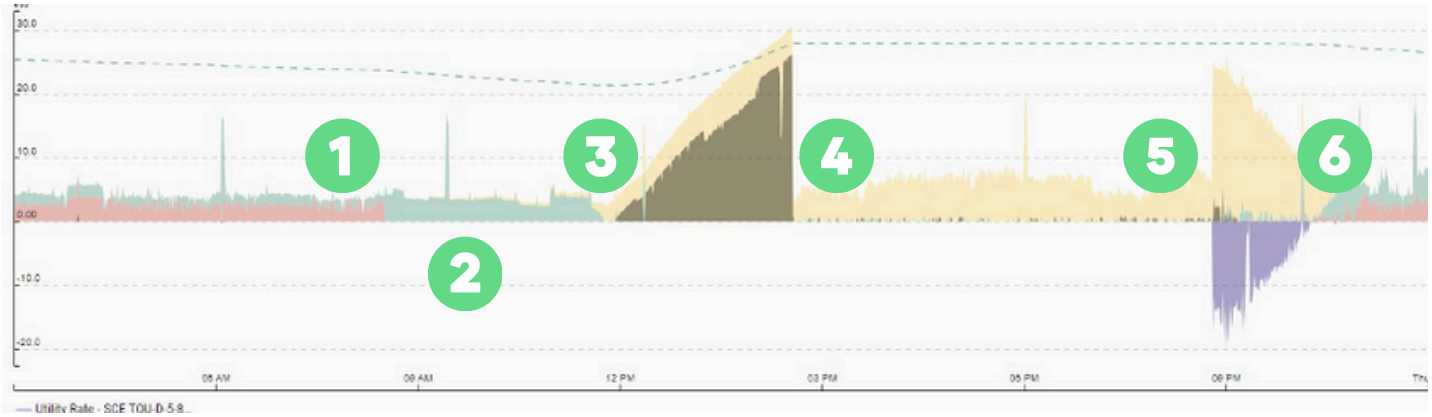
FORTRESS POWER

CASE STUDY

KEYSTONE EMS

RESILIENCY THROUGH A POWER OUTAGE

A Fortress Power eSpire system, controlled by Keystone EMS, kept the lights on during a power outage and seamlessly transitioned to selling excess power back to the grid once utility service was restored.



1. Utility power outage starts around 5am local time
2. Battery automatically discharges to cover facility load, including spikes in building loads
3. As solar PV generation grows, it covers both the building load and recharging the battery storage system
4. Once battery recharged, all building load covered by PV to preserve storage capacity
5. Utility connection restored; excess PV sold back to utility
6. Battery returns to normal services, offsetting shoulder period load and managing demand charge mitigation

***Solar PV systems automatically shut off in power outages unless connected to battery energy storage systems**

- **Purple:** Power Export to Utility
- **Yellow:** Solar PV Generation
- **Green**: Battery Discharging
- **Pink:** Utility Generation
- **Gray:** Battery Charging
- ---- **Dotted Line:** Battery State of Charge %
- — **Black Line:** Power Load

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