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Title: Battery lifespan of Beirut base station energy storage

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Can Bess management extend a battery's life?

The proposed method's performance was evaluated by performing various case study to verify its adaptability in various situations; additionally, the aging cycle test shows that BESS management considering SOC/DOD conditions can extend the battery's lifetime.

Which SoC range deteriorates a battery?

As shown in Fig. 2 (b), cycling in a low SOC range (range D, ? D) causes more damage to the battery than cycling in other SOC ranges, so d has the highest weight for capacity degradation. In both high and low SOC's (? A), excessive charging can increase DOD and deteriorate the cycle life .

Why is battery energy storage important?

Battery energy storage (BESS) is needed to overcome supply and demand uncertainties in the electrical grid due to increased renewable energy resources. BESS operators using time-of-use pricing in the electrical grid need to operate the BESS effectively to maximize revenue while responding to demand fluctuations.

How to increase battery cycle life?

To increase battery cycle life, battery manufacturers recommend operating in the reliable SOC range and charging frequently as battery capacity decreases, rather than charging from a fully discharged SOC or maintaining a high SOC.

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