



How Capacitech Enhances Batteries

Overview

Batteries are energy storage devices designed to store energy for long periods of time. However, they lack the capability to release energy at a fast rate due to their high energy density and low power density. Because of this, batteries are damaged when required to deliver energy quickly, which is common in cleantech applications, even within the battery's own power ratings. This substantially reduces their cycle life, with performance diminishing over time until an eventual replacement is required.

Today's Problem

Batteries are designed for steady state applications, which cleantech is not. In dynamic power applications, batteries have a limited operating life and are easily damaged when used at high power levels. The industry's solution is to oversize the battery bank or sacrifice one characteristic to optimize another, such as sacrificing storage capacity for higher peak power.



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Paradigm Shift: Power Storage Cables

Capacitech has created a cable that both stores and distributes power to protect and enable batteries. This allows batteries optimized for energy density to be selected in an application where there may be surges of power, which would typically damage this kind of battery.



6x

More power

50%

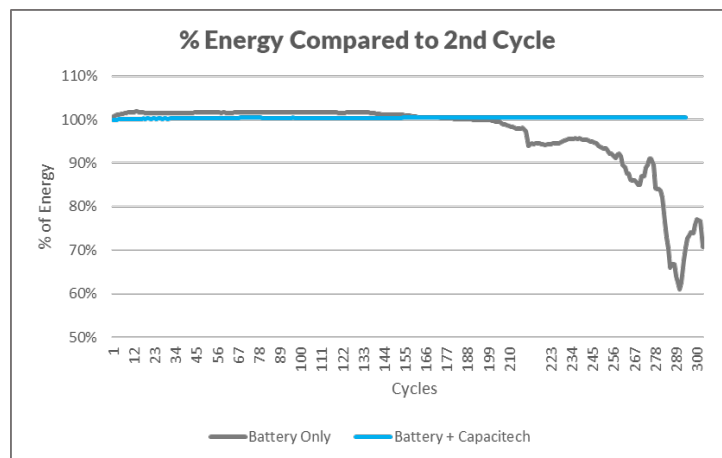
Longer battery operating life

30%

ROI by reducing OpEx of batteries

Results

Degradation of the battery subjected to surges in power began at 200 cycles. The battery paired with Capacitech's technology, although also subjected to power surges, experiences no degradation, and maintains a consistent level of energy discharged.



Capacitech's cable offers a drop-in solution that provides peak power support and protects batteries from detrimental power fluctuations. Our power storage cable enables longer battery operating life and a reduction in battery replacement costs. Contact us today to learn more!