




HYDROSTOR

Experienced Management Team

Combining extensive energy and utilities knowledge with previous experience in consulting, private equity, mining, infrastructure, financing and government




 **Jordan Cole**
Chief Commercial Officer

 **Jon Norman**
President

 **Curtis VanWalleghem**
Chief Executive Officer,
Co-Founder

 **Sid Meloney**
EVP Engineering &
Projects

 **Cam Lewis**
Chief Technology Officer,
Co-Founder

 **Guy Bentinck**
Chief Financial Officer

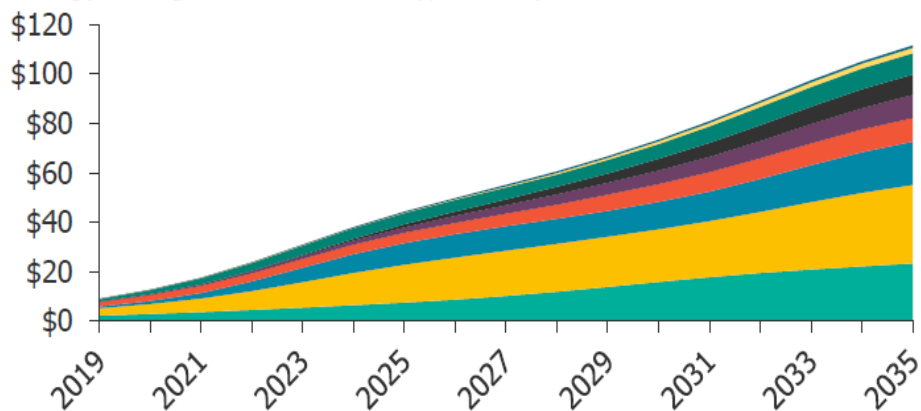
The Energy Transition is Accelerating

The need for day-long storage is increasing rapidly, driven by global renewable growth and retirements of conventional generation

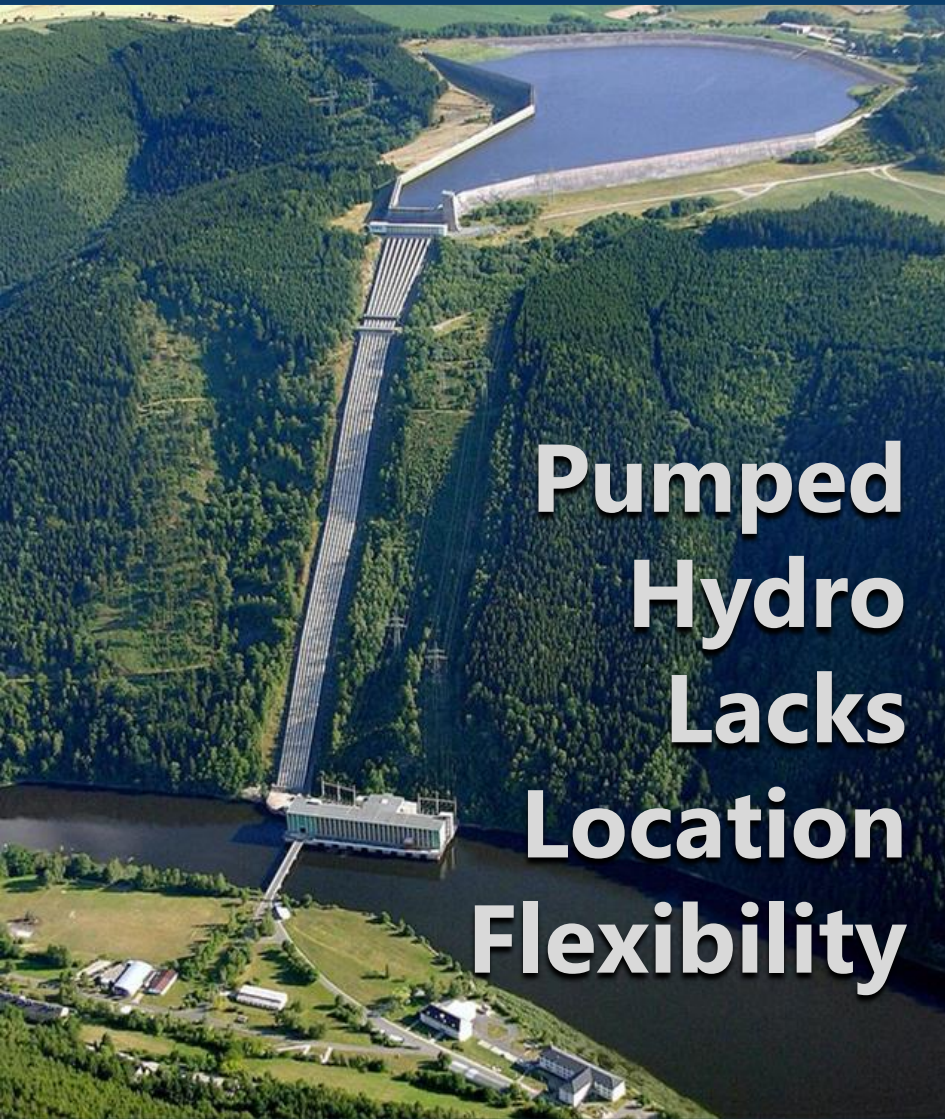
Hydrostor offers the lowest cost, long duration energy storage technology deliverable to the grid today

