



Breaking Peak Power Limits

Boosting power economics,
efficiency and resilience for data
centers and commercial buildings

April 2026



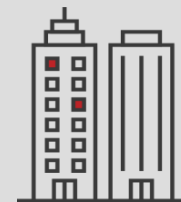
Nostromo is the first fully-scalable thermal energy storage platform

that removes power-peak loads, enabling data centers to increase compute capacity and commercial buildings to cut peak-demand costs and emissions.

Commercial Buildings



Data Centers



The Global Pain: Peak Power Is Breaking the Grid

The AI revolution and data center boom, as well as global shift toward electrification, are driving unprecedented growth in demand for electricity. Grid congestion and peak loads drive inefficiency, forcing oversized infrastructure that's only **half utilized**.



Cooling is the Culprit

Main Driver of Peak Load:

Cooling accounts for most demand variability.

In data centers, it accounts for up to

40%

of peak electricity demand.



In commercial buildings, it accounts for

30-70%

of peak electricity demand.



The Customers' Pain



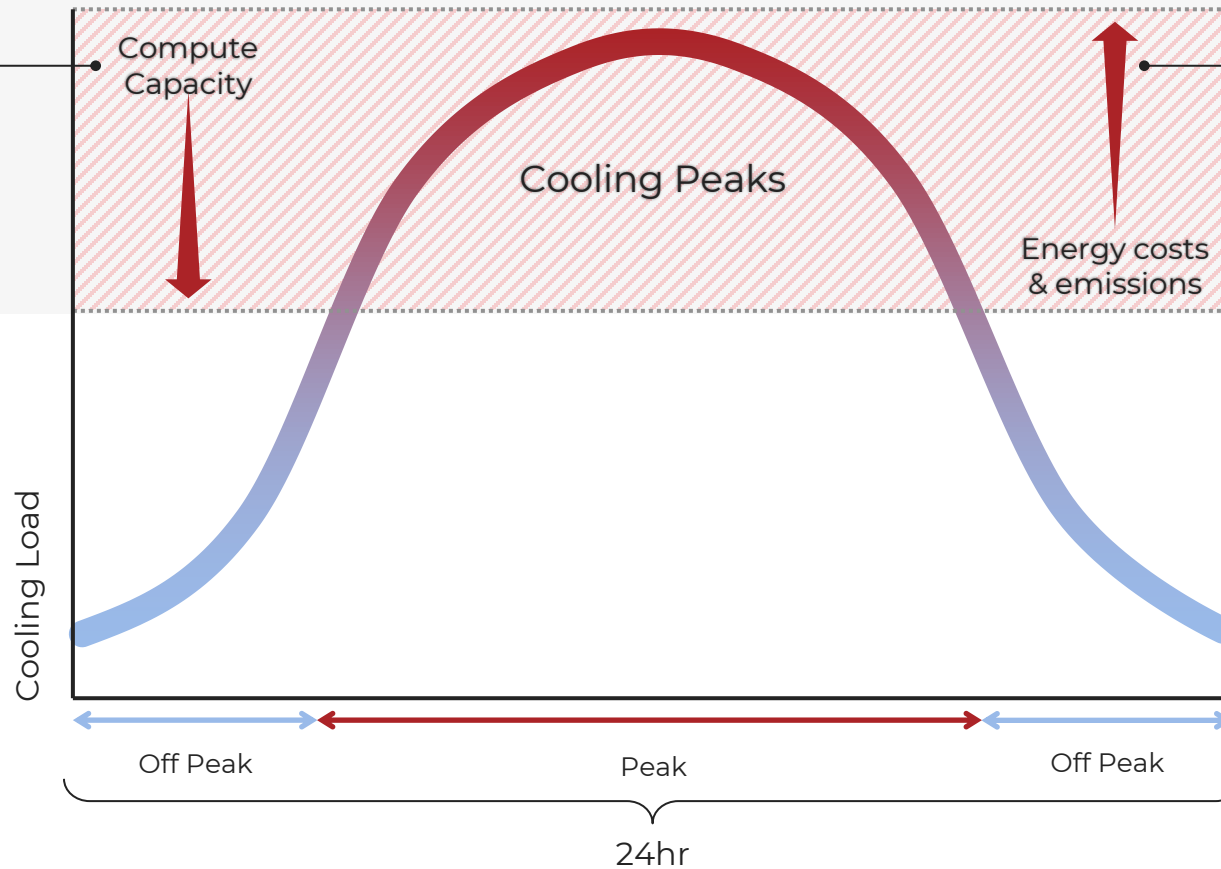
Data Centers

High value computing capacity is "stranded" by power and cooling peaks



Commercial Buildings

