## **Calculating Scarcity Rents**

## EPFSTF January 11, 2019

Joe Bowring Catherine Tyler

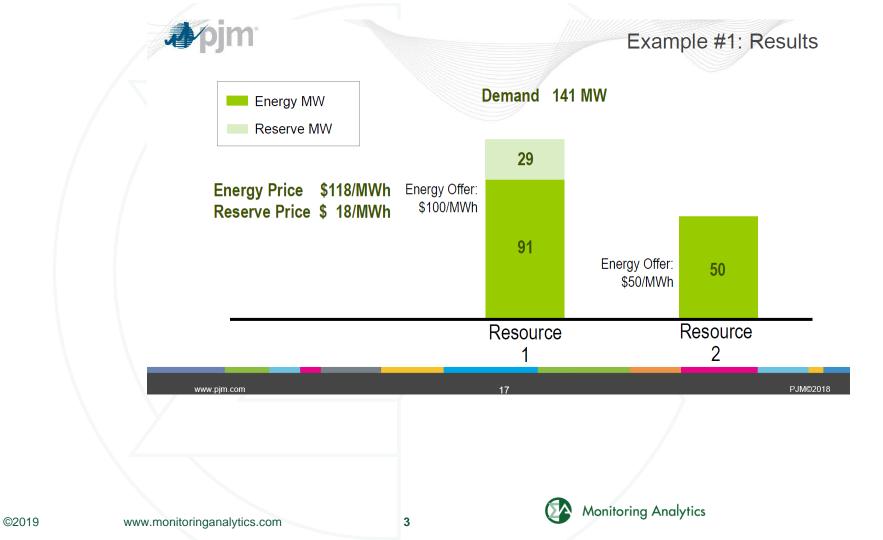


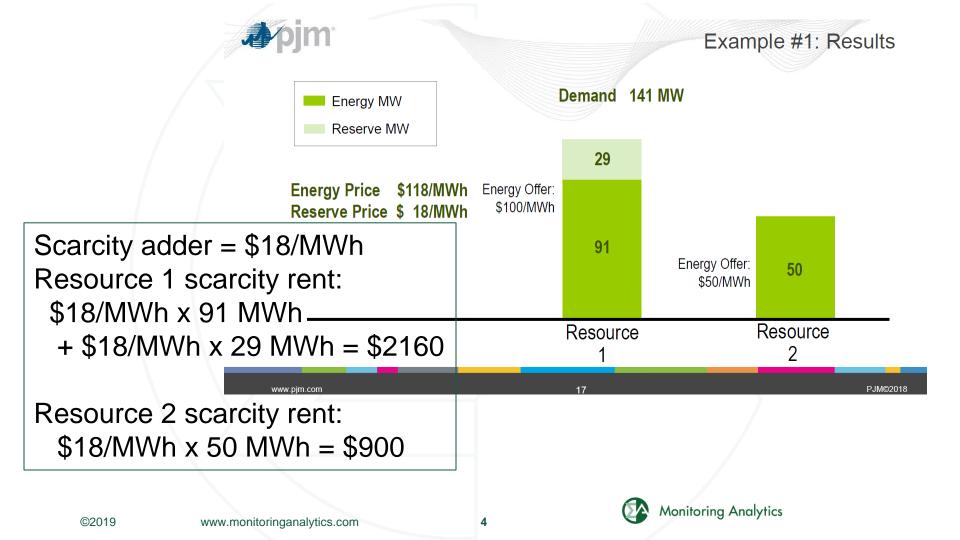
**Monitoring Analytics** 

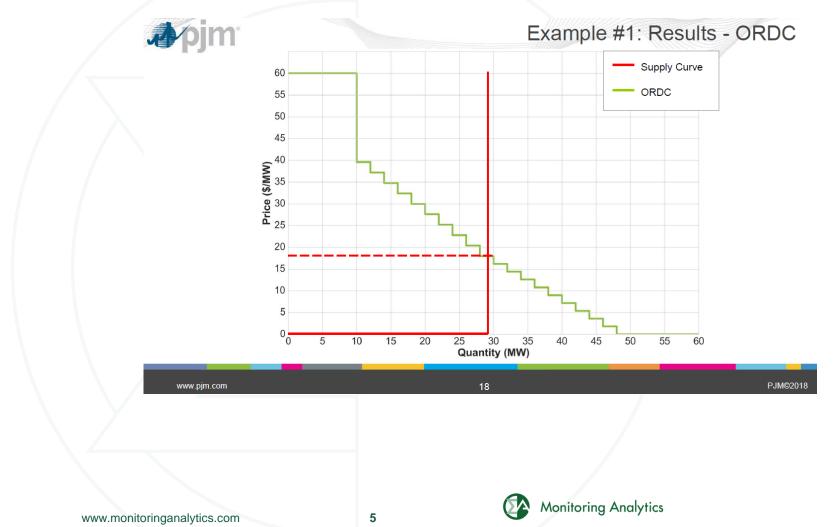
## **Calculation of Energy Market Scarcity Rents**

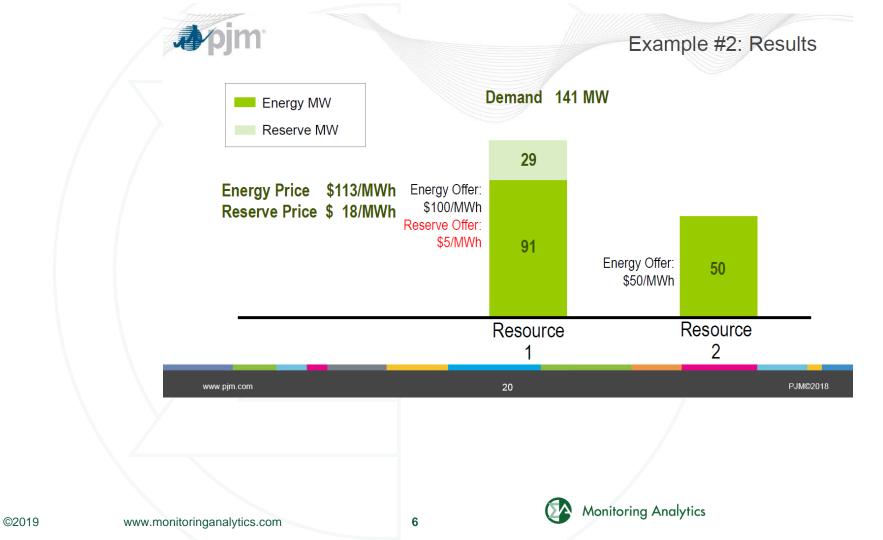
- Scarcity rents in energy and reserve markets are the portion of revenues directly attributable to the scarcity price adder to LMP.
- The scarcity adder to LMP is the difference between the LMP and the marginal cost of the marginal unit.
- The scarcity adder to the reserve price is the amount of the LMP scarcity when it enters the reserve price through the lost opportunity cost of the marginal reserve resource.

