

I&R - The Global Compressed Air Energy Storage Market Report 2018

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Abstracts

The rapidly increasing penetration of intermittent renewable energy on grids worldwide and volatility of load profiles are encouraging demand for long duration energy storage. Aside from pumped hydro, compressed air energy storage (CAES) is the only commercial long duration storage technology to have been deployed at utility scale. As a result, demand for traditional underground CAES that can be deployed at bulk scale, which has been dormant since 1991, will pick up meaningfully over the next few years.

The unique siting requirements of traditional underground CAES, however, present substantial development risk and limit the technology's outlook. Higher efficiency, next-generation CAES technologies that are not limited by geological considerations are on the cusp of commercialization, and are well positioned to address the gap in availability of long duration energy storage technology that can be sited where needed.

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U.S. Department of Energy

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Bright Energy Storage Technologies
Gaelectric
Pacific Gas and Electric Company
Significant Component Providers
AES Energy Storage LLC
ALMiG Kompressoren GmbH
Alstom Power
Ambri Inc
Ansaldo Energia
American Precision Industries (API)
Atlas Copco Gas & Process GMBH
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Brayton Energy, LLC
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