EIC. Solutions.

Solutions for Energy Availability – AI and Beyond

Liquid Piston technology applied to ensuring energy availability

Investor Deck

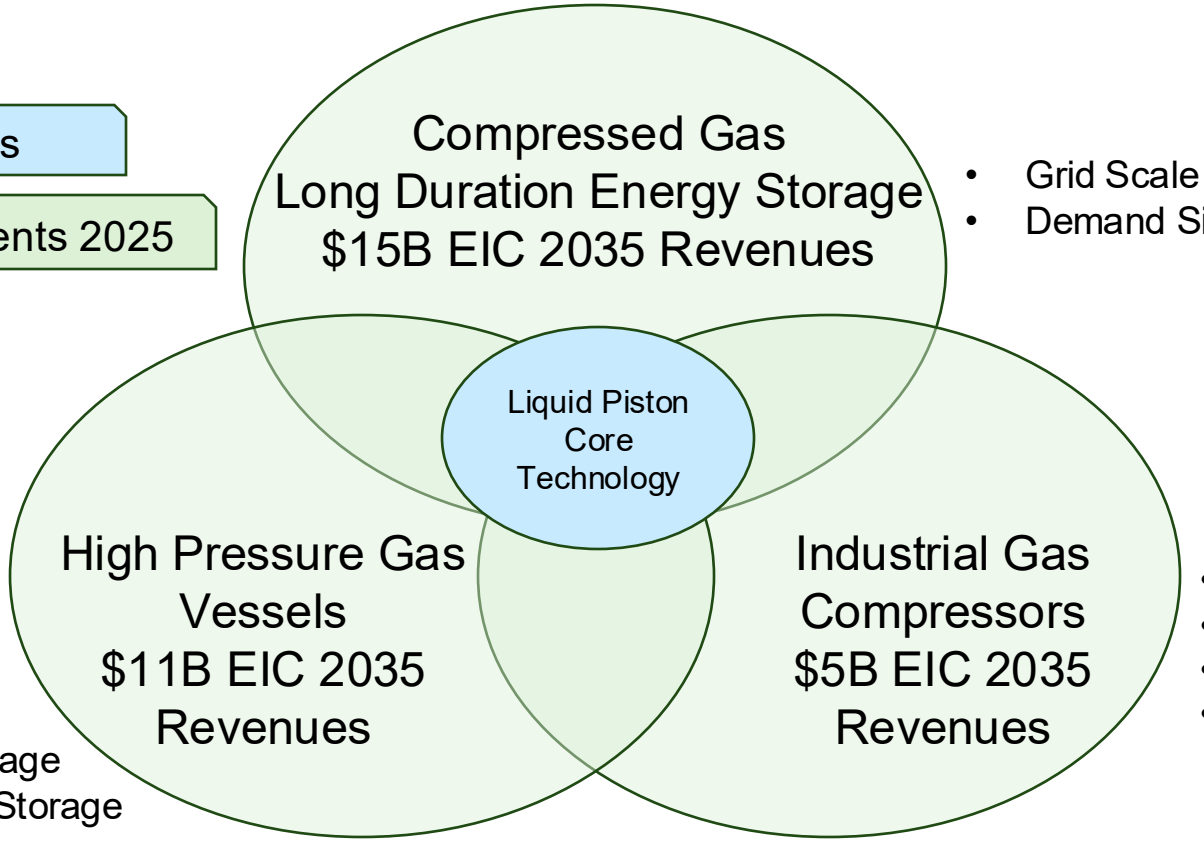
SAFE HARBOR:
EIC has made many forward-looking statements based on current management belief. Forward looking statements involve risk and uncertainty because they relate to future events and circumstances that could cause actual results and developments to differ materially from those expressed or implied by them. Actual results may differ materially from the plans, goals and expectations set forth in such forward-looking statements

Proprietary & Confidential

EIC Solutions for Energy Availability– AI and Beyond

15 Patents

4 + New Patents 2025



- Grid Scale Storage
- Demand Side Storage

- Fuel Gas Storage
- Process Gas Storage

- Gas storage
- Gas pipelines
- Refrigeration
- Process plant gases

Three Complimentary Revenue Streams

Multiple Solutions for Energy Availability

Revenue Activity	$20mm quoted ➢ Bio-methane ➢ Hydrogen ➢ Flue Gas	$100mm quoted ➢ Bio-methane ➢ Hydrogen ➢ E-fuels	➢ Commercializing Designs ➢ Recruiting Pilot Customer ➢ Planning Series A
Developments	Lead Customer in final pricing with end user	Lead Customer provided offtake and partnering LOI	LOI with Plasma Tunnelling Startup, Device Level Patents
Pre-requisites	Certification	Factory Stand Up	Pilot Plant

Short Term and Long-Range Revenue Plan

The Problem

Energy availability threatens energy security and AI dominance

Electrical Power Demand is Accelerating Rapidly

Digital expansion, electrification, and emerging economies driving demand

Generation and Transmission Lead Times Delaying Projects

5-6 year lead times

Renewable Energy Installed Base Growing Rapidly

Cost, availability and cleanliness offset by variability

Grid Stability Decreasing

Demand or environment stressors overwhelm changing grid infrastructure

Energy Storage is Critical to Success

The Timing Is Now

Tailwinds

Demand is Skyrocketing
AI, Electrification, Emerging Nations, Climate

Solar and Wind Reaching Critical Level
'Duck Curve' Worsening but Low Cost and Job Creation Favorable

Grid Resilience Declining
Spinning Reserve Down, Variability Up

Energy Storage Scale Must Increase
Weeks, not Hours Needed for 2030

All Forms of Energy Required
Renewables and Fossils Need Storage

Localized Generation Critical
Location Independence and Fast Power Ramp Needed

Battery Energy Storage Challenges
Scarce Materials, End of Life, Runaway

Headwinds

Climate Change Mindshare Decreasing
US Gov't Policy and AI Focus Distracting Despite Climate Events

Policy Uncertainty
Geo-political Volatility

Speed and Cost over Rhetoric

EIC Technology Overview

Instantaneous heat transfer via **Liquid Piston** provides:

- **Highest efficiency compressed gas energy conversion possible**
- **Longest duration storage at lowest cost**

Scale

Simple hydro-mechanical technology provides:

- **Avoidance of specialty material cost and risk, recycling**
- **Long life without degradation**
- **Lighter footprint than battery, pumped hydro or gravity**
- **Variations of commercially available devices and components**

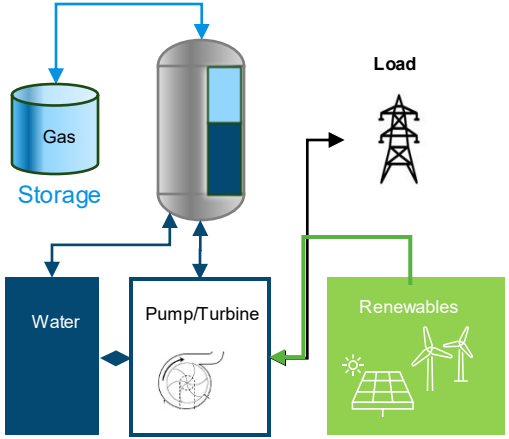
Footprint

Versatile core equipment provides derivative uses:

