

Introduction to batteries in the power grid

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Power grids are evolving, and more intermittent and decentralized renewable energy sources are continuously being integrated. At the same time there is an increased demand for electricity due to societies' electrification of transportation, heating, and industry. These factors place stress on an often-aging power infrastructure and increase the needs for flexible, stable, and reliable grid solutions. In this landscape, battery energy storage systems (BESS) are becoming essential. More than just backup, batteries are active, intelligent grid assets to ensure grid stability, reliability, and flexibility. BESS can balance the supply and demand while also supporting the energy transition.

Here we will study the fundamentals required to investigate how batteries interact with the grid. This course assumes active, self-driven investigations and aims to offer you a flexible pathway to build knowledge and insight. By the end of this course, you'll have trained in skills needed to reason through decisions involving BESS providing services in the power grid.

Enroll

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