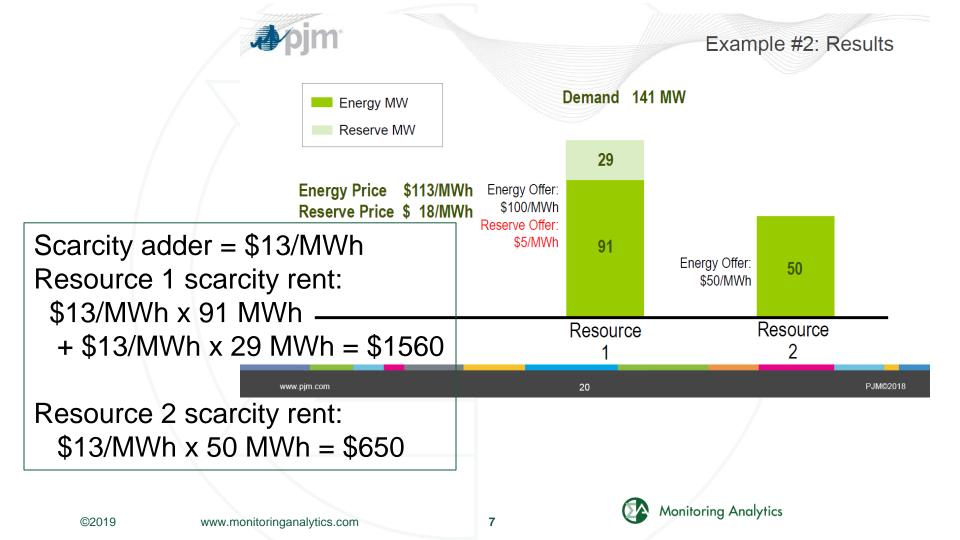


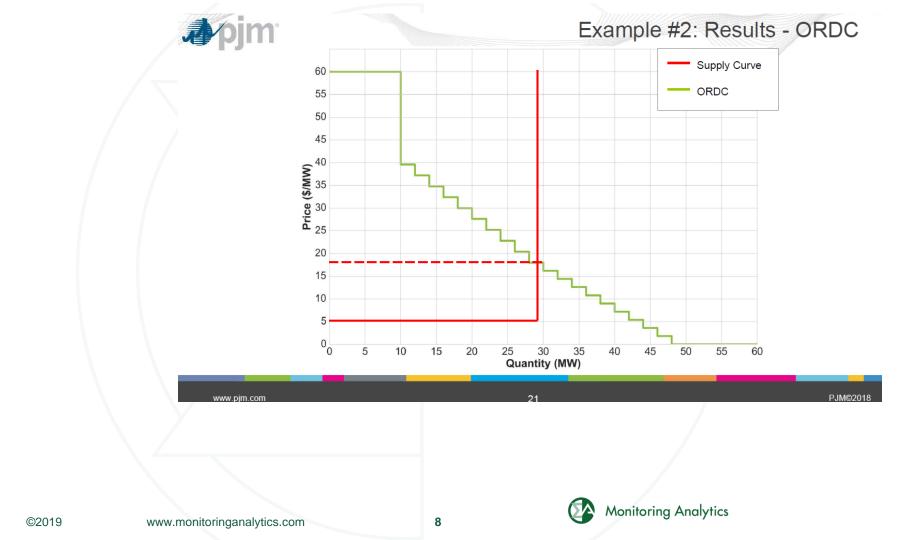


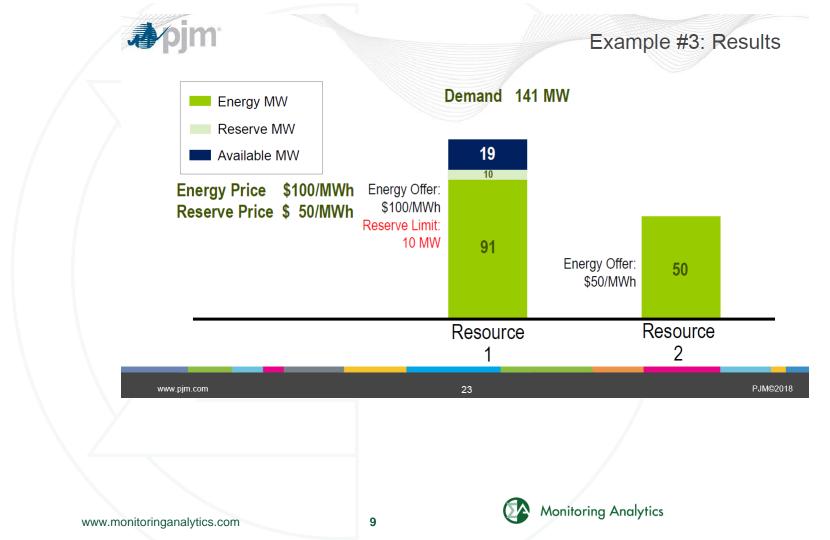