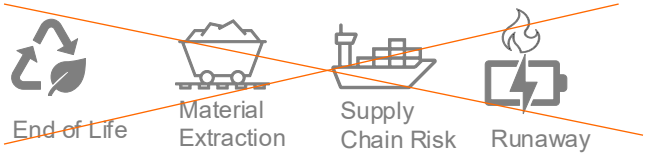
- **Industrial compression i.e. pipeline or process plant gasses**
- **Green hydrogen and ammonia production enhancement**
- **Carbon capture**
- **Multi-benefit i.e. datacenter cooling and power**

Breadth

EIC Isothermal Liquid Piston



Modular and Scalable

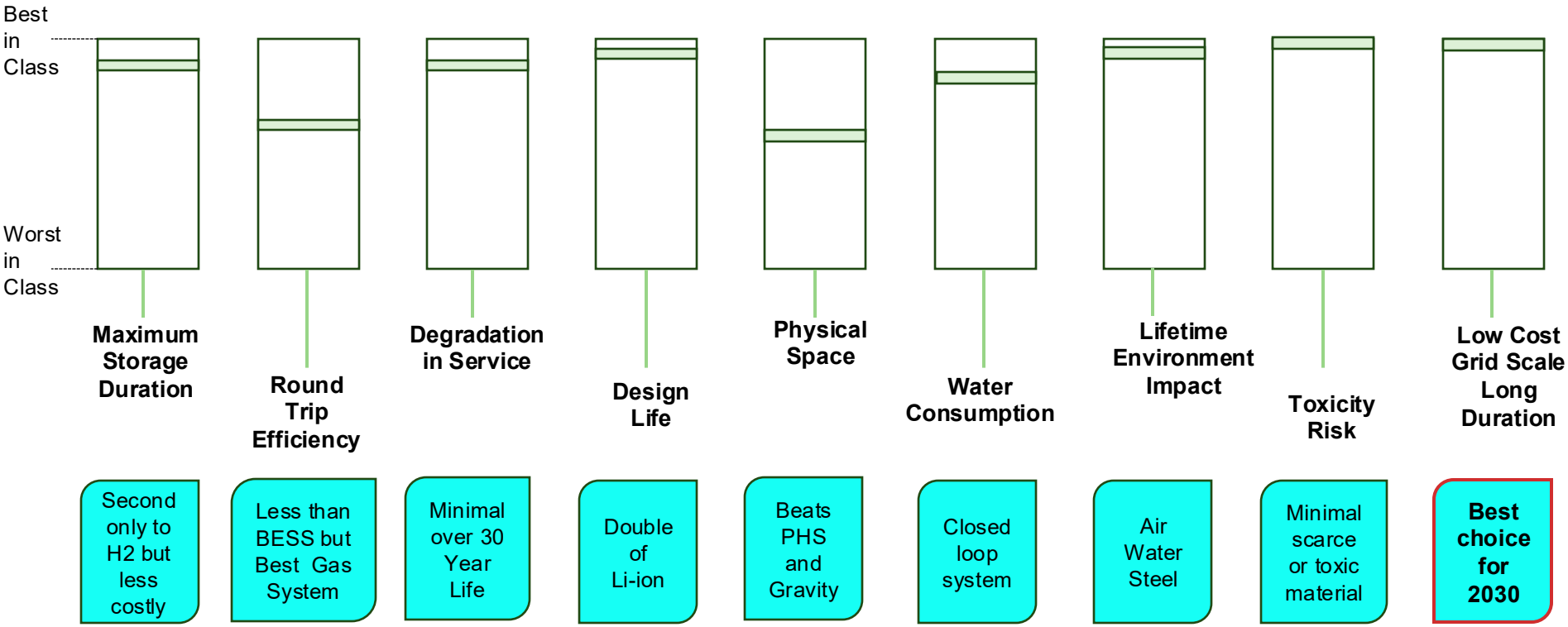


15 Patents

IP Moat

4 + New Patents 2025

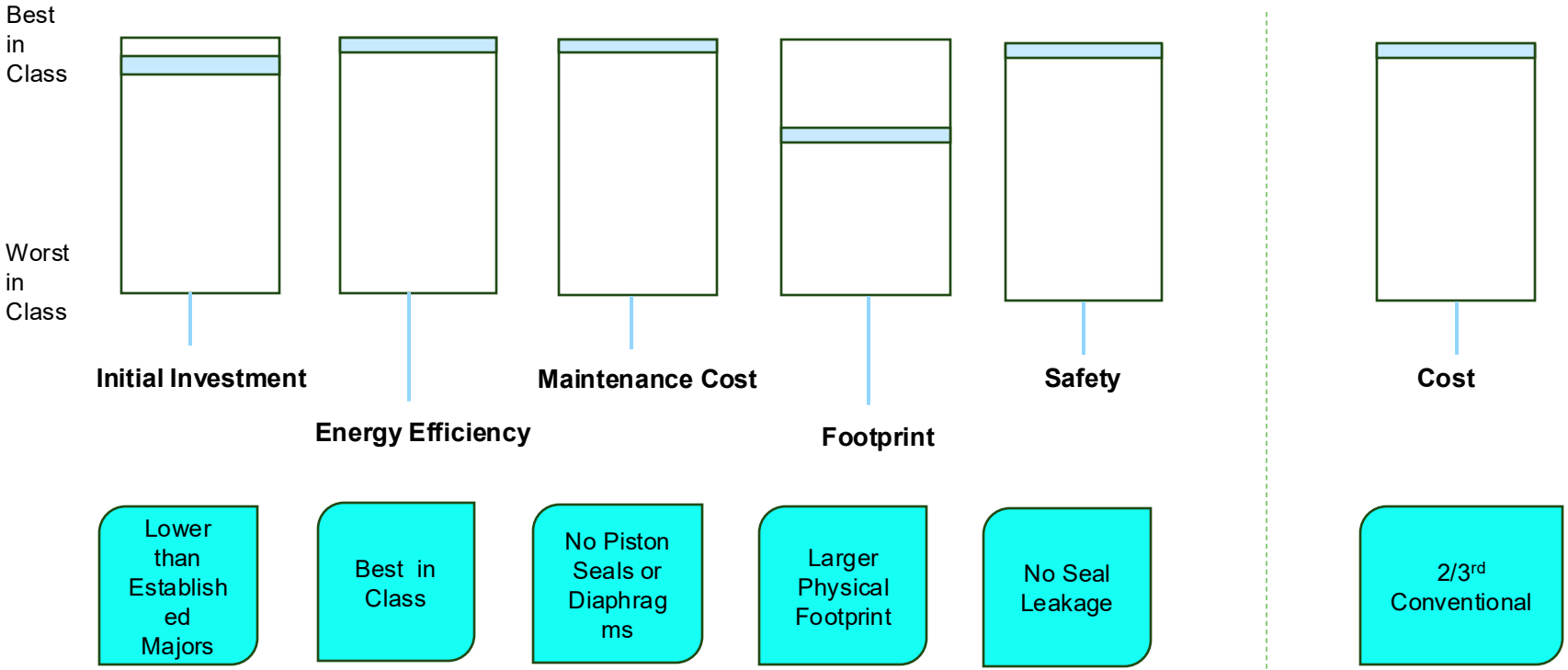
EIC **Energy Storage** Vs. Competing ESS



