[Optimal Bidding Strategy of Battery Storage in Power Markets Considering Performance-Based Regulation(incentivize performance) and Battery Cycle Life](https://ieeexplore.ieee.org/document/7106509)

A close-up of a paper

Description automatically generated

\*\*\* Accounts battery life into battery’s optimal bidding model.

Market assumptions: (1) Storage is price taker (2) Participate in three day-ahead markets (3) max profit given constraints

PBR receives payments based on regulation market capability clearing price and market performance clearing price

Battery service life (T\_sevice) is determined by T\_cycle, in paper detailed.

Objective

(Detailed constraint in paper)

Data: Historical data from ERCOT(spinning reserve and day-head price) PJM (regulation market day)

ISSUE: O**ne remaining issue for future research is how to decide a battery storage’s bidding strategy when it is no longer a price-taker in the regulation market.**