

# Energy storage container charging and discharging rate



## Overview

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The charging and discharging speed of a BESS is denoted by its C-rate, which relates the current to the battery's capacity. The C-rate is a critical factor influencing how quickly a battery can be charged or discharged without compromising its performance or lifespan.

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However, charging and discharging at maximum power can reduce the battery's service life. Choosing a below-maximum C-rate can protect the battery cells.



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Although both refer to the charge and discharge rate of energy storage systems, their actual meanings and application focuses differ. This

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Capacity Augmentation in BESS projects is defined as when additional BESS capacity is added to an existing project to increase the overall BESS capacity and reduce the depth-of-discharge of the

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It contributes to the system level cycle life because a system is not constantly charging or discharging at a given time like in the case of cycle life



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### Battery Energy Storage System Evaluation Method

The proposed method is based on actual battery charge and discharge metered data to be collected from BESS systems provided by federal agencies participating in the FEMP's performance

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