Global stationary storage market forecasts

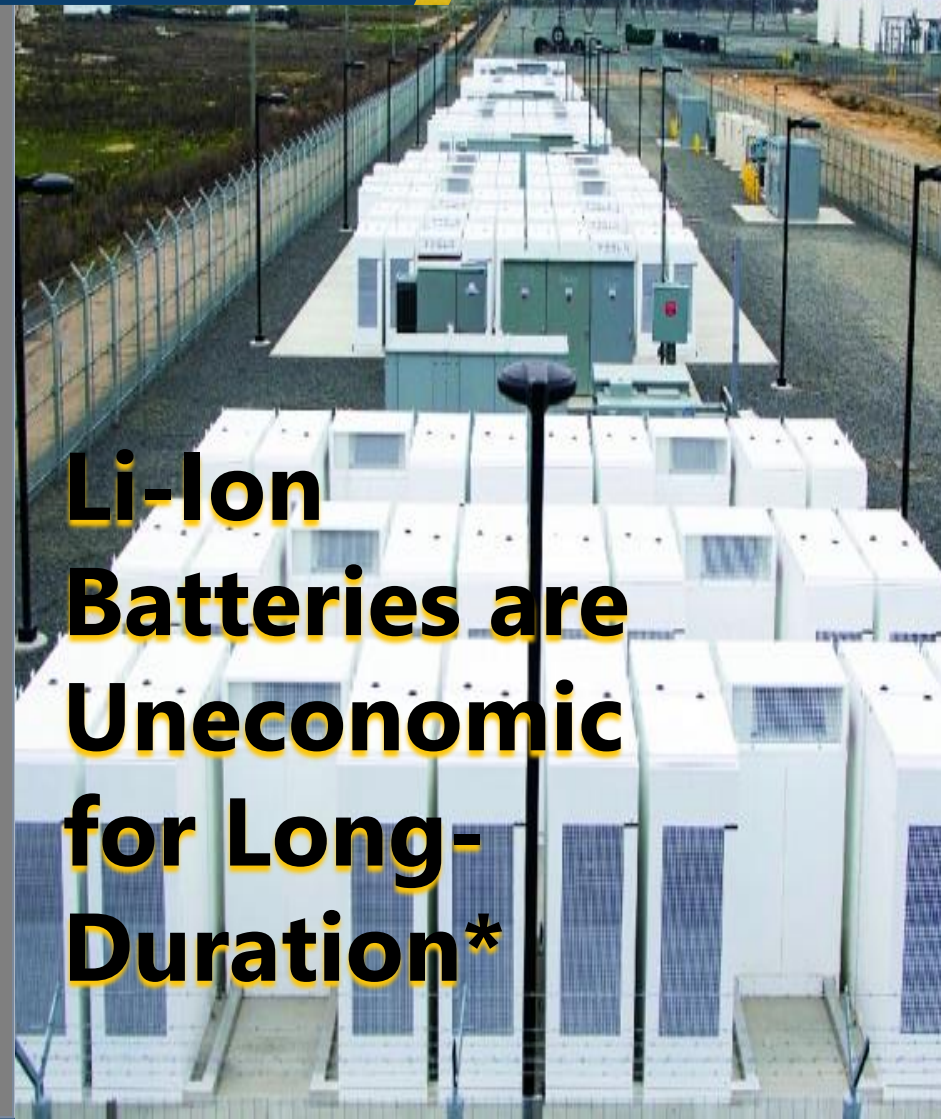
Energy storage annual revenue (\$ billions)



