



EIC. Solutions.

Isothermal Compressed Air Energy Storage

LDES Consortium Overview

Salt Lake City Utah

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CAES is not new

D-CAES

A-CAES

McIntosh
26 Hours
110MW



Huntorf
4 Hours
330MW



HydroStor
Willow Rock
8 Hours
500MW



Energy Dome
Ottawa
10 Hour
20MW



China
5 Plants
~5 Hours
760 MW



1978

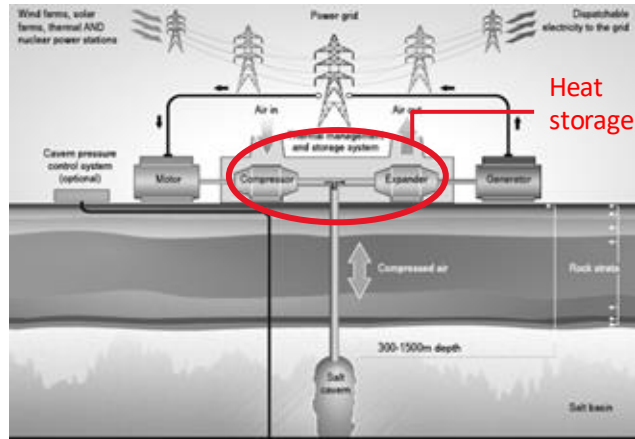
1991

2022 - 2026

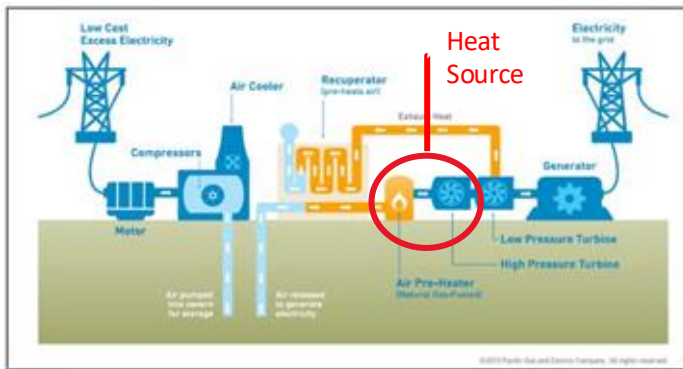


Real-Time Heat Transfer to and From Atmosphere

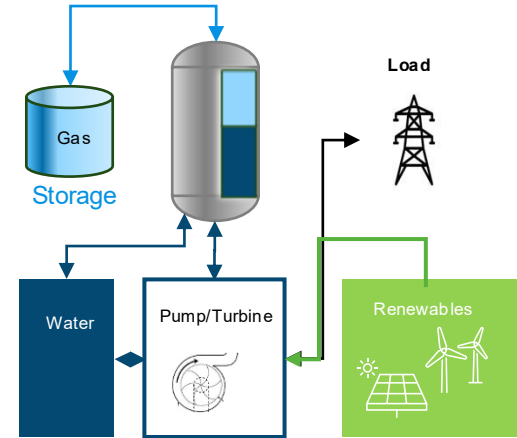
Adiabatic



Diabatic



EIC Isothermal Liquid Piston



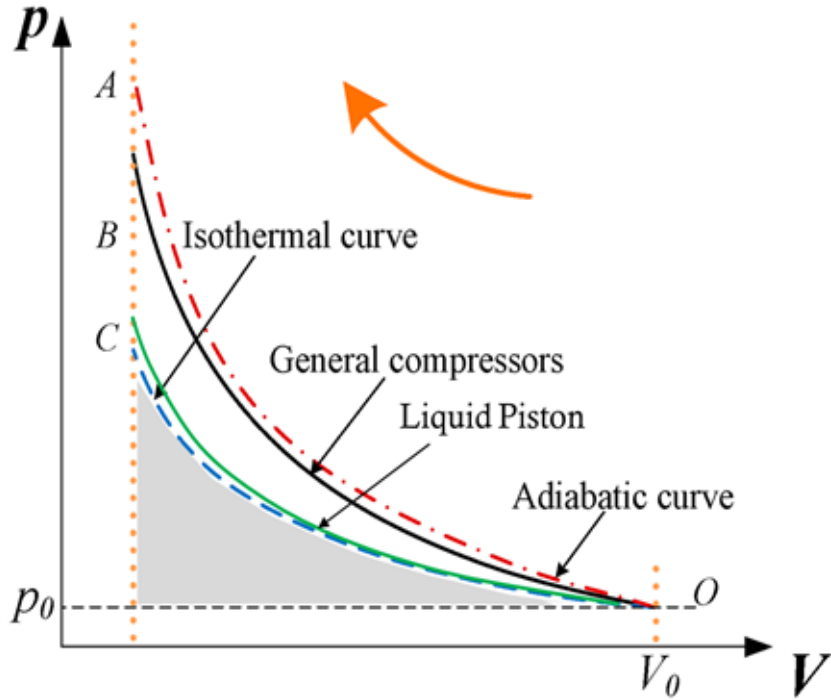
Modular and Scalable

Most efficient conversion of shaft energy to pressure

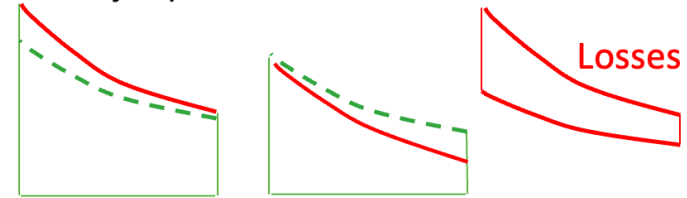
Insensitive to duration of storage



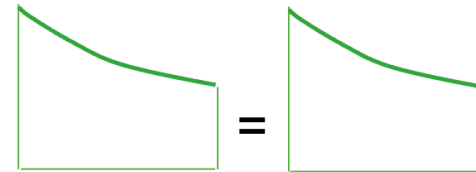
Isothermal is Most Practically Efficient Process