Best in Class for Multi-Day Energy Storage

EIC **Compressor** Vs. Competition

Vessels



Lifetime Operational Savings 4x Capex

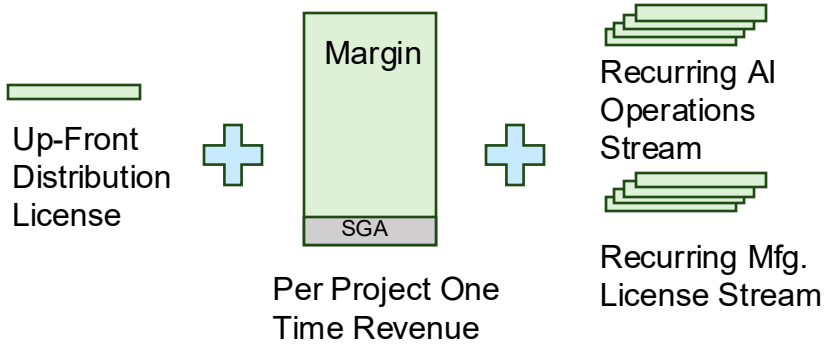
Business Model (Compressor and Energy Storage)

Hardware Business with Software ROI

Upfront Design Concentration Provides Infinitely re-Deployable Solution

- Modular Design for any Scale Factory
- Standard Building Blocks Avoid Intensive Project Design
- Highly Automatable and High-Volume Suitable Designs to Leverage Existing Global Capacity
- Asset-lite Model Licensing Design and Process to Value-Chain Partners Avoiding Most Equipment and Working Capital Tie-up
- Multiple and Diverse Revenue Streams

Revenue Stack

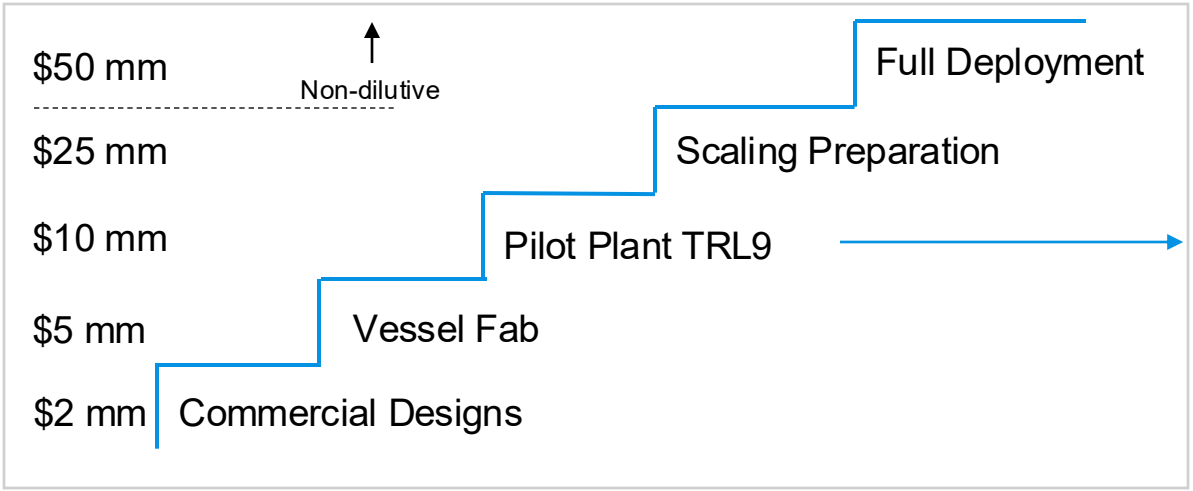


Infinitely Re-deployable Designs

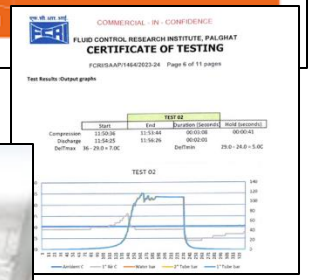
Development Status

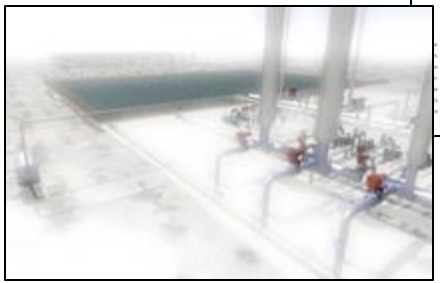
Investment to Date

- $5mm founders, execs, SAFEs
- Fragmented Cap Table
- Recent Investments in In-House Engineering and R&D Center Producing Fast Learning Cycles
- Focus Shift to Commercialization



EIC Bangalore R&D Center Devices and Certification





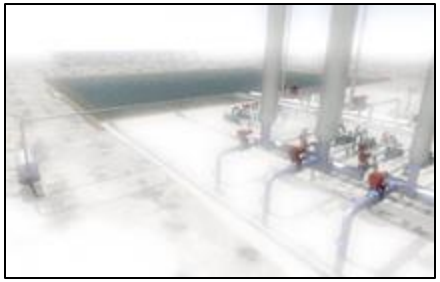
Technology Readiness Level 6

Investor Return

1. Design Commercialization
Seed Round ~$2mm

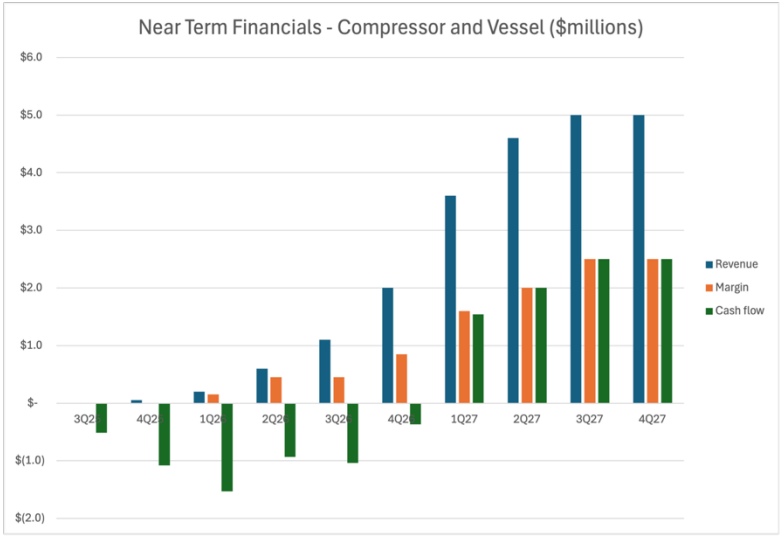
2. Vessel fabrication
equipment~$5mm (Debt + Equity)

