

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

UT Law Renewable Energy Conference

January 31, 2017

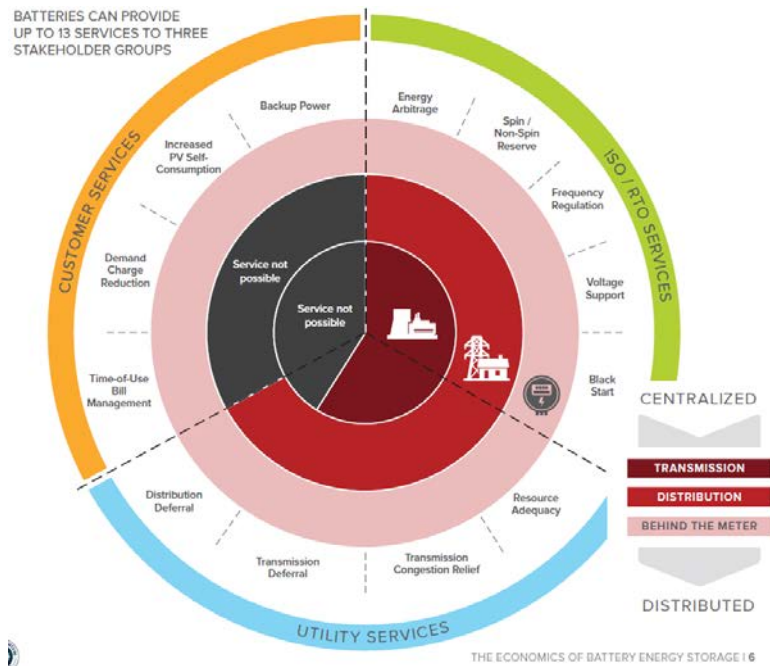
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Panelist Introductions

- **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. Diffen**, McGuireWoods LLP, Austin, TX

Services Provided by Batteries



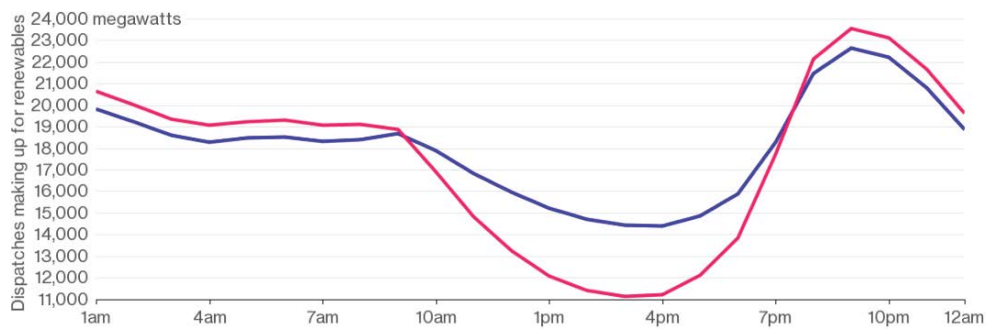
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Duck Curve

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.

Bloomberg

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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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