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# **T&D Deferral**

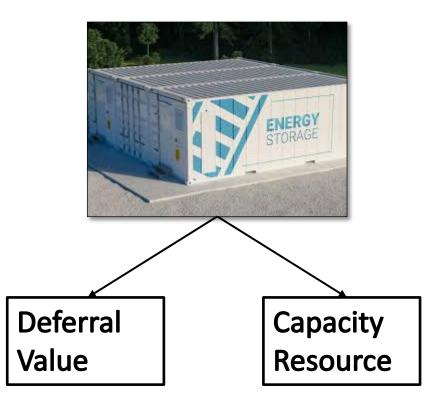
Jim Burdick, Distribution Planning

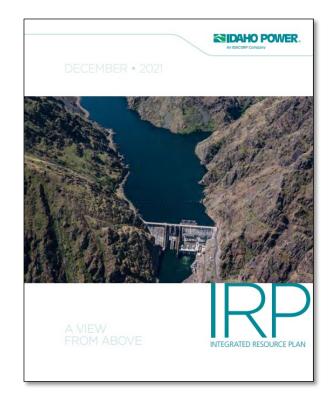
Jan. 12, 2023

# **T&D Deferral Value**



# **T&D Deferral** — IRP







\*Not an Idaho Power transformer





Asset Replacement Grid Needs don't typically work well with NWS.



