

Energy Storage Opportunities in PJM

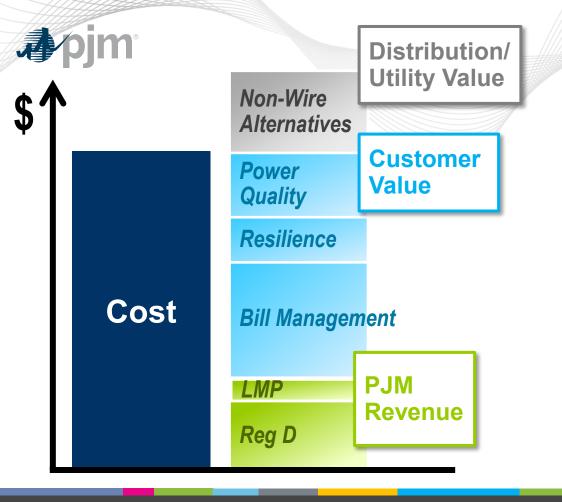


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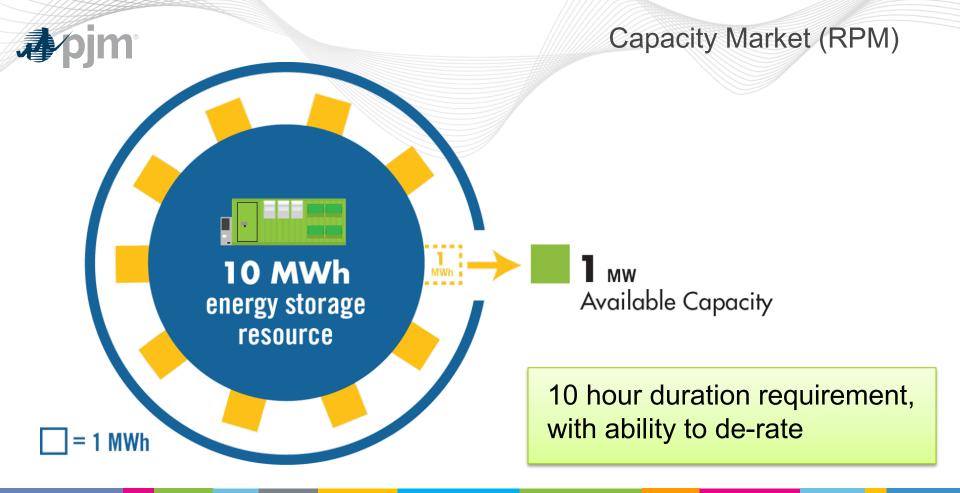
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Village of Minster, OH

- Reducing Peak Load
- Voltage Control and Power Factor Correction
- Regulation (PJM Market)