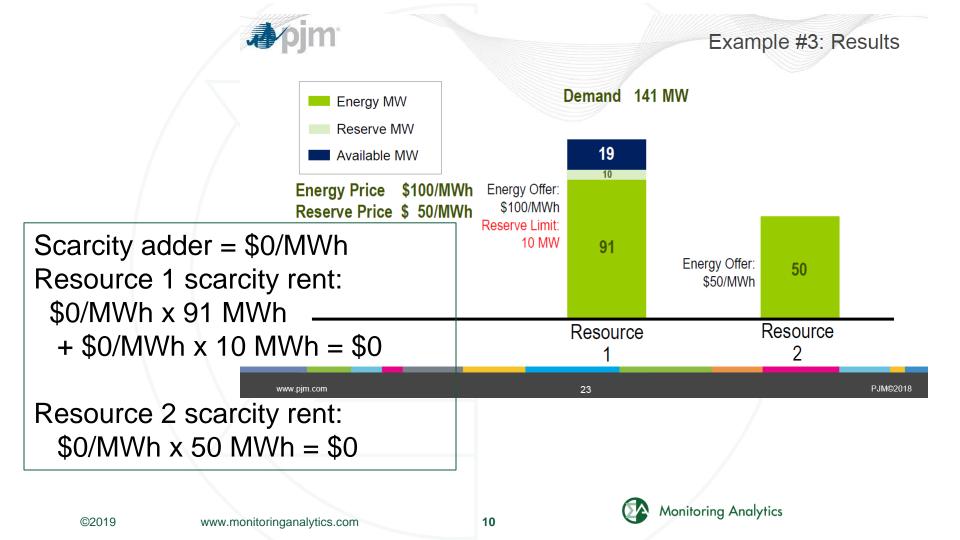


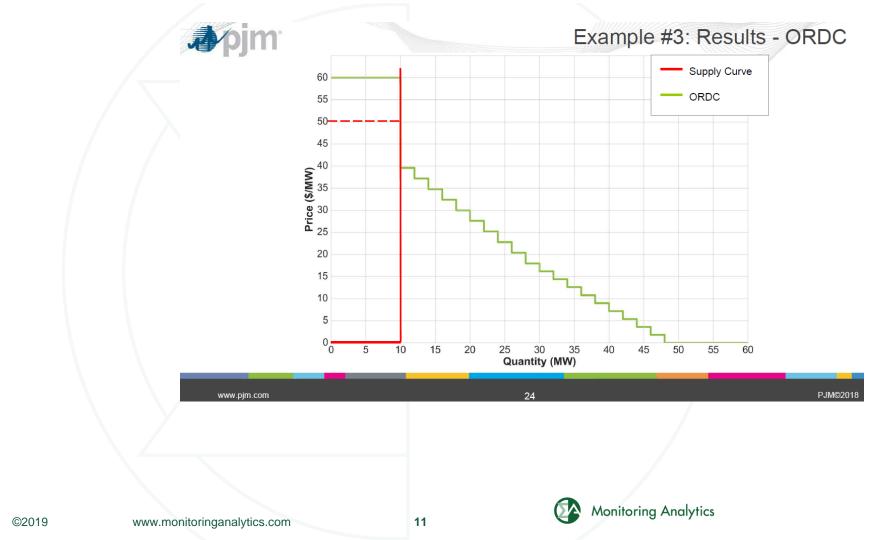


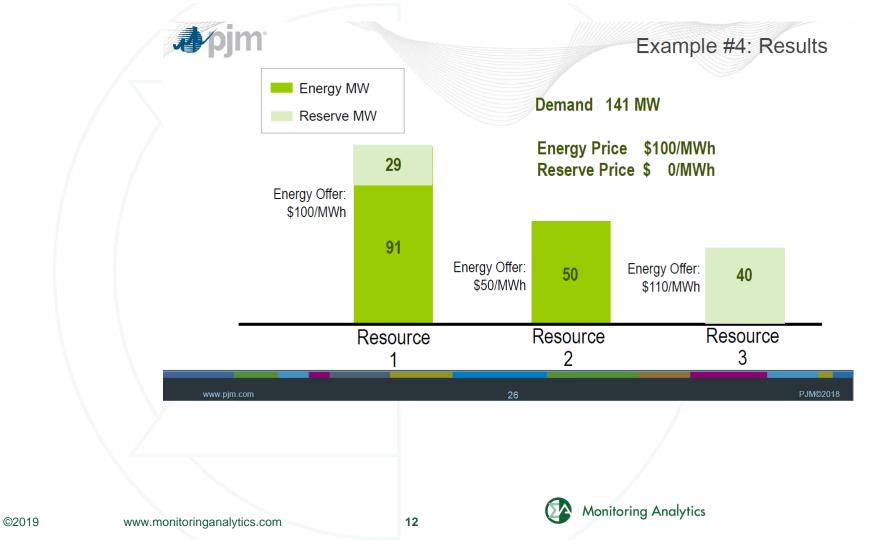