3. Demo plant Energy Storage
Series A~$10mm

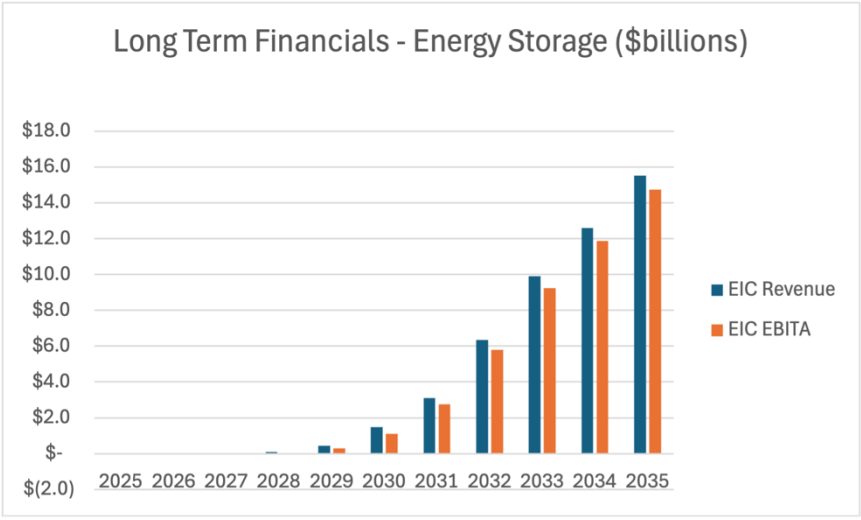


4. Series B Final Dilutive
Investment~$25mm

Note: Compressor and Energy Storage are licensing models, Vessel fabrication is traditional



Near Term



Long Term

Team

Exec Team

Mark Weathers
CEO
Experienced Operations Leader, GE, Honeywell, Small Business Owner

Sastry Bhamidipati
Sr Vice President - Engineering
EIC Labs
Former CTO @ GE JV in Power Sector, Senior techno-commercial roles @ Baker Hughes and Applied Materials

Scott Cisel
Sr. VP – Business Development
Former Chair/CEO, Ameren Illinois,
Strategy advisor and board member at First Banker Trust

Raja Ratnam
Managing Director (Australia)
Experienced Energy Executive, ALSTOM Power, Aurecon, Worley, Projects Services International

Vikram Kaul
Sr. VP - Technology Licensing
Experienced executive business leader at NIIT, Mindtree and Bristlecone, Advisor Univ of Texas

Execs and Advisors Cumulative Experience Approaching **700** Years

Technical Advisors and Staff

- 12 Technical Experts
- 20 Engineering Degrees
- 6 Doctoral Degrees
- 4 Entrepreneurs

Board and External Advisors

- 3 Board Members
- 6 External Advisors
- Average 30 years of executive experience

Thank You

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Backup Slides Follow

EIC Solutions

Energy Storage System

- Convert excess electricity into compressed gas energy
- Generate electricity from stored gas energy
- 68% round trip efficiency
- Storage duration from days to months
- Power from microgrid to utility scale
- Low impact materials
- Cost parity to fossil fuel

The Product:

Liquid Piston

Isothermal Gas Compression and Expansion

.Efficiency

.Duration

Industrial Gas Compressor

- 20-50% energy use reduction
- Cost advantage for high pressure compression
- Reduced maintenance and robust seal-less operation
- Lowest cost high pressure stationary gas storage vessels via JV

Approaches Theoretical Maximum Efficiency

EIC Solutions

	Energy Storage Applications	Compressor Applications
Supply Increase Solutions	**Compressed Gas Energy Storage** ❖ Giga-Scale Compressed Air Energy Storage ❖ Mega-Scale Multi-Day Energy Storage Round-the-clock Renewable Energy Curtailment Avoidance Lowest Cost, Cleanest Energy Local Generation and Storage Spinning Reserve	**E-Fuel Production Enhancement** ❖ Liquid Piston Gas Compressors ❖ Big-Ton Storage Vessel (JV) Green Hydrogen Green Ammonia Bio-methane Waste to Energy
Demand Decrease Solutions	**Compressed Gas Energy Storage** ❖ Time shifting via energy storage ❖ Decoupled data center cooling Peak Charge Avoidance Demand Abatement Requests Off-Grid Data Center Cooling	**Industrial Compression Energy Reduction** ❖ Liquid Piston Gas Compressors Refrigeration Gas Pipeline Pressure Gas storage Compression Chemical Process Compression

The Product:

Liquid Piston

Isothermal Gas Compression and Expansion

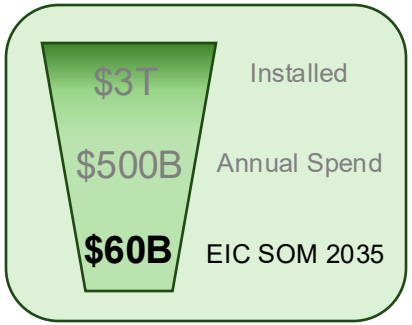
.Efficiency

.Duration

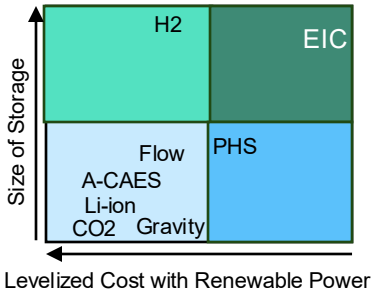
Multiple Availability Solutions

Market Size

Energy Storage Applications



Driver



The Product:

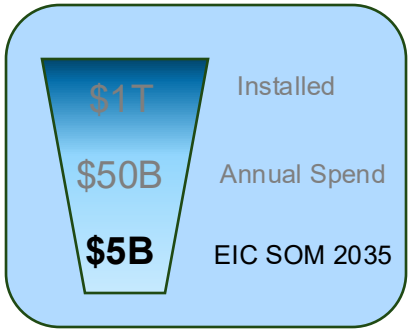
Liquid Piston

Isothermal Gas Compression and Expansion

.Efficiency

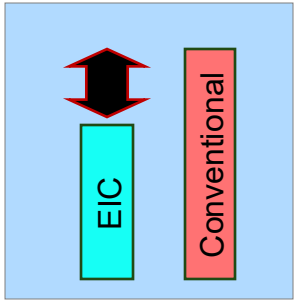
.Duration

Compressor Applications



Driver

Energy required to compress gas 100:1 20-50% less



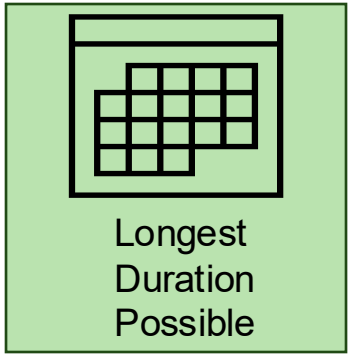
Huge Potential Market Opportunity

Investment Opportunities Detail

Obtainable Market Size	$60B ($500B SAM) + $5B ($50B SAM)	$60B ($500B SAM)	$11B ($35B total mkt)
Investment Opportunity	$2mm Design Commercialization	$10mm Pilot Plant Series A	$5mm Manufacturing Plant
Investment Vehicle	SAFE $100mm Cap 80% Discount	SAFE $100mm Cap 80% Discount	Direct Investment in Joint Venture
Resultant Equity	1% Plus Discount	10% Plus Discount	10%
Use of Funds	Value Engineering and Operating Software for Commercial Deployment	Build and Operate 1 MW 10 Hour Pilot Plant	Equip and Operate Vessel Mfg. Plant
Expected Results	Readiness for 1MW Pilot Plant	TRL9 in 18-24 Months	Production Line 18-24 Months
Use Cases	Microgrid, Datacenter, Solar or Wind Farm, Grid Storage	Pipelines, Refrigeration, H2 Refueling, E-Fuel Production	Hydrogen Storage, E-Fuels, Compressed Air

The Solutions

Iso-Thermal Compression and Expansion of Gas Enables Storage **Efficiency** and **Duration**



