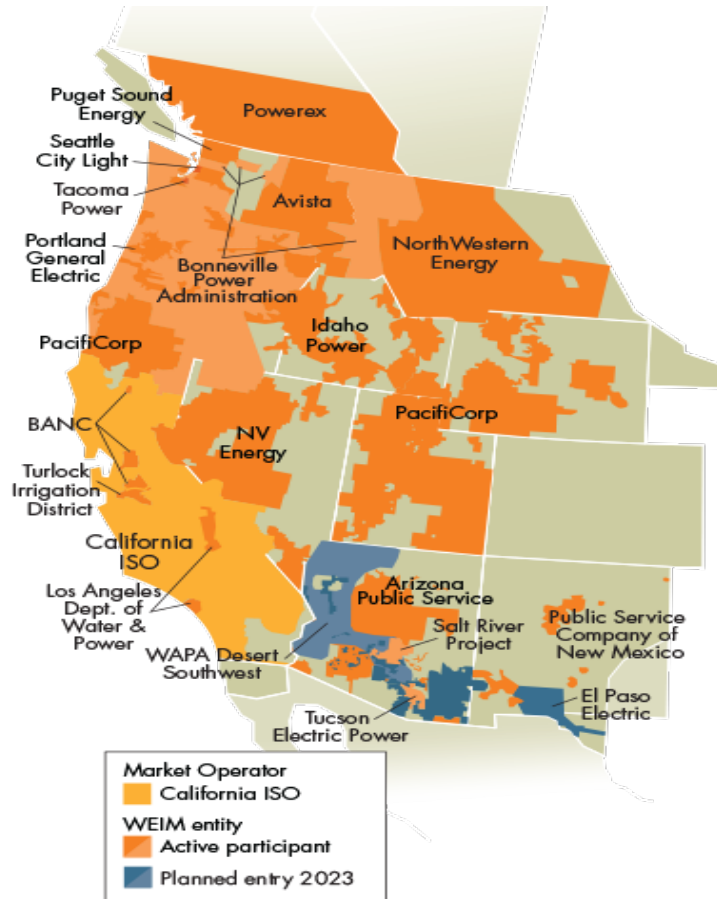
Day-Ahead  
(Bi-lateral)

Real Time  
Hourly  
(Bi-lateral)

WEIM  
(intra-hour  
centralized  
market)



# Day-Ahead Markets



# Considerations

- Market diversity
- Reduced power costs
- Added efficiencies

## 1. Customer Benefits



- Short-term transmission revenue does not decrease in market
- Future transmission build is compensated

## 2. Transmission Revenue



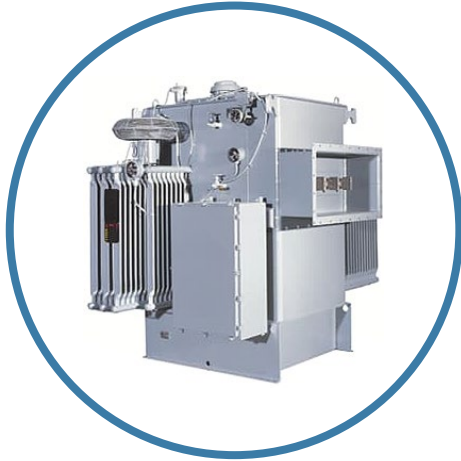
- All utilities are bringing sufficient resources
- Reliability of Idaho Power is not impacted more than status quo

## 3. Resource Sufficiency



Two more quick things....

# Lead Times



## TRANSFORMERS

Was: 32 Weeks

Now: 156 Weeks



## METER PACKAGES

Was: 12-14 Weeks

Now: 72 Weeks



## CABLE

Was: 20 Weeks

Now: 50 – 78 Weeks



# Lead Times



**DISTRIBUTION  
TRANSFORMERS**  
**Was: 18 Weeks**  
**Now: 42 Weeks**



**BREAKERS**  
**Was: 32 Weeks**  
**Now: 72 Weeks**



**Transmission  
Crossarms, X-Braces**  
**Was: 12 Weeks**  
**Now: 32 Weeks**

# Substation Security

Deter, Delay, Detect, Assess, Respond

- Deter and Delay:
  - Enhanced Fencing
  - Annunciators
- Detect:
  - Camera Analytics
  - Linger and Cross-Line Detection
  - Radar
- Assess and Respond:
  - Unified Security Platform
  - Triage Instructions
  - State and Local Police Department Relationships

