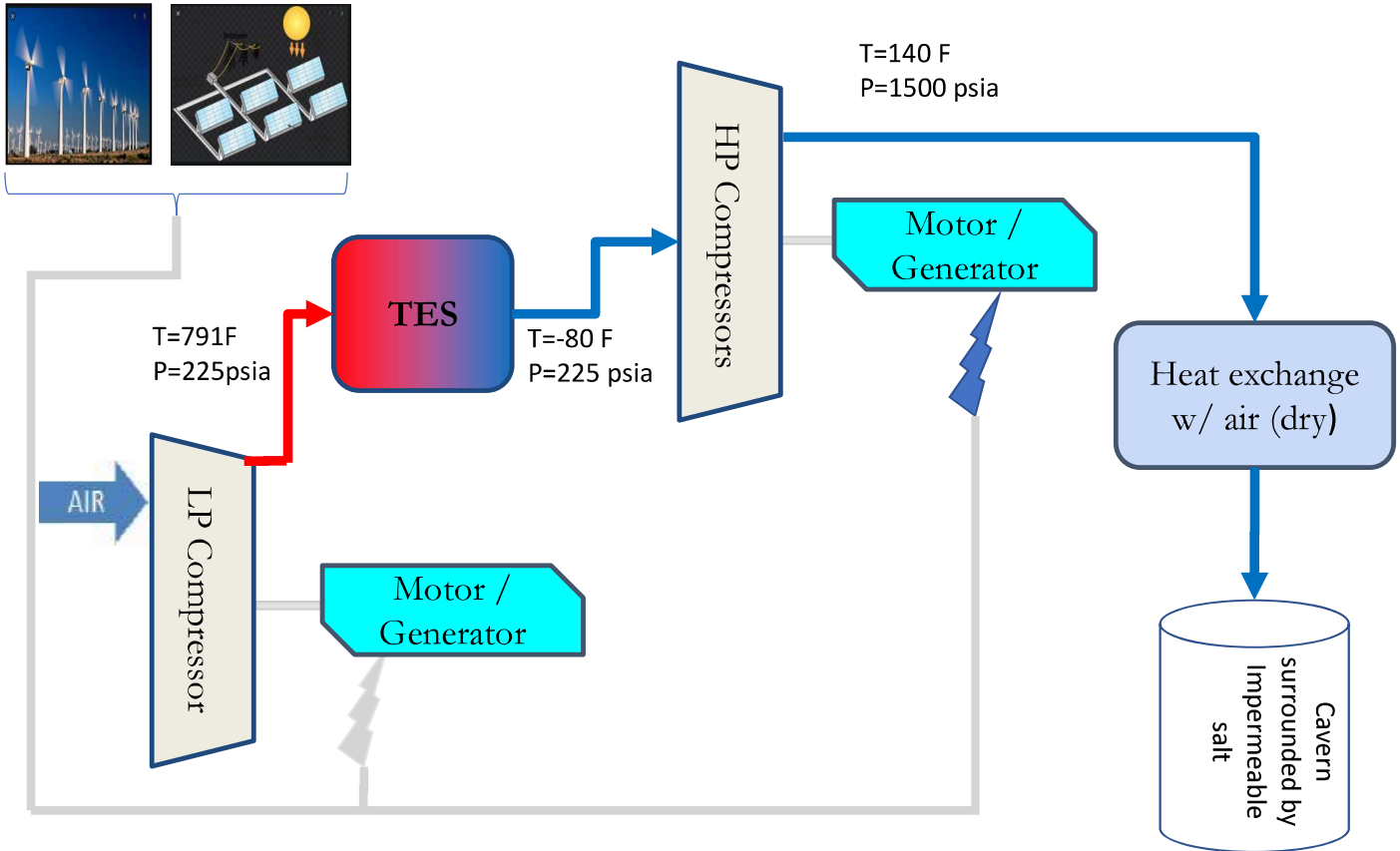


G-CAES Charge Mode Process

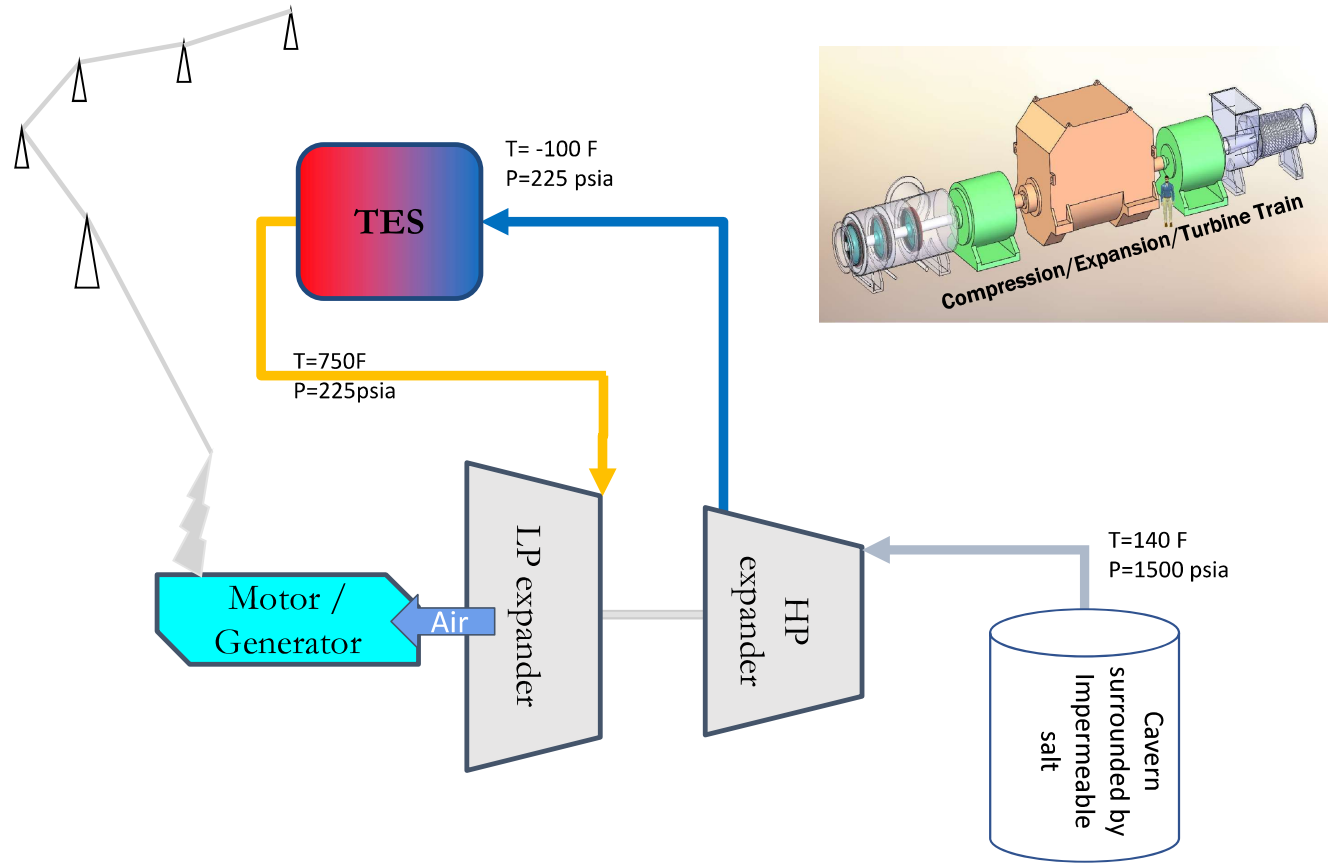


Wind capacity factor – 35 % CF
= 8.4 hrs/day

Solar capacity factor – 19% CF
= 4.4 hrs/day



G-CAES Discharge Mode Process



Advanced Concrete Thermal Energy Storage



Thermal storage supports 2.5 MWe / 10 MWhe of steam energy converted back to electricity

- 60 blocks (19 tonnes), each with 20 stainless steel steam tubes (3/8" x 100m long (coiled))

Equivalent energy storage for aCAES system 40 MWhe (10 MW, 4 hours)

\$5M DOE grant; EPRI as prime contractor, w/ Southern Co. & AECOM

- Installation in early 2021