Low Cost 24 Hour Renewable Power

Firm dispatchable zero carbon energy at grid scale for partial or full load power

Time Shifting

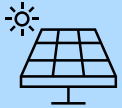
Peak charge avoidance, demand abatement revenue

Local Generation

Avoid Buildout and Congestion

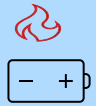
Reduced Curtailment

Store and Re-deploy



Reduced Risk

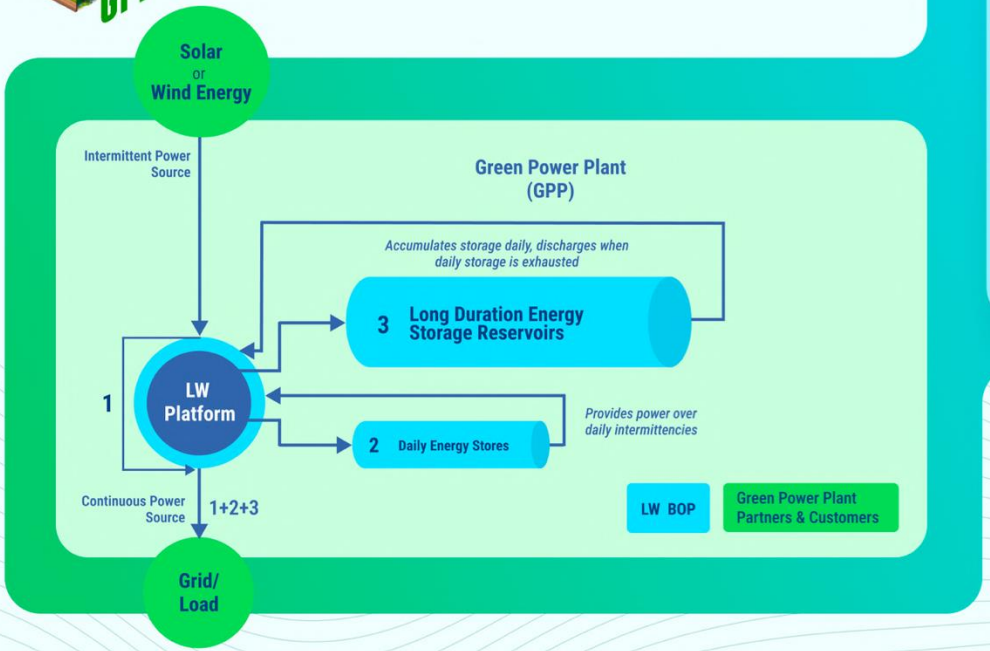
Less Operational and Supply Chain Risk



Applications - Green Electricity

Applications

Green Power Plant



Solar or wind energy has daily intermittences and extended periods of zero generation in a year. The Green Power Plant (GPP) uses this supply to deliver 24X7X365 continuous power to grid or customer loads.

GPP directs the available power first to the load or grid.

1 Any surplus first fills a Daily Energy Stores (DES) Vessels.

2 Then accumulates the Long Duration Energy Storage (LDES) Reservoirs.

3 The GPP delivers grid the power from DES over daily supply zeroes and shortfall and the LDES over multi-day zeroes.

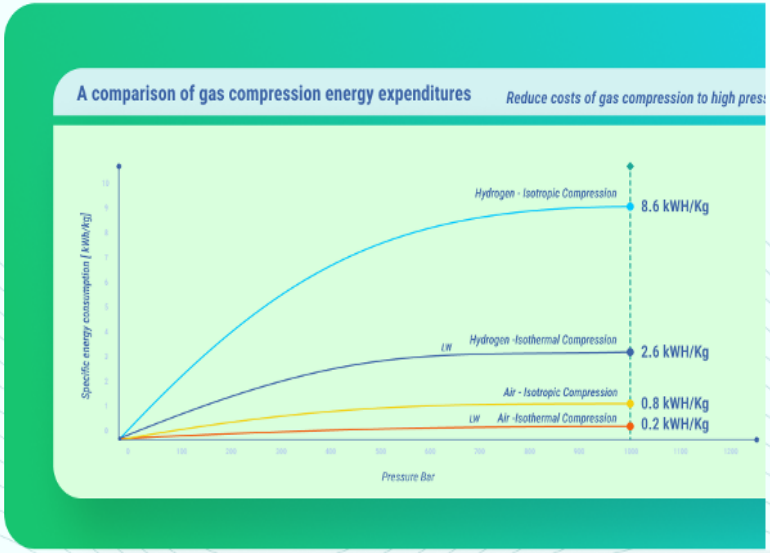
The LW platform efficiently stores energy (in DES & LDES) and generates power from it using its isothermal compression - expansion system.

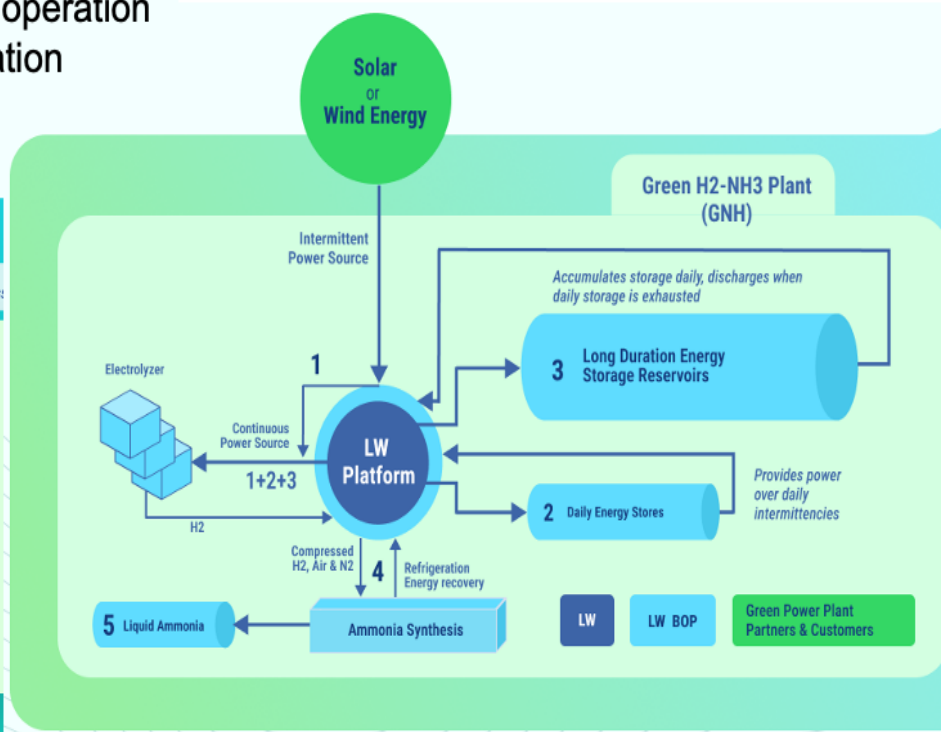
Applications - Green H2 and Ammonia

Applications

High capacity factor & efficiency → low cost of H2/NH3

- continuous green power, 24X7 electrolyzer operation
- Low costs of gas compression and refrigeration
- 24X7 ammonia synthesis
- Higher ammonia yield





Applications - Industrial gas compression and HVAC

Applications

Replace deployed equipment to recover investment in 2 years from annual power savings