# **Solution Development Toolbox**

#### **Traditional Solutions**

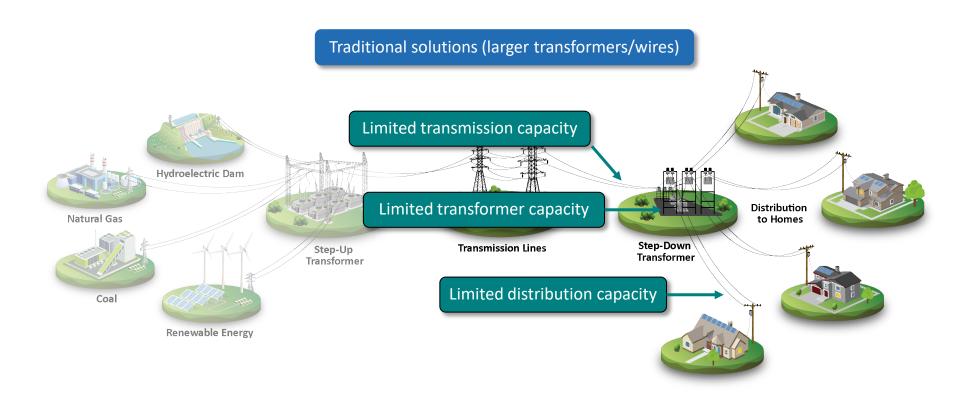


#### Non-wires Solutions (NWS)

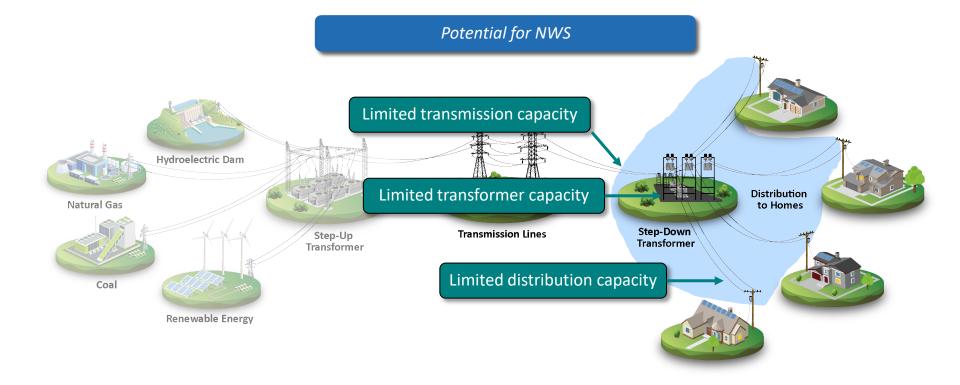


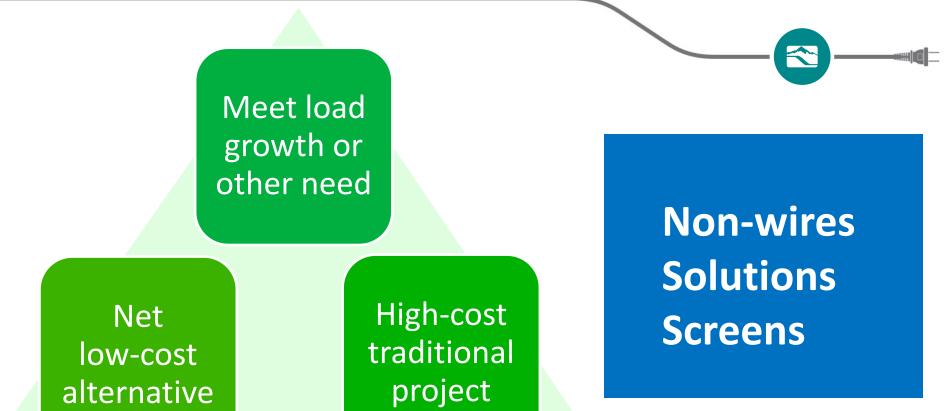


# **Capacity Solutions**



# **Capacity Solutions**





# **MOON42 End of Feeder PV Project**

### **Battery Storage Considerations**

### Large Scale

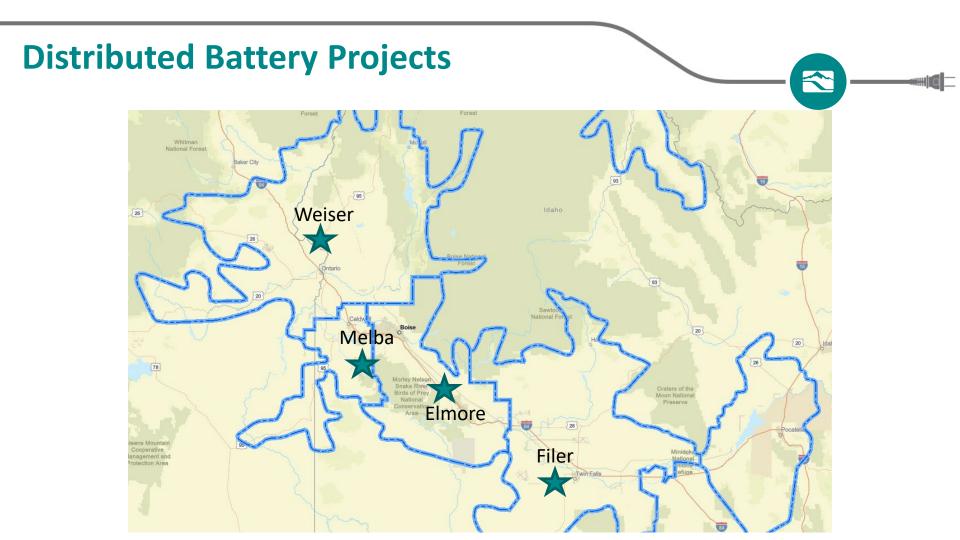
- Economies of Scale
- System Peak/Local Peak

Distributed

- Deferral Benefit
- Local Peak/System Peak



VS.



#### Weiser – NWS Review

### Peak occurs summer at 9 p.m.

### Modest growth <0.85% per year

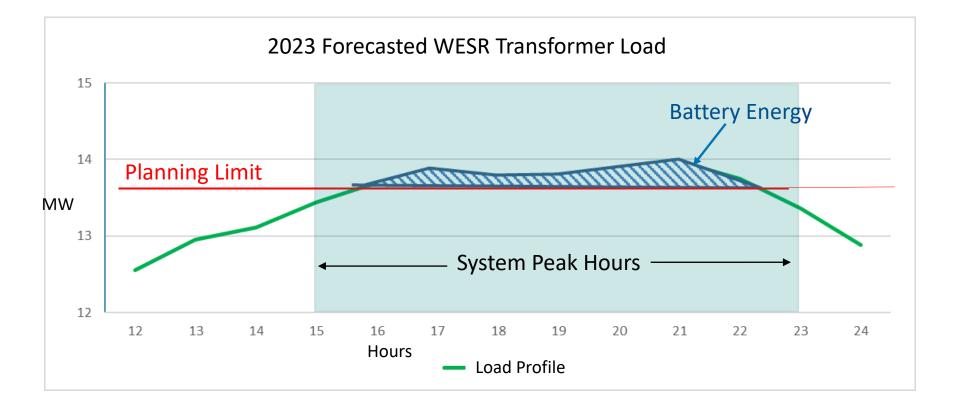
## High cost for traditional solution

### **Storage Resource Needs**

#### Table 1.1 Preferred Portfolio additions and coal exits (MW)

	Base B2H (MW)								
Year	Gas	Wind	Solar	Storage	Trans.	DR	Coal Exits	EE Forecast	EE Bundles
2021	0	0	0	0	0	0	0	23	0
2022	0	0	0	0	0	300	0	24	0
2023	0	0	120	115	0	20	-357	24	0
2024	357	700	0	5	0	0	0	25	0
2025	0	0	300	105	0	20	-308	27	0
2026	0	0	215	0	500	0	0	28	0
2027	0	0	250	5	0	0	0	27	0
2028	0	0	120	55	0	0	-175	27	0
2029	0	0	100	255	0	0	0	26	0
2030	0	0	0	55	0	0	0	24	0
2031	0	0	0	55	0	0	0	24	0

### **Weiser Storage Peak Shaving**



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### **WESR Battery System**

# **Battery Project Details**

- 3 megawatt (MW) capacity 4-hour battery (12 megawatt-hour [MWh])
- Expandable to 4 MW capacity 4-hour battery (16 MWh)
- Expected to defer traditional project for 8 years



### **T&D Deferral IRP Modeling**



• T&D Deferral Value is modeled as a capital cost decrease to distributed storage in the IRP.

• 5 MW of grid-distributed storage is allowed to be built in any given year of the IRP.