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Available cost data and projections for distributed battery storage are very limited. Therefore, the battery cost and performance projections in the 2023 ATB are based on the same literature review as that done for the utility-scale and residential battery cost projections: battery cost and performance projections in the 2023 ATB are based on a literature review of 14 sources published in 2021 or 2022, as described by Cole and Karmakar (Cole and Karmakar, 2023). Three projections for 2022 to 2050 are developed for scenario modeling based on this literature.

Scenario assumptions for commercial and industrial BESS were derived using a literature review, and are not based on learning curves or deployment projections.

For a 600kW 4-hour battery, the technology-innovation scenarios for commercial-scale BESS described above result in CAPEX reductions of 17% (Conservative Scenario), 36% (Moderate Scenario), and 52% (Advanced Scenario) between 2022 and 2035. The average annual reduction rates are 1.4% (Conservative Scenario), 2.8% (Moderate Scenario), and 4.0% (Advanced Scenario).

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