Cooling drives peak loads and power costs, increasing emissions



The IceBrick[®] Solution



Data Centers

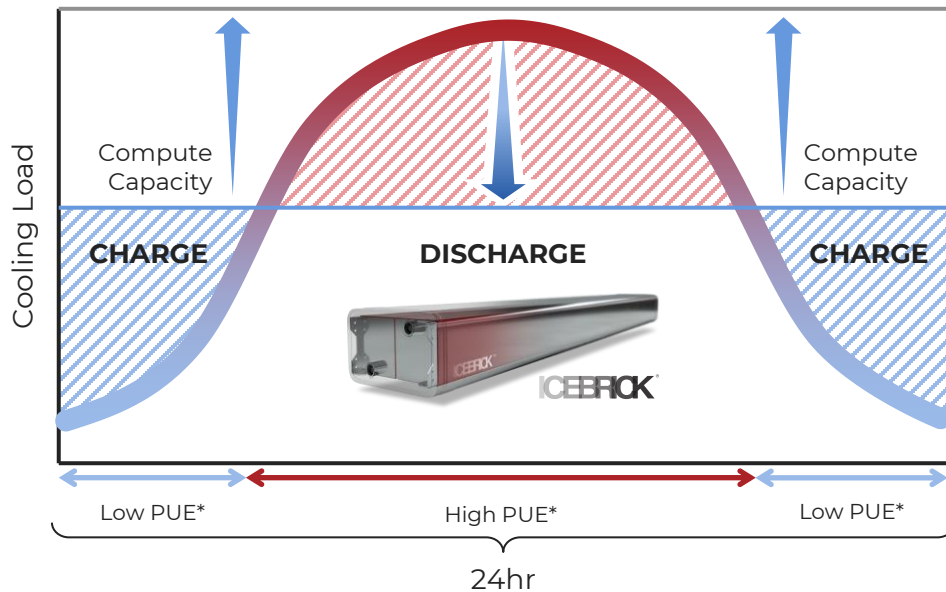
- Increase 5-15% Compute Capacity
- Improve Efficiency
- Back-up Cooling



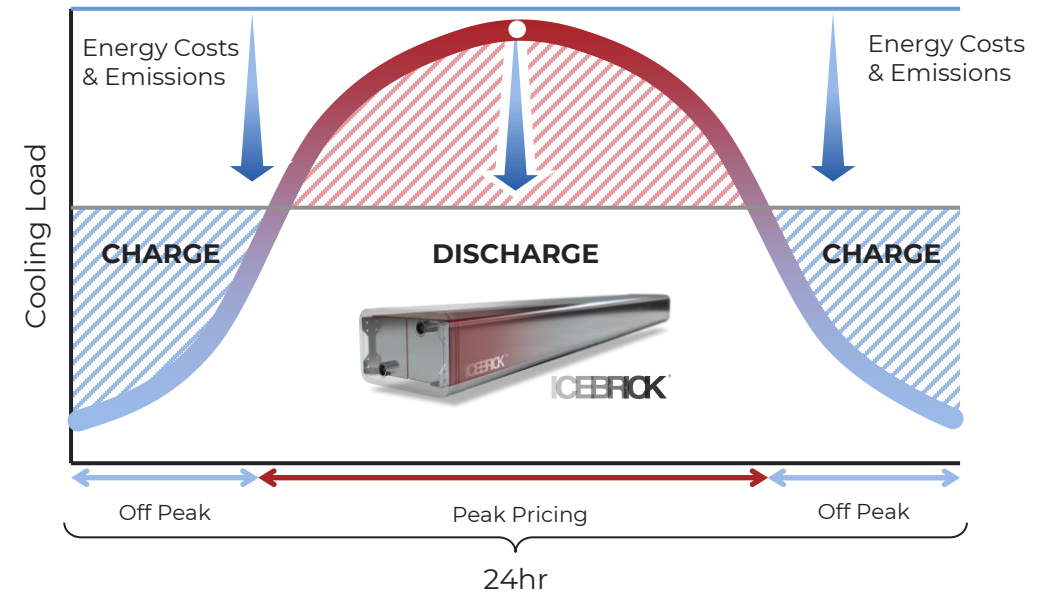
Commercial Buildings

- Cut Power Costs
- Cut Emissions
- Back-up Cooling

Shift cooling power consumption to unlock compute capacity and improve efficiency



Shift grid power consumption to reduce on-peak charges & generate Demand Response revenues



IceBrick®: Fully Integrated Demand Management

A turnkey platform combining breakthrough thermal storage hardware with AI-driven energy optimization software.

IceBrick® is the **first** thermal energy storage tech approved by market regulators* for wholesale market participation.

* California Public Utilities Commission (CPUC), and California Independent System Operator (CAISO).



IceBrick® System Thermal Energy Storage

Compact & Modular

High density, fits in basements, and rooftops. Retrofit ready.

Sustainable & Safe

Water-based (ice), non-toxic, non-flammable. 100% recyclable.

Unmatched Performance

90%+ Round Trip Efficiency. Fast discharge capability (<4 hours).