Illustration- Cold Storage 24X7 Refrigeration Cycle using R134a

Item	Systems today	LW system
Power use (KW/TR)	0.47	0.25
CapEx ($/TR)	$2500-$4000	
Annual Power Costs ($/TR-year) @ $80/ MWH	$329	$175
Cost of upgrades like power backup or direct use of renewable power	High	Low

Illustration for Hydrogen Compression

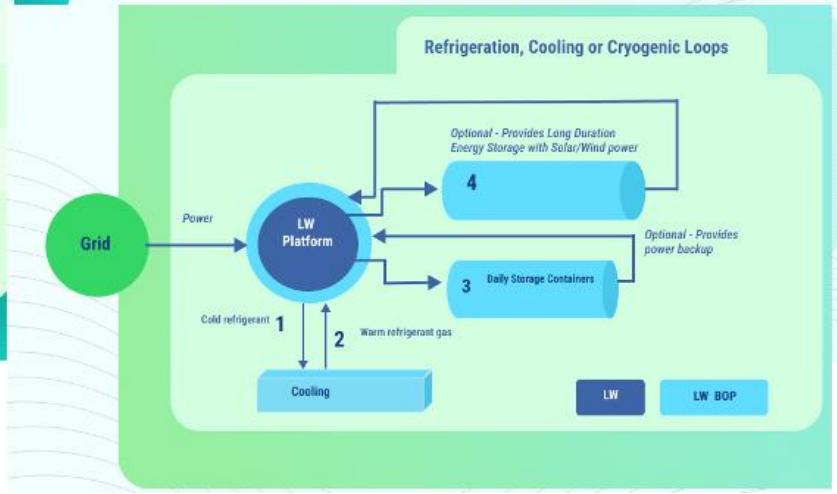
1000 Nm3/hr H2 Compression 30-300 bara — All Costs in $ Millions

Compressor	Annual Power Costs (2)	CapEx	Annualized TCO (3)
Today (1)	$ 1.47	$ 0.29	$ 1.53
Liq watts	$ 0.98	$ 0.14	$ 1.01
Savings	$ 0.49	$ 0.16	$ 0.52
	33%	53%	34%
Payback 0-32 Years			

(1) Diaphragm Compressor

(2) Power @ $120/MWH

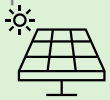
(3) Discounted at 8% p.a. Includes10% and 8% annual maintenance respectively (Today vs LW)



Datacenter Solution Suite

24 Hour Renewable Power

Firm dispatchable zero carbon energy
at grid scale for partial or full DC power



Power Backup

Eliminate diesel gensets

Time Shifting

Peak charge avoidance, demand abatement premiums

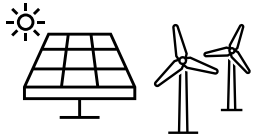
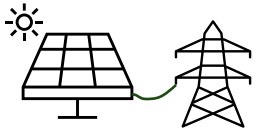
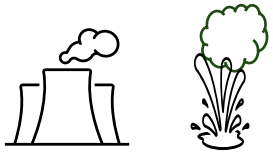
Local Generation

Avoid Buildout Cost and Time

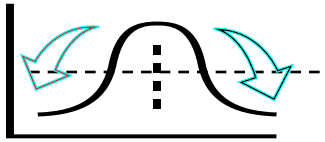
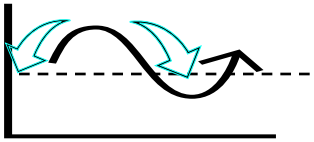
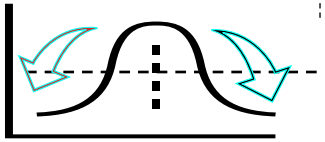
Datacenter Cooling

