



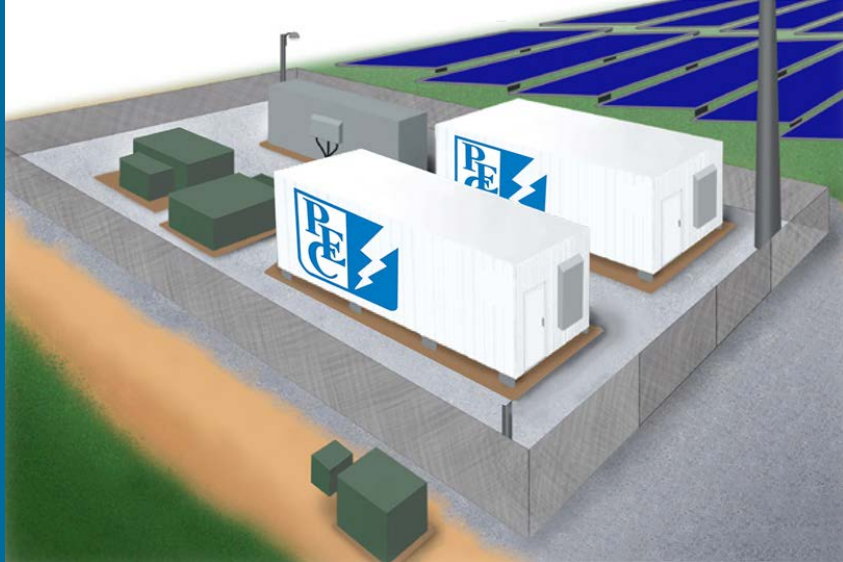
UT Energy Week 2018

PEC Battery Energy Storage Solution Project (BESS)

Jim Spaulding, Director, Project Development Energy Services

January 29, 2018

The Battery Energy Storage System (BESS) Project Benefits



- Hedge cost of PEC Ancillary Service Obligation* with self procured storage
- Energy usage shifting helps avoid peak energy pricing
- Flexible design configuration allows for shifting BESS to offset 4CP fees if optimal
- Learn from project and apply knowledge to enhance system reliability, support member projects, and defer distribution infrastructure capital projects

*Ancillary Service Obligation is mandatory as an ERCOT Load Serving Entity (LSE)

