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 over power output](image)

**Compressed Air Energy Storage Solutions**

Comprehensive, proven, grid-scale energy storage
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 50% 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