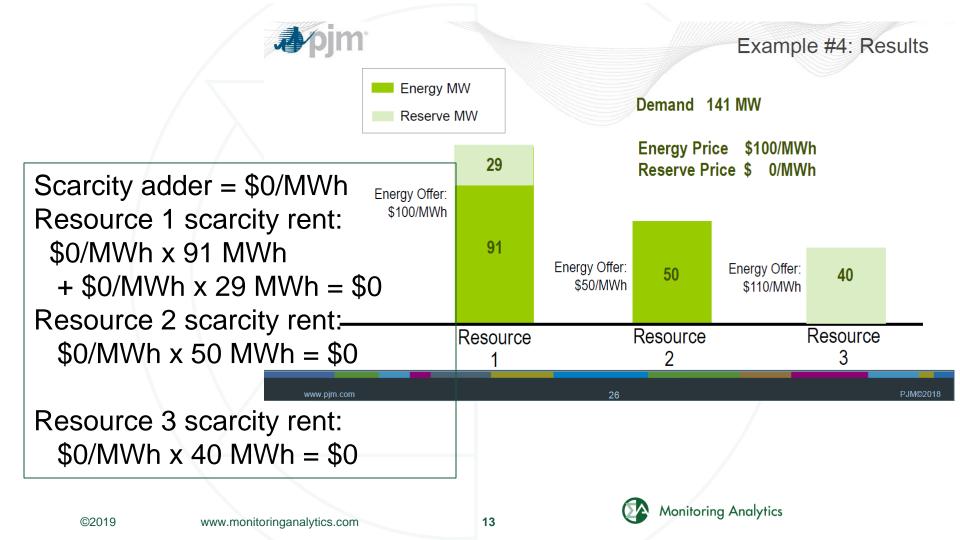


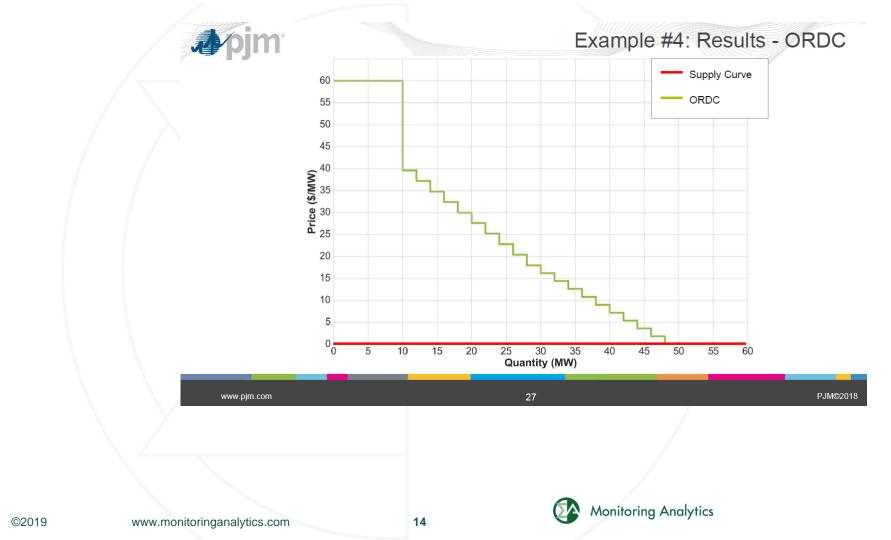


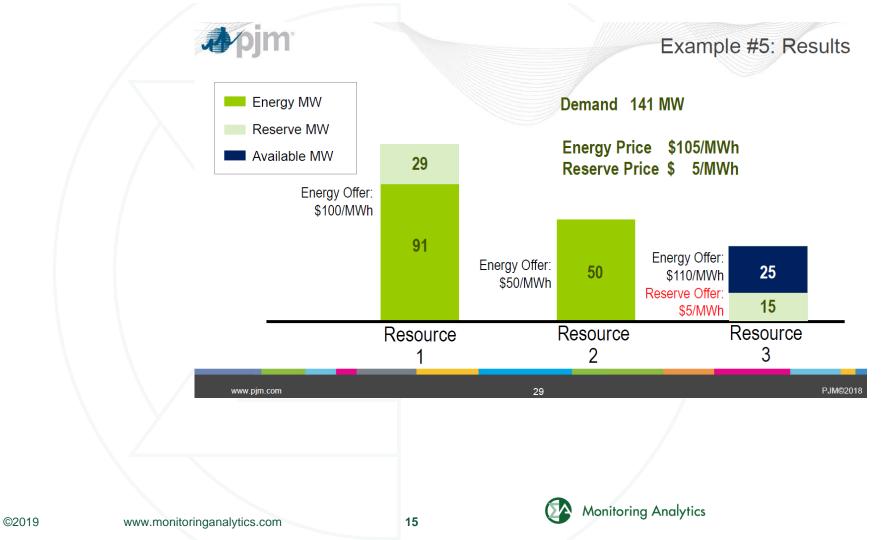