Lower PUE, reduce water loss, de-couple cooling load from critical load

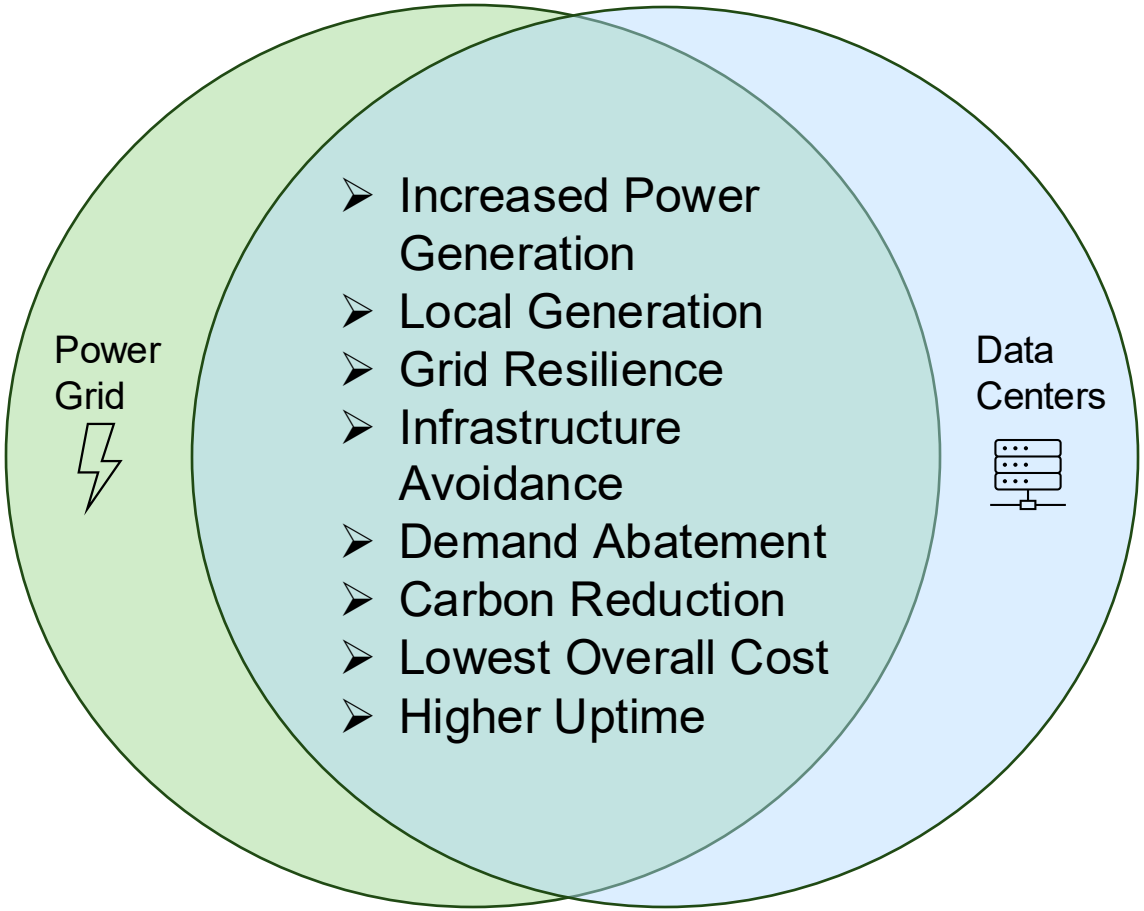
Renewable Energy Data Centers

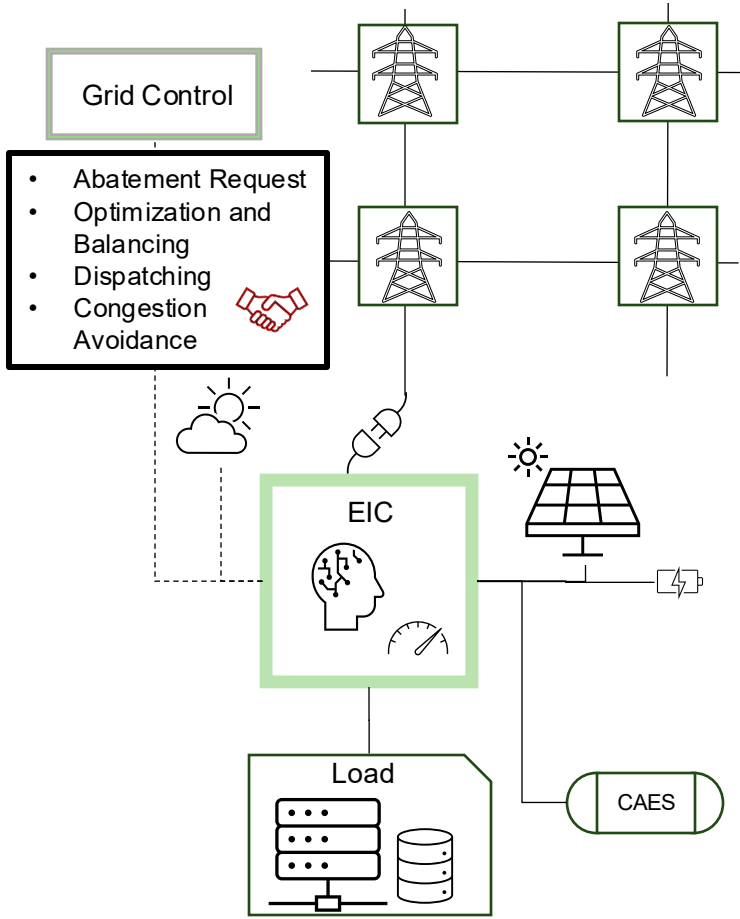




Type	Behind The Meter Variable Solar or Wind	PPA or Matching Variable Solar or Wind	Steady Nuclear or Geothermal	Semi-variable Hydropower or Ocean	Fuel Cell or E-fuel Genset
Example	Moha DC Dubai	Google DC Mesa Arizona	Amazon DC Susquehanna PA, Meta DC (TBD)	Green Mtn DC SVG-Renesoy	Microsoft Plug Power Trials
EIC Solution	Hourly to Weekly Storage		Avoid Peakers and Run at Higher Capacity Factor	Seasonal Storage	Gas Compression and Storage


EIC System Solutions





Use Case Economics

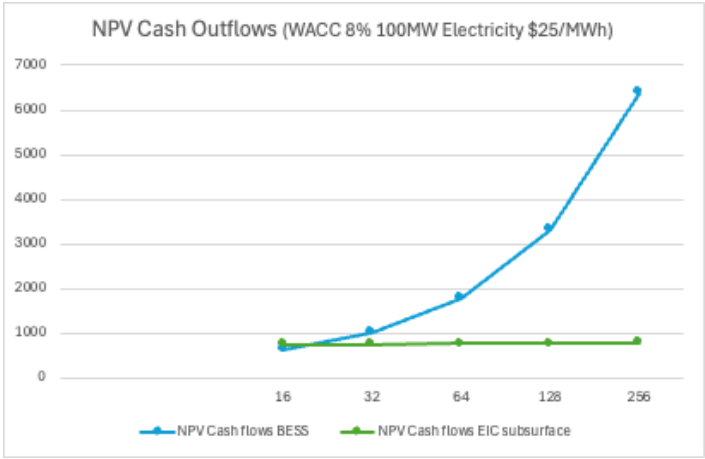
Example 1: **100MW Datacenter Grid Connected**
10 hours daily peak avoidance or Demand Abatement Request
22 hours backup power

	EIC	Battery
Capital	$767 mm	$1019 mm (Present Value of 2 batteries and recycle cost)
Opex	$8 mm/yr	$6 mm/yr
LCOE premium	$.053/KWh	$.078/ KWh

Example 2: **100MW Datacenter Solar Behind The Meter**
16 hours nightly power from storage
84 hours backup power

	EIC	Battery
Capital	$770 mm	$2654 mm (Present Value of 2 batteries and recycle cost)
Opex	$8 mm/yr	$19 mm/yr
LCOE premium	$.053/KWh	$.244/ KWh

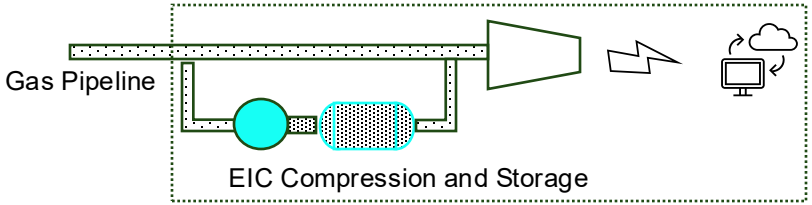
Subsurface I-CAES vs Li-ion



Datacenter Solutions with Partner Supported Alternative Fuels

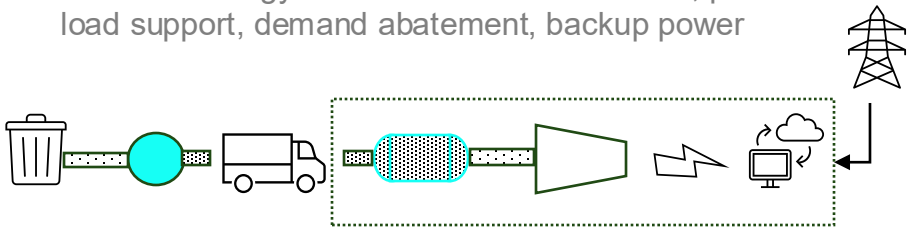
1. Storing natural gas at point of generation to avoid pipeline constraints during peak

Peak load cannot be supported by NG pipeline flow rate, bank NG for local generation or for backup instead of diesel



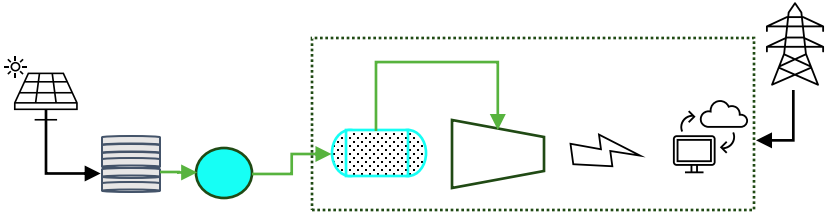
2. Remote gaseous e-fuel (e.g. Bio-Methane from waste) with on-site storage and generation

Alternate energy source for carbon reduction, peak load support, demand abatement, backup power



