

380 kWh energy storage software

The storage technologies covered in this primer range from well-established and commercialized technologies such as pumped storage hydropower (PSH) and lithium-ion battery energy storage to more novel technologies under research and development (R& D). These technologies vary considerably in their operational characteristics and technology maturity, which will have an important impact on the roles they play in the grid. Figure 1 provides an overview of energy storage technologies and the services they can provide to the power system.

Several key operational characteristics and additional terms for understanding energy storage technologies and their role on the power system are defined in the Glossary. Table 1 provides several high-level comparisons between these technologies. Many of these characteristics are expected to change as R& D for the technologies progress. Some technology categories, such as lithium-ion or lead-acid batteries, comprise multiple subtypes that each feature unique operational characteristics; comparisons of subtypes within technologies are considered in their respective sections.

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