Lithium ion battery 430 kWh

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Research by the Department of Energy"s (DOE) Vehicle Technologies Office estimates the cost of an electric vehicle lithium-ion battery pack declined 87% between 2008 and 2021 (using 2021 constant dollars). The 2021 estimate is $157/kWh on a usable-energy basis (the equivalent of $143/kWh on a rated-energy basis) for production at scale, i.e.,100,000 units per year. That compares to $1,237/kWh on a usable-energy basis in 2008. The decline in cost is a combination of improvements in battery technologies and chemistries, and an increase in manufacturing volume.

2017 - Steven Boyd, DOE, Vehicle Technologies Office, 2017 Annual Merit Review, Batteries and Electrification R& D Overview, June 18, 2018, PowerPoint presentation, p. 7.

2016 - David Howell, DOE, Vehicle Technologies Office, 2017 Annual Merit Review, Electrochemical Energy Storage R& D Overview, June 20, 2017, PowerPoint presentation, p. 6.

2008-2015 - National Academies of Sciences, Engineering, and Medicine 2017. Review of the Research Program of the U.S. DRIVE Partnership: Fifth Report. Washington, DC: The National Academies Press, p. 173.

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