Profit model of peak-valley arbitrage of energy storage power station

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What is Peak-Valley arbitrage?
The peak-valley arbitrage is the main profit mode of distributed energy storage system at the user side(Zhao et al.,2022). The peak-valley price ratio adopted in domestic and foreign time-of-use electricity price is mostly 3-6 times,and even reach 8-10 times in emergency cases.

How does reserve capacity affect peak-valley arbitrage income?
However,when the proportion of reserve capacity continues to increase,the increase of reactive power compensation income is not obvious and the active output of converter is limited,which reduces the incomeof peak-valley arbitrage and thus the overall income is decreased.

How does Bess generate revenue from electricity price arbitrage and reserve service?
It generates revenue though electricity price arbitrage and reserve service. The BESS's optimization model and the charging-discharging operation control strategyare established to make maximum revenue. The simulation study is based on one-year data of wind speed,irradiance,and electricity price in Hangzhou City (Zhejiang Province,China).

What is a Bess optimization model for electricity price arbitrage and reserve ancillary services?
Taking the maximum annual net revenues of the BESS as the optimization objective, an optimization model of the BESS considering both electricity price arbitrage and reserve ancillary services is established. The annual net revenues of the BESS under different BESS capacities are evaluated.

Therefore, this article analyzes three common profit models that are identified when EES participates in peak-valley arbitrage, peak-shaving, and demand response.

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