

Playing Well With Others? Co-location of Battery Storage Projects With Wind and Solar

UT Law Renewable Energy Conference

January 31, 2017

McGUIREWOODS

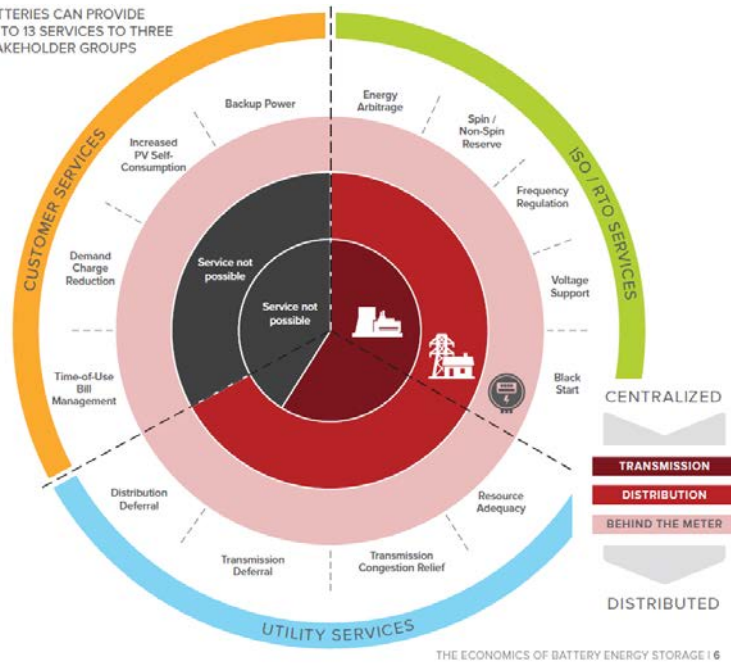
www.mcguirewoods.com

Panelist Introductions

- **Suzanne Escudier**, S&C Electric Company, Chicago, IL
- **Les Sherman**, Orrick, Herrington & Sutcliffe LLP, San Francisco, CA
- **Clark Korbisch**, Advanced Microgrid Solutions, Austin, TX
- **Becky H. Dffen**, McGuireWoods LLP, Austin, TX

Services Provided by Batteries

BATTERIES CAN PROVIDE UP TO 13 SERVICES TO THREE STAKEHOLDER GROUPS

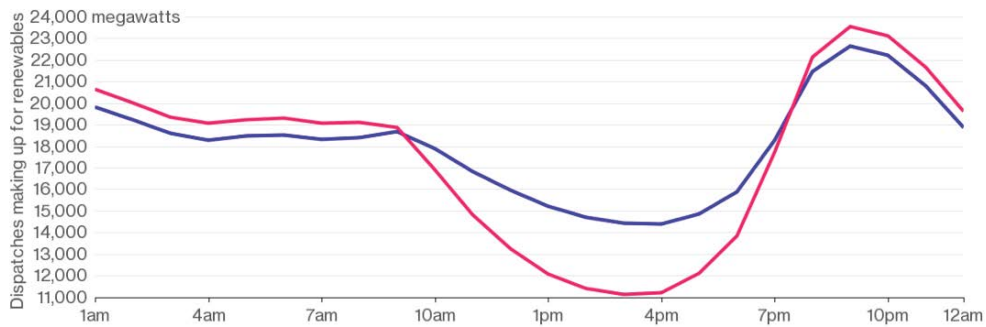


Duck Curve

The California Duck Curve

The power California has to dispatch to make up for intermittent renewables surges in the late afternoon hours, creating a curve resembling the profile of a duck.

■ 2015 ■ 2020 Forecast



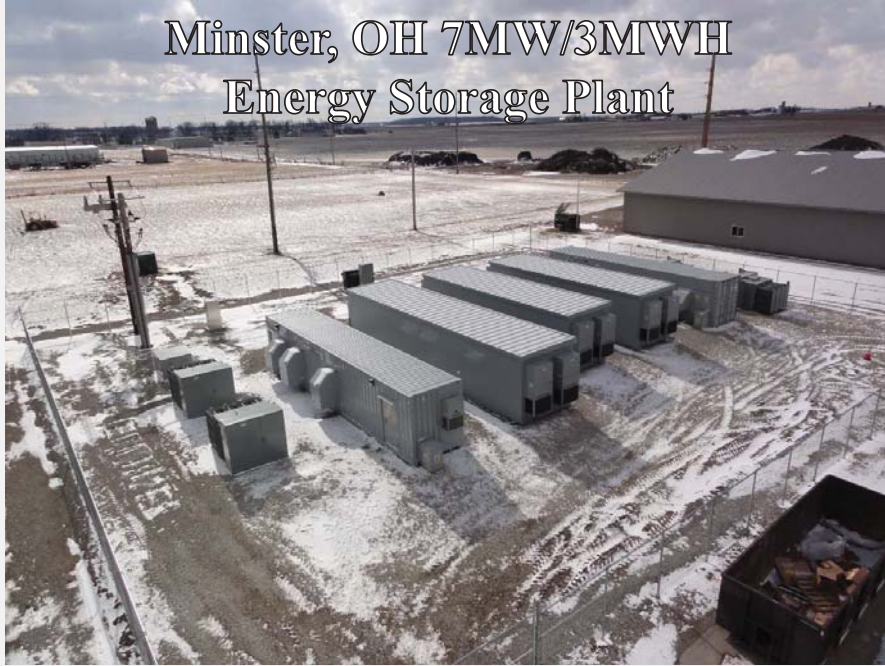
Source: California ISO

Note: Data is from March 31, 2015, and from forecasts for March 31, 2020.





Minster, OH 7MW/3MWH Energy Storage Plant



sandc.com



Minster 7MW/3MWH Energy Storage with 4.4MW Photovoltaic Plant Project

Case Study: Energy Storage with Solar

- Energy storage + PV = delivering true value to customers, and boosting returns.
- The village of Minster, OH had a desire to increase their renewables portfolio & “go green”.
- Secret to financing uncontracted revenue – monetizing many ancillary benefits simultaneously & benefits to flow to multiple stakeholders
 - three primary revenue streams/cost avoidance.

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