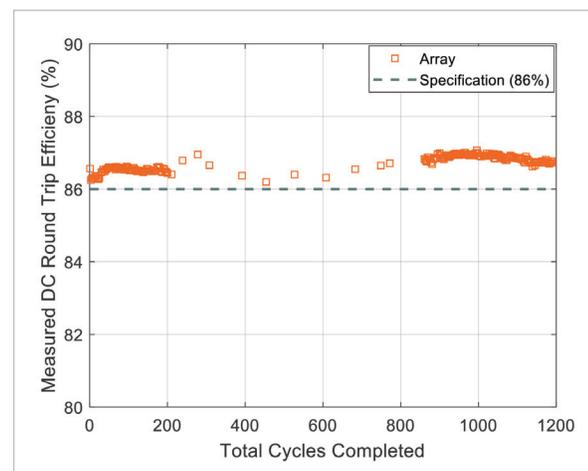




The Industry's *Only* Ruggedized Energy Storage Solution

The energy storage industry has seen incredible growth and global expansion to mitigate issues created by intermittent power resources as well as increase grid stability and reliability. While there have been great strides in improving energy storage technology, many technologies unfortunately fall short when challenged with remote, rugged environments. For instance, battery-based energy storage solutions do not perform well in extreme temperatures and require regular operation and maintenance (O&M). In addition, all battery-based energy storage technologies degrade over time—requiring field service, which can be a challenge when the system is in a remote area.

Amber Kinetics was selected by Yungao Renewables to install its industry-leading long-duration flywheel energy storage solution in Dazi, Lhasa, Tibet, China. This site operates alongside a 60 megawatt (MW) solar installation at 4100 meters in altitude and is known as the Roof of the World. Amber Kinetics' highly ruggedized flywheel technology made it the ideal solution to address the challenges surrounding the high altitude and harsh environment. Successfully commissioned in July 2018, this installation provides energy firming, curtailment capture and power smoothing/ramp rate control seamlessly.



Round Trip Efficiency (RTE) is over 86%—demonstrating excellent site performance

“You can’t find a more environmentally friendly energy storage solution than this.”

Unsurpassed Performance

Availability



96.7%

Run Time

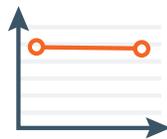


22,050
Total Spin Hours

MWh Discharged



75.6 = 24,948
Houses Powered for 1 Hour



Virtually **no degradation**
allows for **unlimited daily cycling**



Low O&M cost drives
excellent financial performance

About Amber Kinetics

Amber Kinetics is the industry-leader in manufacturing grid-scale kinetic energy storage systems (KESS). As the only provider of long-duration flywheel energy storage, Amber Kinetics extends the duration and efficiency of flywheels from minutes to hours—resulting in safe, economical and reliable energy storage.



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