Available Storage Technologies are Insufficient

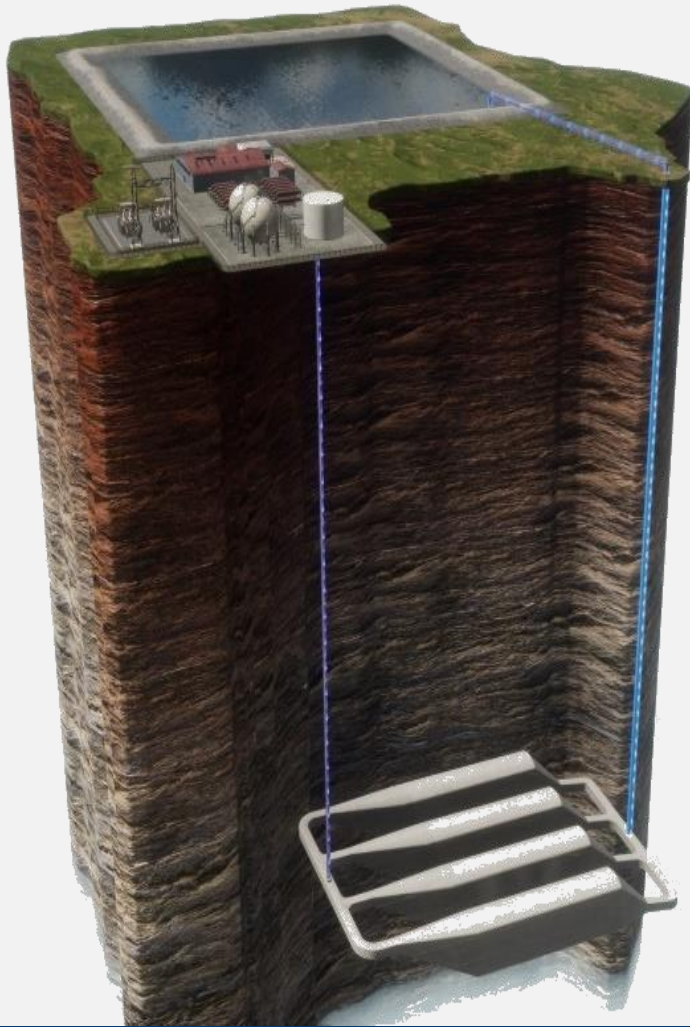


**Pumped
Hydro
Lacks
Location
Flexibility**



**Li-Ion
Batteries are
Uneconomic
for Long-
Duration***

A-CAES Offers a Breakthrough Solution



Advanced-CAES improves on the mature Compressed Air Energy Storage (CAES) technology by eliminating emissions, increasing efficiency & providing location flexibility

A-CAES uses only water, pressurized air and standard equipment with proven construction techniques

Offers the equivalent low-cost, long-duration, and long-life as pumped hydro storage, but with the key advantage of being able to flexibly locate where the grid needs it



