Grid-level energy storage 390 kWh

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K.W. and K.J. contributed equally to this work. K.W. and K.J. conducted equilibrium voltage measurements. K.W., K.J., T.O., D.J.B. and U.M. performed small-scale cell testing. B.C. and P.J.B. performed cell testing at engineering scale. D.R.S., D.A.B. and H.K. had the idea for the project. K.W., K.J., B.C., T.O. and D.R.S. drafted the manuscript.

D.J.B. and D.R.S. are co-founders of Ambri, a company established to commercialize the liquid metal battery. D.J.B. is now Chief Technology Officer at Ambri. His contributions to this article were made while he was still a student at MIT pursuing his PhD and subsequently a postdoctoral associate for a short period of time. D.R.S."s role with the company is advisory; he is formally the Chief Scientific Advisor and is a member of the Board of Directors.

The negative current collector consists of a stainless steel rod and Fe-Ni foam. The positive current collector is made of graphite (small cell; 3.16 cm2 active area) or 304 stainless steel (large cell; 62 cm2 active area). Current collectors are electrically isolated by means of an alumina insulator.

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