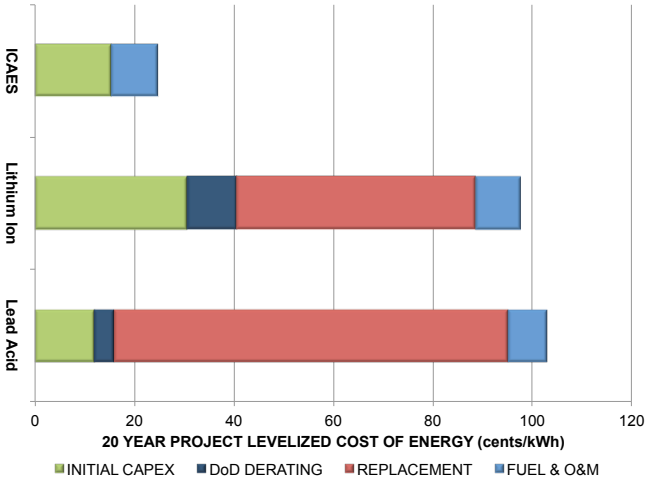
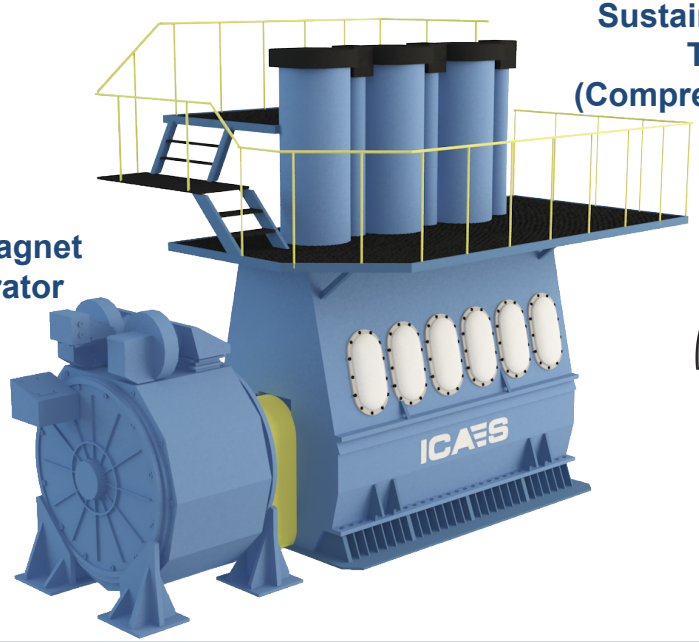
Isothermal CAES for Grid-Scale Applications

Key advantages

- **Clean:** isothermal process consumes no fuel, produces no emissions
- **Flexible:** can be sited where best utilized, not where geology mandates
- **Proven components**
  - Crankshaft, generator, pipe-type storage
  - 20-year life at full power/capacity
- **Scalable:** power and energy scale independently
- **Safe:** no hazardous materials or chemicals

Long Cycle Life and Low Capital Cost Give ICAES a Dramatic LCOE Advantage





SustainX Heat Transfer Technology (Compression/Expansion)

Permanent Magnet Motor/Generator

Crankshaft

*Proven mechanical systems using **steel, water, and air***

SustainX
SMARTER ENERGY STORAGE

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