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
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 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

Flow: 320 lb/s (145 kg/s)
Pressure: 2055 psi (140 bar)
Temperature: 1000 °F (540 °C)

Flow: 320 lb/s (145 kg/s)
Pressure: 690 psi (48 bar)
Temperature: 984 °F (530 °C)

Flow: 320 lb/s (145 kg/s)
Pressure: 345 psi (24 bar)
Temperature: 768 °F (410 °C)