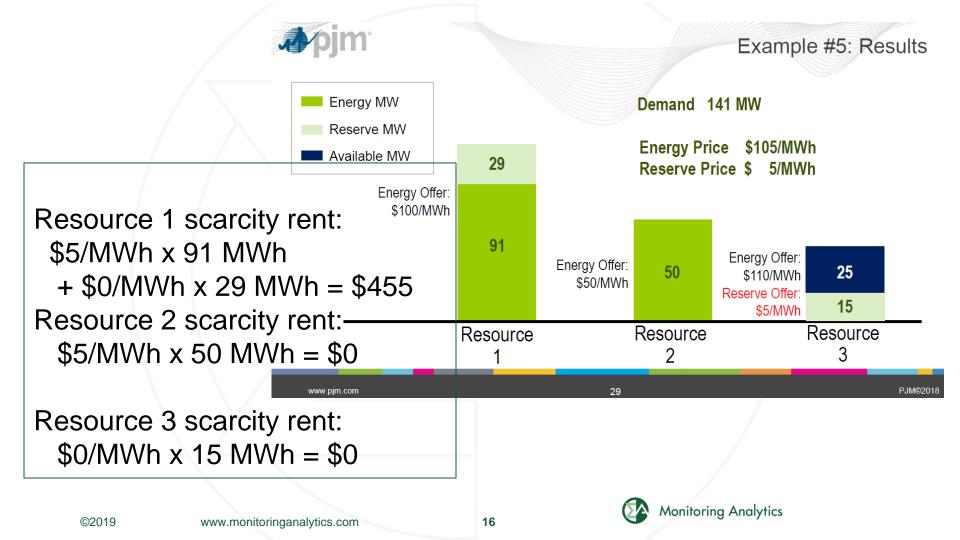


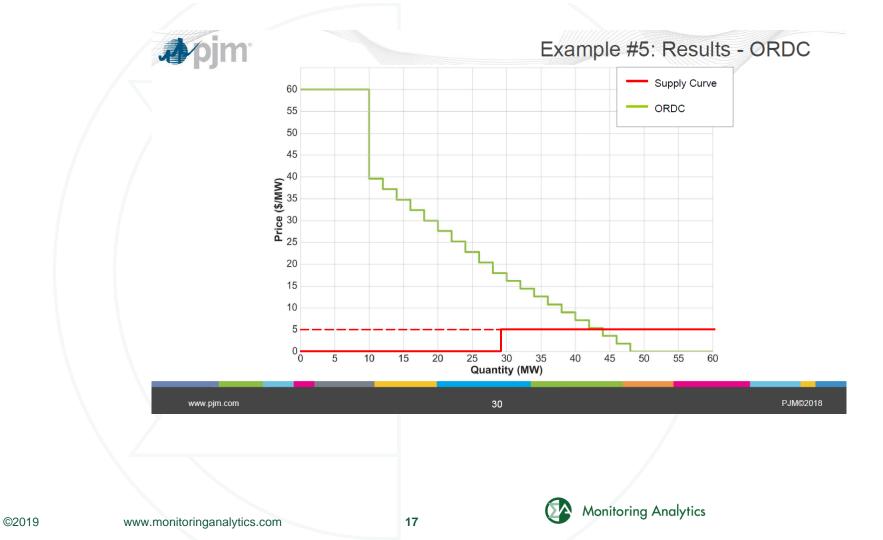


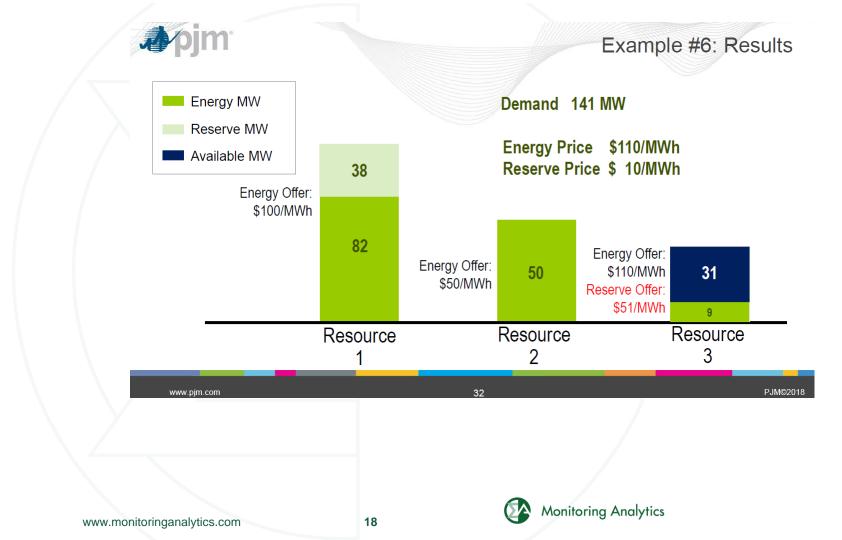