Storage & Hybrids in the PJM Queue

~100 GW natural gas + standalone renewable resources



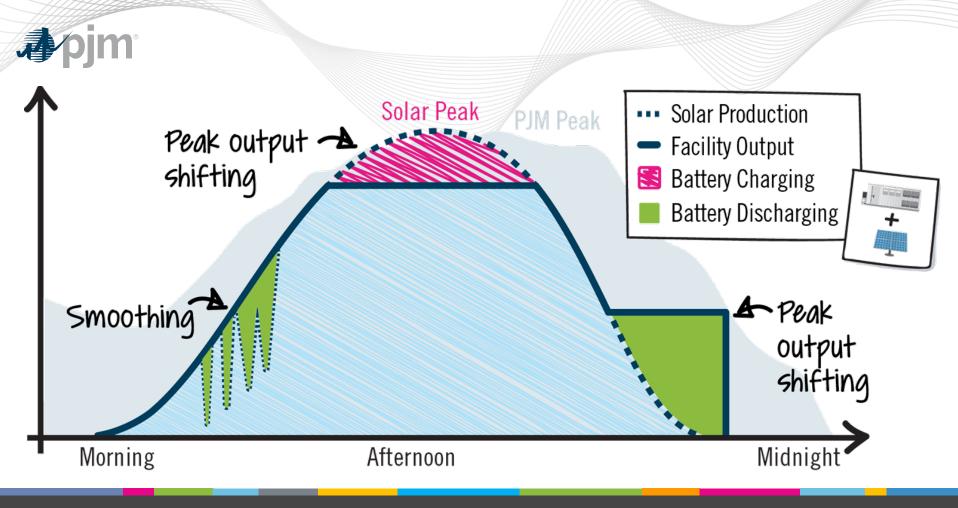
~4 GW hybrid renewables + storage

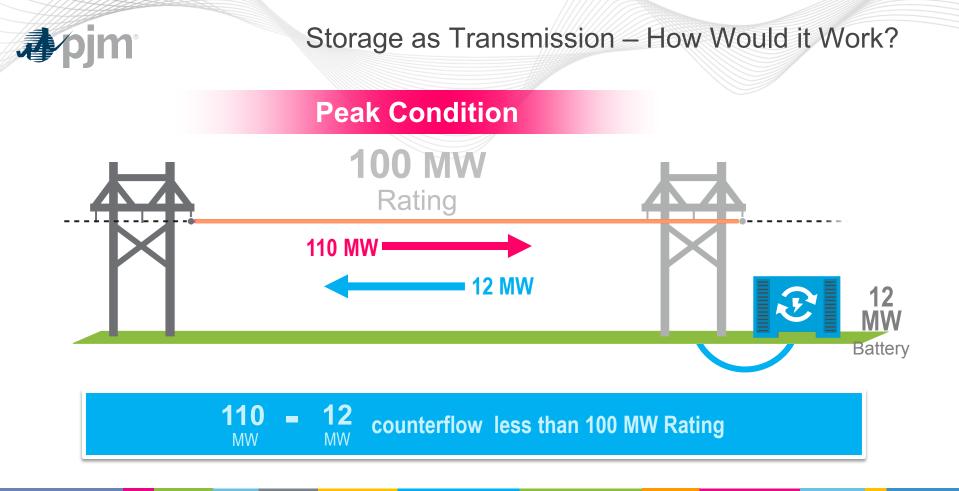
~2 GW standalone storage Hybrid Renewables + Storage

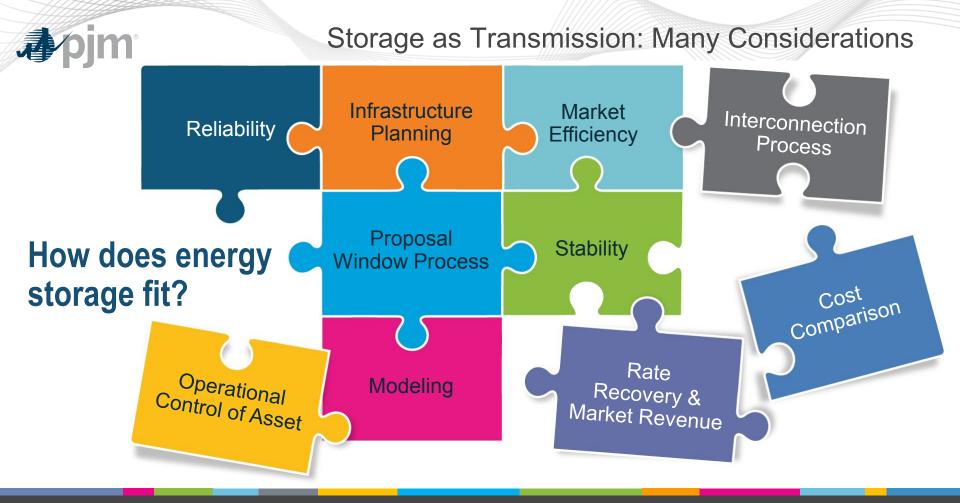
- Mostly >100 MW
- Several < 20 MW
- Several in between

Standalone Storage

- Mostly < 20 MW
- Several >100 MW







Continued Growth in Renewable Energy Necessitates Efficient Reserve Markets and Flexibility Incentives

Cumulative Nameplate (MW)

