

# Webinar

## Battery Energy Storage Systems

1 hour, 9:30 AM - 10:30 AM (GMT+1)

Apr 16, 2020

### Free Webinar Register

The imbalance between power generation and utilization occurs frequently on many electrical networks including utility distribution, railway traction, and microgrid power systems. Instantaneous demand for electrical energy and unpredictable daily and seasonal variations of demand pose serious challenges to the power network. The condition is further exacerbated by the high penetration of intermittent renewable energy sources being utilized for reducing carbon emissions and offsetting energy supply shortage. One of the solutions to improve the reliability and performance of such systems is to integrate battery energy storage systems (BESS). Not only do they offer renewable smoothing, but in deregulated markets, these devices could also be used to increase the profit margins of renewable farm owners and even provide arbitrage.

ETAP includes detailed modeling for a lithium-ion technology-based battery energy storage device with a user-configurable battery management system. Battery models generated based on manufacturer information or advanced parameter estimation techniques can be used to simulate the charging and discharging behavior of the BESS. Optimized battery management systems (BMS) settings can be developed and tested in correlation with the battery's state of charge (SOC).

In this part of the webinar series previewing ETAP 20.0, we will present the data requirements, battery parameter estimation and simulation of BESS in applications including mission-critical facilities, data centers, distribution, microgrid, and railway power systems.

The webinar broadcast starts at 9:30 AM, Greenwich Mean Time (GMT) +1

The link to access the webinar will be sent 24 hours and 1 hour prior to the start of the broadcast to all registrants.

We also offer a broadcast on April 15, 9:00 AM (PDT) (Los Angeles) –

Website link:- <https://etap.com/singleevent/2020/04/16/webinar/batter-energy-storage-041620>