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What is short-duration energy storage (SDEs)?
Short-duration energy storage (SDES) assets are intended to provide energy for a few milliseconds up to four hours. An example of a technology that can only provide very short-duration energy are capacitors,which are used in electronics and power systems to quickly store and release electrical energy.

What is the future of energy storage?
Short-,medium-,and long-duration energy storage are all important in balancing low and high demand energy periods,the use of renewable energy sources,and grid resiliency. Continued innovationis key to the future of energy storage.

What is the difference between short- and long-duration energy storage?
Complementarity of short- and long-duration energy storage: Given that short- and long-duration storage differ in terms of cost structure,storage capacity,and response time,the choice of suitable storage types should be tailored to certain applications.

What are some examples of high power storage technologies?
Flywheels are an example of a storage mechanism that store kinetic energy in a rotating mass and instantly provide power bursts. Sodium-ion and nickel-zinc batteriesare also technologies proven to provide short-duration,high-power storage,particularly for UPS applications.

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