Polytropic: Work in > work out



Isothermal: Work in = work out

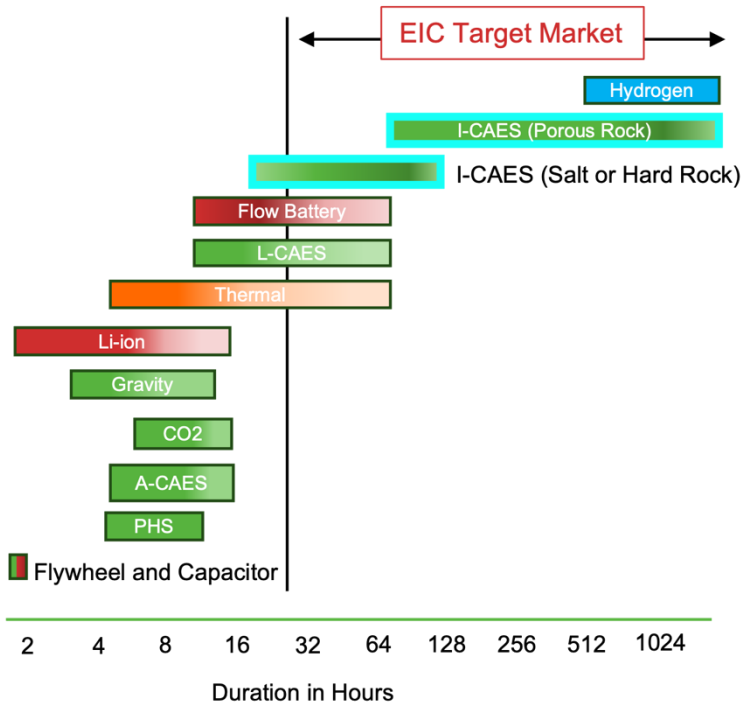


20-30% Reduction in Compression Energy over Conventional



Comparative Metrics

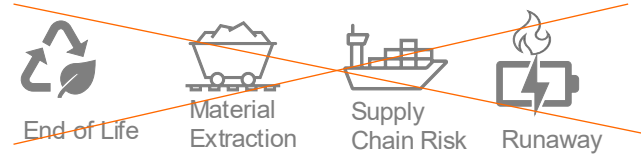
Target Market 30+ Hours Duration



Legend
(Shading reflects practical vs. claimed range)



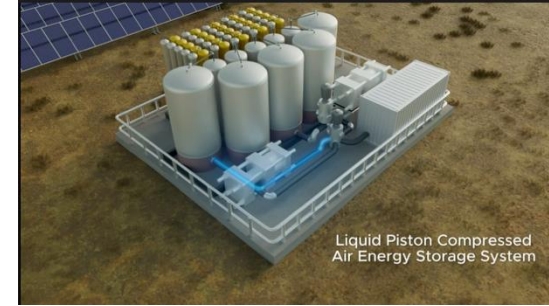
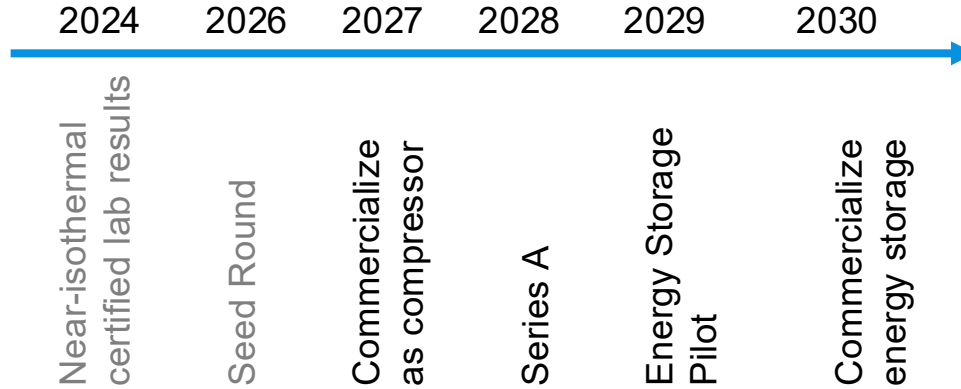
Metric	I-CAES	A-CAES	Li-Ion
Duration	Weeks	10 hours	4 hours
RTE	68%	70%	90%
Degradation	Minimal	Minimal	2%/yr
Discharge	Low*	Low*	High
Life	30+ yrs	30+ yrs	15 yrs
Env. Impact	Low	Low	High



I-CAES Capex per \$/KWh: \$25-200
LCOE 'adder' \$/KWh: \$.045-.11



Development Status and Roadmap



Challenges:

- FOAK funding
- Economies of Scale transition
- Subsurface Technology
- Intra-day Focus

Asks:

- Public-Private Demo Funding
- Seed Round investors (\$.5-\$1M)
- Manufacturing Partners/Innovation
- Compressor applications
- Demonstration sites
- Strategic Partners
- O&G or Geology Expertise
- Multi-Day LDES Policy/Awareness



Thank You

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