We support projects from conceptual design through commercial operation and beyond.

Improving the utilization of renewable energy resources by absorbing energy that might otherwise be curtailed, our solution supports grid capacity utilization, balancing and reserve services with lower fuel usage and carbon footprint than other controllable resources.

Our CAES solution includes all the associated above ground systems, plant engineering, procurement, construction, installation, start-up services and long term service support.

Benefits

- 30+ year plant life, long duration storage
- Energy and ancillary services with low fuel consumption
- Excellent load-following capacity and exceptional part-load efficiency
- High ramp rates and fast start-up
- Flexible cycling options with independent operation of compression and expansion
- Lower emissions per delivered MWh
- Significant plant scope available from single source

Wide operating range with a relatively flat heat rate

![Graph showing heat rate versus power output](image-url)
Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

CAES Solutions Cycle Schematic – Simultaneous Operating Modes

- Industry proven turbines (SST-800 & SGT-800)
- 160MW maximum generation output
- 16MW minimum generation output
- 20% ramp rate per minute
- Full generation in 10 minutes
- 90% effective dual re-heat recuperator
- Up to 60% H₂ co-firing; path to 100%

- Industry proven compression, gearing and motor
- Up to 125MW
- 30% turndown
- 30% ramp rate per minute
- 4 minutes from offline to full load