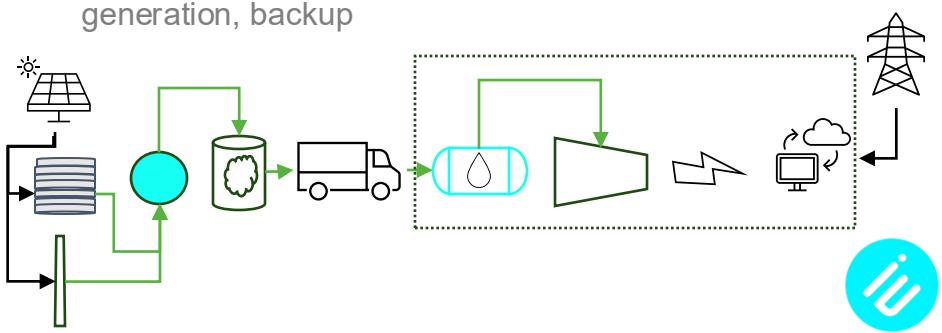
3. On-site hydrogen generation for backup

Alternate energy source for carbon reduction, on-site generation, backup



4. Remote liquid e-fuel (eg. Green Ammonia) with on-site storage and generation

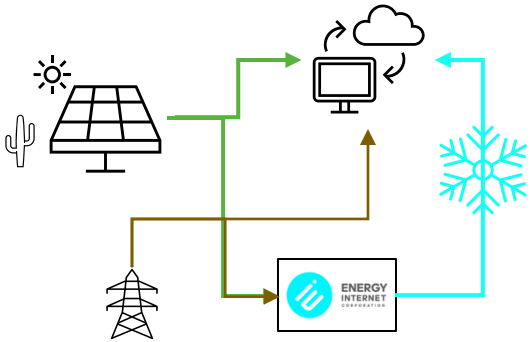
Alternate energy source for carbon reduction, on-site generation, backup



Datacenter Cooling Solutions

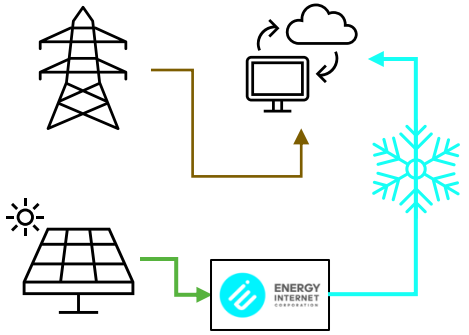
1. Small DC Standalone Refrigeration Cooling

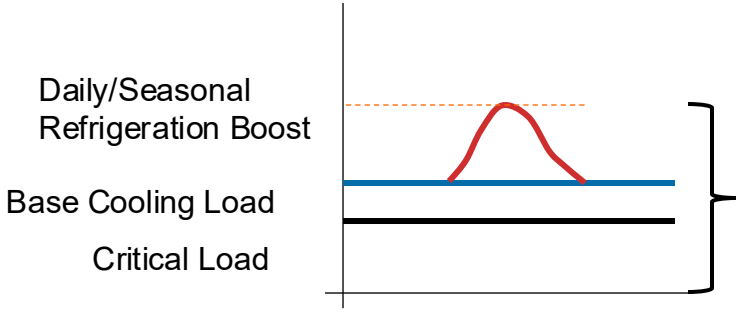
Higher PUE, Location Flexibility



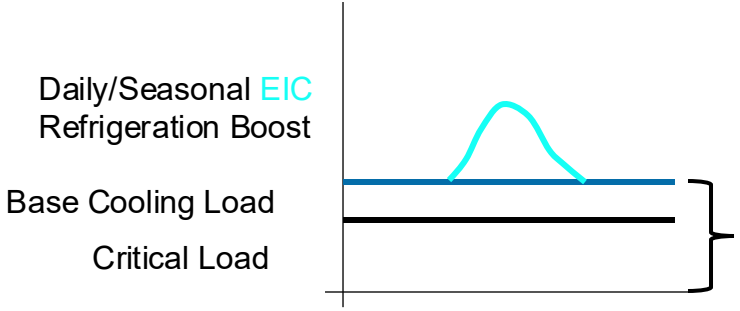
2. Large or HyperScale Refrigeration Cooling

Lower PUE, Lower Feeder and Backup Infrastructure





Peak drives feeder and backup size and cost



Peak decoupled from feeder and backup size and cost

Intellectual Property

AttorneyRef	Title	Status	ApplicationNum	FilingDate	PublicationNum	PatentNum	IssueDate
EIC-001	ENERGY MANAGEMENT WITH MULTIPLE PRESSURIZED STORAGE ELEMENTS	Issued	16/118,886	8/31/2018	20190064757	10725441	7/28/2020
EIC-002	MODULARIZED ENERGY MANAGEMENT USING POOLING	Issued	16/377,511	4/8/2019	20190235457	11392100	7/19/2022
EIC-003	ENERGY STORAGE AND MANAGEMENT USING PUMPING	Issued	16/378,243	4/8/2019	20190234305	10947899	3/16/2021
EIC-004	POWER MANAGEMENT ACROSS POINT OF SOURCE TO POINT OF LOAD	Issued	16/423,245	5/28/2019	20190280483	10998727	5/4/2021
EIC-011	DESALINATION USING PRESSURE VESSELS	Issued	17/072,061	10/16/2020	20210032129	11261107	3/1/2022
EIC-011CI	LIQUID PURIFICATION WITH PRESSURE VESSELS	Issued	17/681,889	2/28/2022	20220274854	12157685	12/3/2024
EIC-012	CONTROLLED LIQUEFACTION AND ENERGY MANAGEMENT	Issued	17/184,644	2/25/2021	20210180860	11566839	1/31/2023
EIC-013	ENERGY TRANSFER USING HIGH-PRESSURE VESSEL	Issued	17/351,523	6/18/2021	20210313835	12155205	11/26/2024
EIC-014	CONTROLLED REFRIGERATION AND LIQUEFACTION USING COMPATIBLE MATERIALS FOR ENERGY MANAGEMENT	Issued	17/366,142	7/2/2021	20210333029	11906224	2/20/2024
EIC-023	SOFTWARE-DEFINED MODULAR ENERGY SYSTEM DESIGN AND OPERATION	Published	17/980,600	11/4/2022	20230054705		
EIC-024	ENERGY STORAGE WITH COMPRESSED GAS USING HYDRAULIC TRANSFORMERS	Pending	19/039,873	1/29/2025			
EIC-024W	ENERGY STORAGE WITH COMPRESSED GAS USING HYDRAULIC TRANSFORMERS	Pending	PCT/US25/13488	1/29/2025			
EIC-026P	ENERGY TRANSFER WITH A LIQUID GAS SYSTEM WITH INCOMPATIBLE LIQUIDS AND GASES	Pending	63/645,306	5/10/2024			
EIC-027Q	MONOLITHIC MANIFOLD JOINING USING INTEGRATED CASTING	Pending	63/698,590	9/25/2024			

15 Patents

4 + New Patents 2025

Competitive Landscape

At Grid Levels	Max Duration	Levelized Total Cost	Life	Enviro-Impact	
EIC I-CAES	☑	☑	☑	☑	
Li-ion Battery	☒	☒	☒	☒	Scarce Material, End of Life Impact, Degradation, Lifespan
Flow Battery	☒	☒	☒	☒	Scarce Material, End of Life Impact, Degradation, Footprint
Pumped Hydro	☒	☑	☑	☒	Footprint, Geography, Water
Gravity	☒	☒	☑	☑	Scalability, Footprint
Carbon Dioxide	☒	☒	☑	☒	Scalability, Footprint
Hydrogen	☑	☒	☒	☒	Cost, Scarce Material, Life
A-CAES	☒	☒	☑	☑	Scalability, Duration