

Technology	Current Cost (\$/kWh)	10-yr Projected Cost (\$/kWh)	Development Status	Optimal Discharge Duration	Cycle-life
Flooded Lead-acid Batteries	\$150	\$150	Mature	1 – 2 Hours	Short
Valve-regulated Lead-acid Batteries	\$200	\$200	Mature	1 – 2 Hours	Short
Low-speed Flywheel	\$380	\$300	Mature	Seconds – 30 Minutes	Long
Na-S Batteries	\$450	\$350	Mature	3 – 7 Hours	Long
Zn-Br Batteries	\$500	\$250/kWh; plus \$300/kW	Mature	3 – 7 Hours	Long
Asymmetric Lead-carbon (PbC)	\$500	<\$250	R&D (1)	15 Minutes – 2 Hours	Long
Ni-Cd Batteries	\$600	\$600	R&D (2)	30 Minutes – 2 Hours	Medium
Zebra Na-NiCl Batteries	\$800	\$150	R&D (2)	30 Minutes – 2 Hours	Medium
Ni-MH Batteries	\$800	\$350	R&D (2)	30 Minutes – 2 Hours	Medium
Li-ion Batteries	\$1,333	\$780	R&D (2)	15 Minutes – 2 Hours	Long
High-speed Flywheel	\$1,000	\$800	R&D (1)	Seconds – 15 Minutes	Long

(1) PbC batteries and high-speed flywheels are R&D stage technologies for all applications.

(2) These batteries are mature for small format applications and R&D stage technologies for large format applications.