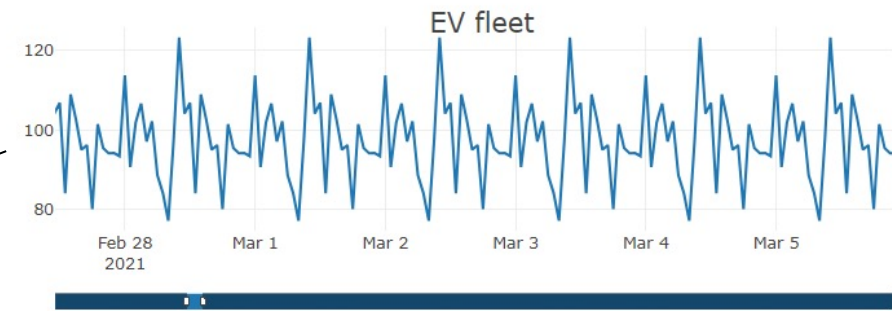


EV Battery Sizing

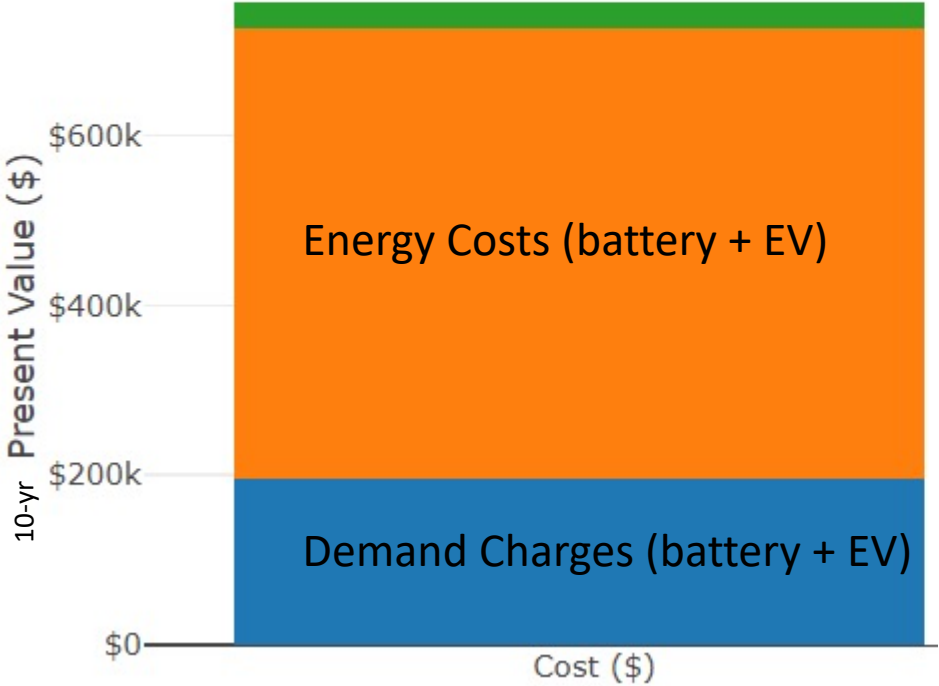


Case Introduction

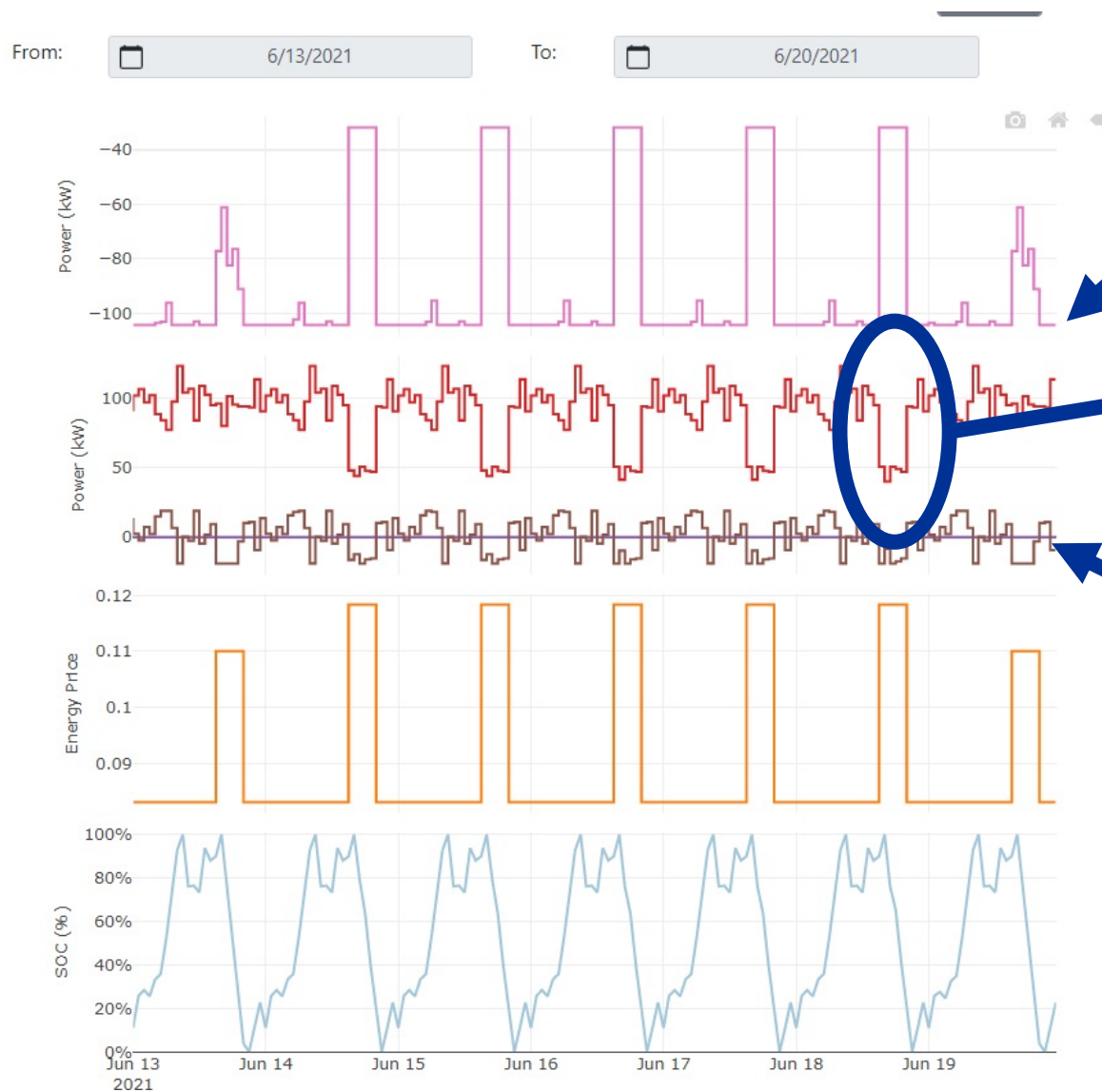
- Co-optimize
 - The size and operation of a stationary battery system
 - Fleet EV charge management
- Reduce Retail demand and energy charges
- Fleet EV charging profile repeats every day
- EV charging curtailment penalty set at \$3/kWh (cost of lost load) to prevent overcurtailment while still allowing curtailment to minimize demand charges
- EV charging can be curtailed up to 50%



Results



Results



Net load (with charge management and battery) is fairly flat except for on-peak hours

Weekday on-peak EV charging curtailment

Battery smooths EV charging power to minimize demand charges

A blue-tinted photograph of four people, two men and two women, standing in a row. They are all wearing white lab coats or work shirts with the EPRRI logo on the chest. The woman on the far right is wearing a white hard hat. They appear to be in a professional setting, possibly a laboratory or office, and are looking towards the camera with slight smiles. The background is a solid blue color.

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