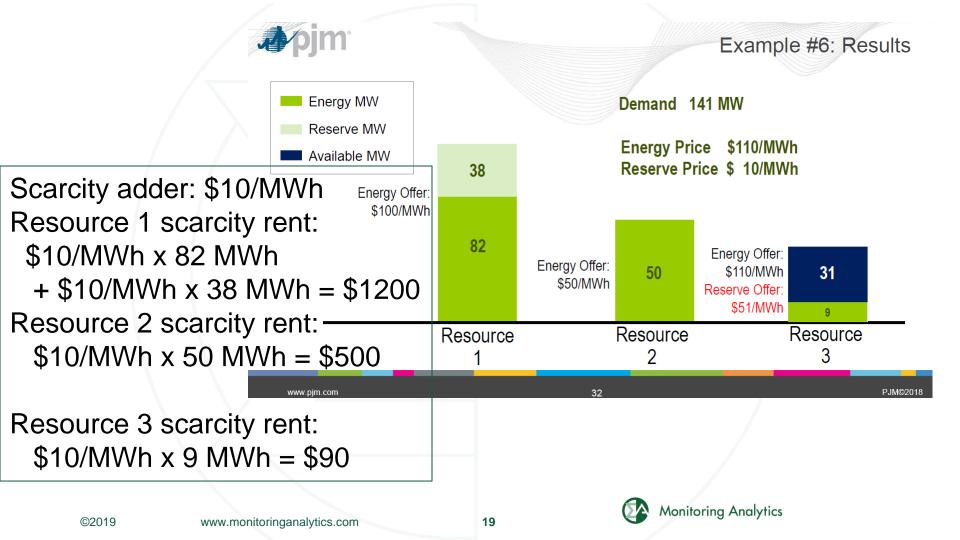














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