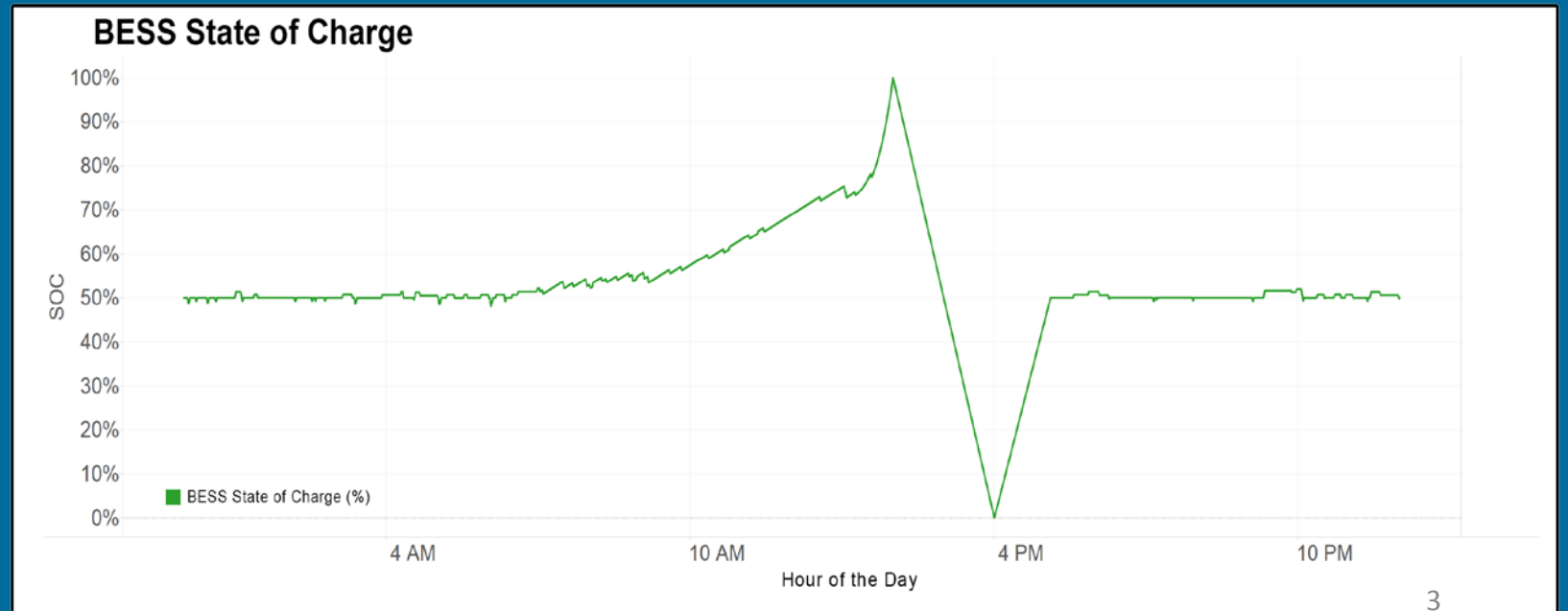
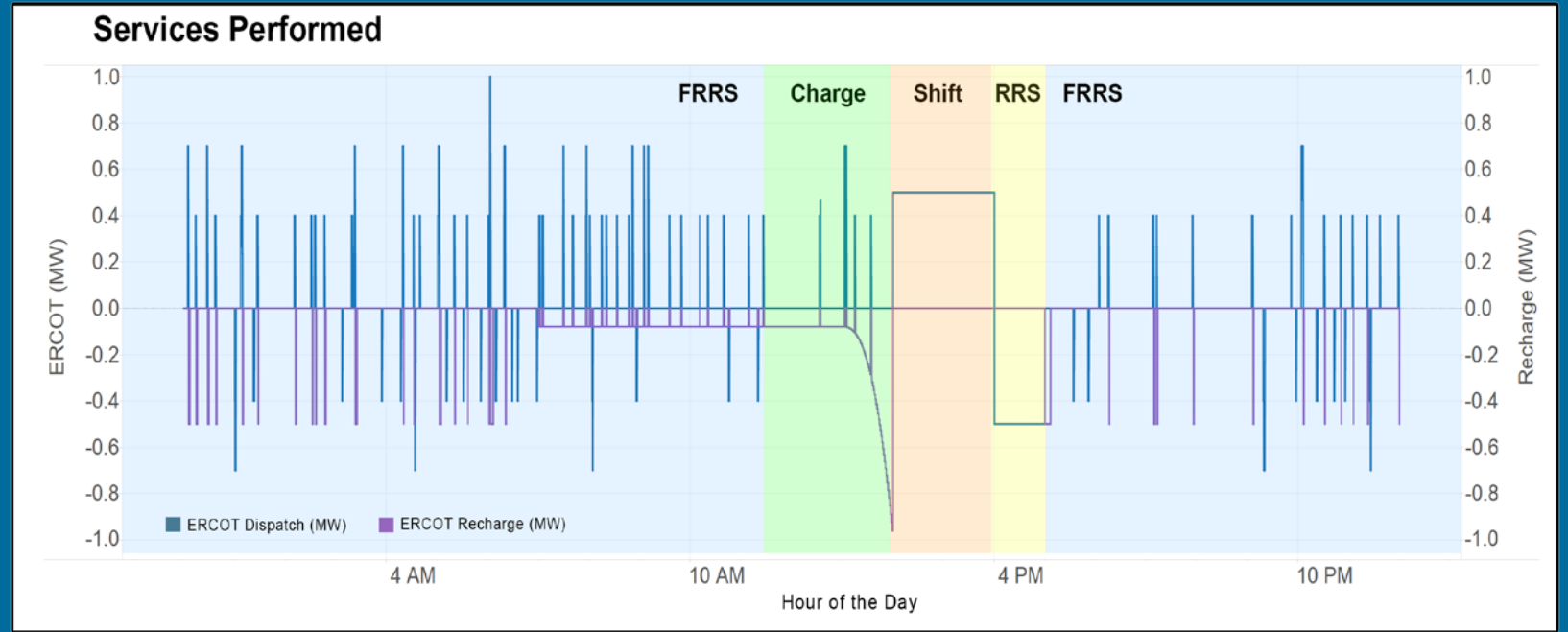
Sample Day for BESS

FRRS (Fast Responding Regulation Service) – Performed at all other hours.

Charge – BESS charges from wholesale electricity rates during off-peak. Starts two hours before the Shift.

Load Shift – Sell 2 hr of wholesale energy during peaks times.

RRS (Responsive Reserves Service) – Offset charge during near-peak (covers 50% of charging cost). Duration: 1 hr (after Shift)



Jim Spaulding | Director, Project Development Energy Services

830-868-6128 | M: 830-225-8332

James.Spaulding@peci.com