Lowest Cost



Patented Process



Flexible Siting



Successful Projects



Emission Free



Proven

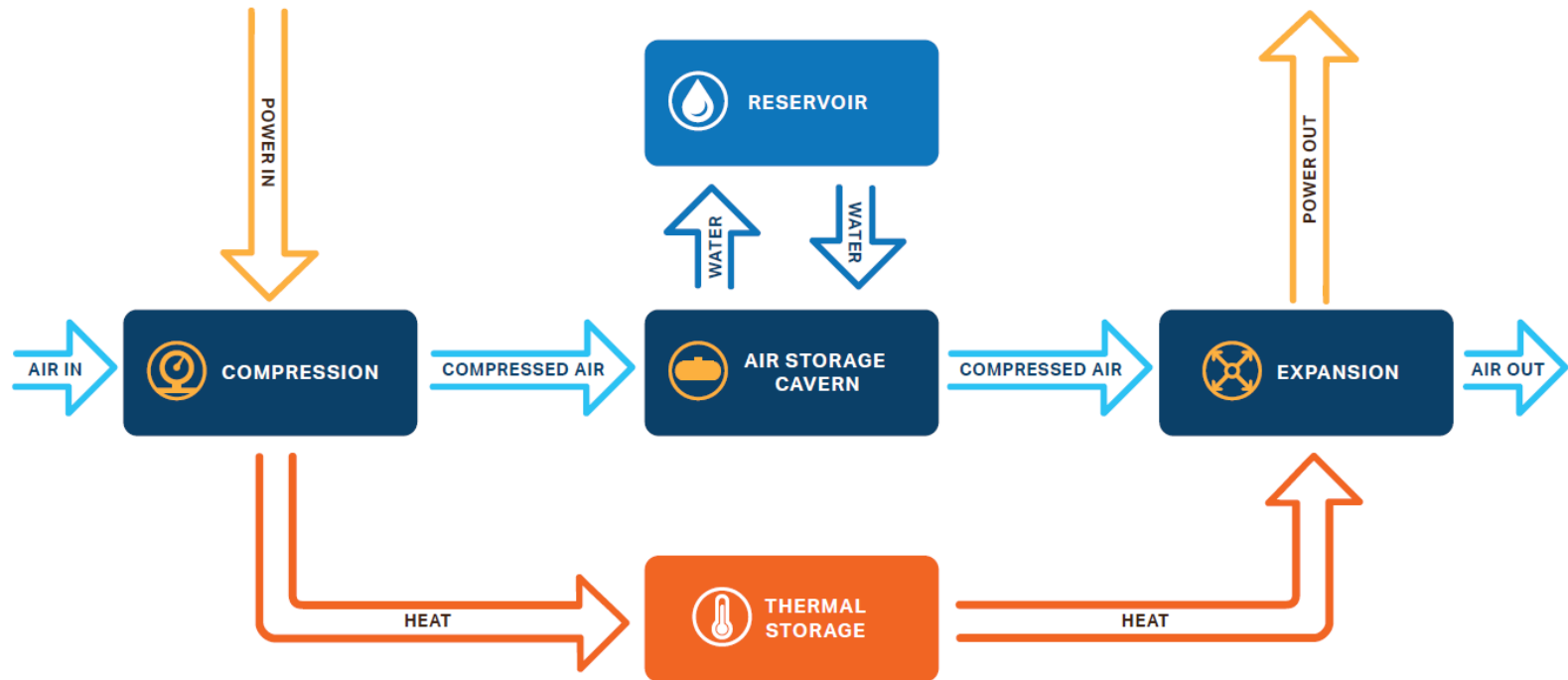


Scalable Design



Bankable

Advanced-CAES Process Overview



1
An electrical air compressor is operated to convert ambient air into hot, pressurized air

2
The heat is then stripped out of the airstream and stored in a hot thermal store

3
The cold, pressurized air is stored in an isobaric (i.e. constant pressure) hard rock air cavity that is hydrostatically-compensated with the displaced water moved to a surface reservoir

4
On discharge, the reservoir water backfills into the cavern and the pressurized air re-collects the heat and drives an air turbine producing electricity before the air is returned to the environment

Attractive & Plentiful Project Applications



Fossil Fuel Plant Replacement

- Synchronous dispatchable power generation
- Alternative to new natural gas plant
- Ability to locate at sites of decommissioning coal

- Provide dispatchable or baseload renewables
- Optimize solar/wind project economics
- Alleviate curtailment and enable more renewables
- Synchronous generation for voltage support

