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[Back to Applications home page](#)

By Sifat Amin and Mehrdad Boloorch

Battery energy storage systems (BESS) are emerging in all areas of electricity sectors including generation services, ancillary services, transmission services, distribution services, and consumers' energy management services.

Applications of the BESS in the electricity sector are divided into three categories: front-the-meter (FTM), behind-the-meter (BTM), and off-grid, which for long-term operation have to be supported by an off-grid generator.

FTM BESS are those that are integrated into a generation facility, distribution network, or a transmission system for the applications that are summarized in Table 1.

BTM BESS are connected behind the utility service meter of the commercial, industrial, or residential consumers and their primary objective is consumer energy management and electricity bill savings. The BTM BESS acts as a load during the batteries charging periods and act as a generator during the batteries discharging periods.

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