Renewable Energy Integration



Transmission Deferral

- Non-wires alternative to new grid investments
- Long duration storage alleviates grid congestion
- Generate market revenues at non-peak times



Advanced & Rapidly Growing Project Pipeline

3MW, 10MWh Completed Small-Scale Facilities

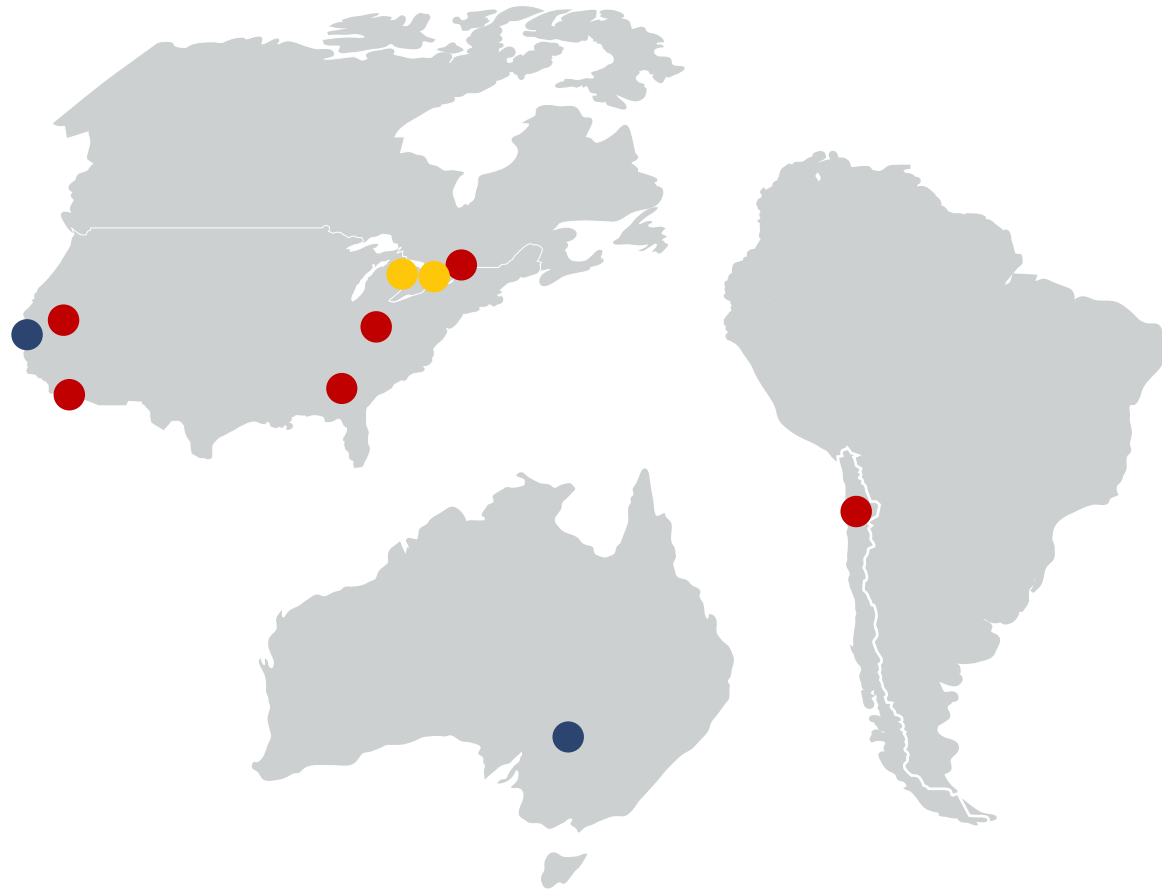
Toronto (2015), Goderich (2019)

700MW, +5.6GWh Advanced Stage Development Projects

Rosamond/Gem (USA), Broken Hill (Australia)

+1.5GW, +12GWh Direct Sale & Earlier Stage Development Projects

Pecho (USA), Ontario (Canada), Tarapacá (Chile),
Several major utilities (USA)



Projects Being Added & Advanced Regularly



HYDROSTOR

Enabling the Energy Transition

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