Long Lifespan

25-year useful life, minimal degradation, no repowering.

100% US Made

No supply chain risks, ready to scale.



VIDEO ON TECHNOLOGY



Cirrus™ Platform Cloud Management System

AI Optimization

Predictive load forecasting and dynamic dispatch with real-time corrections, for maximizing efficiency and savings.

Grid Integrated

Online interface with grid operator and wholesale markets (CAISO) for additional revenue generation.

Real-time Analytics

Granular telemetry, reporting, and settlement verification.

Multiple Modes

Optimize energy for maximizing capacity, savings, resilience and/or reducing emissions.

Process: The Intelligent Cooling Cycle

Unlocking Power for Compute

- Shifting load to low night-time PUE, take advantage of unutilized power capacity
- Reducing day-time cooling load – improves efficiency and releasing more power for compute

1 Smart Charge

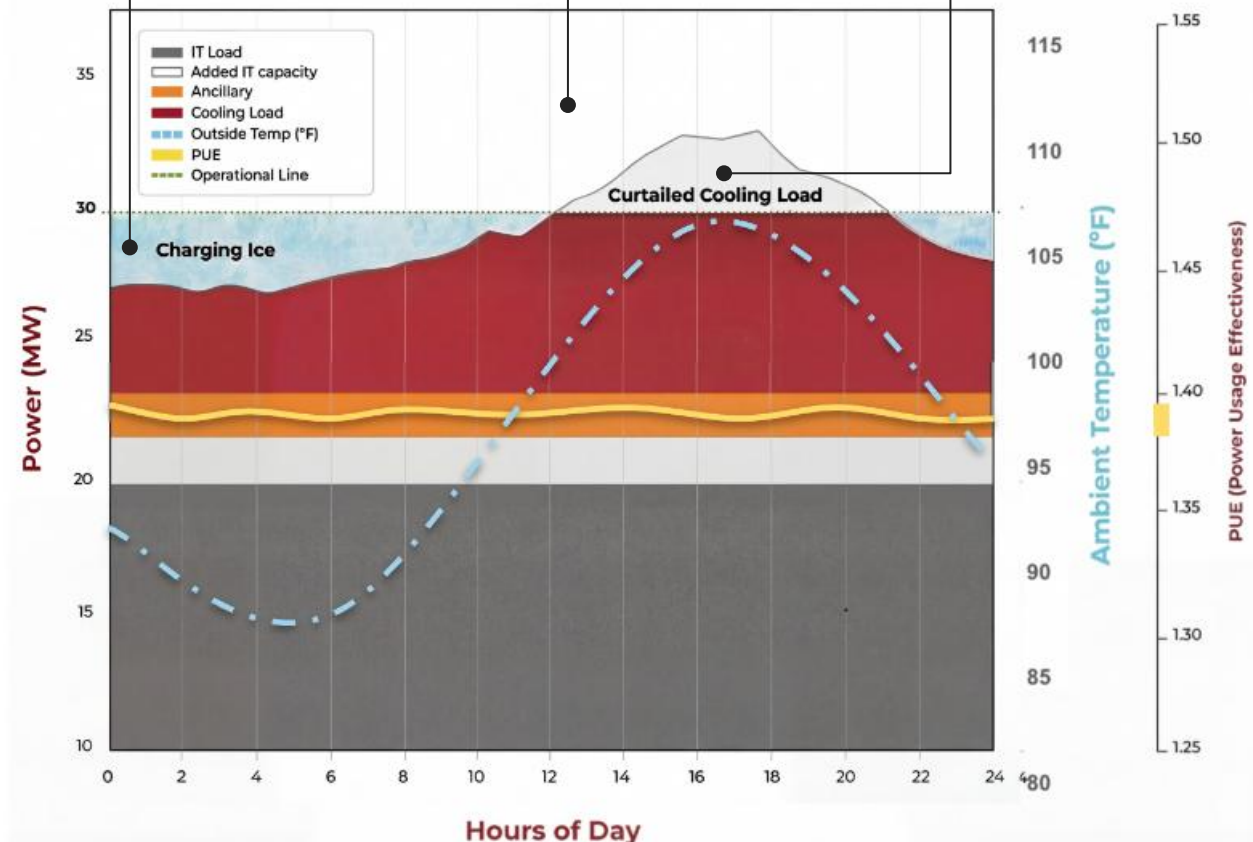
Charging during off-peak / low PUE hours, freezing water using surplus, low-cost, cleaner electricity and with high efficiency.

2 AI Optimization

Cirrus platform forecasts loads, collects prices, and schedules the optimal dispatch cycle.

3 Peak Discharge

During peak hours, ice melts to cool the building, offsetting chiller operation and demand.



Technology: Patented IceBrick® modular thermal energy

Vetted By Industry Leaders



U.S. Dept of
Energy



U.S. General Services
Administration



UC Berkeley
National Lab



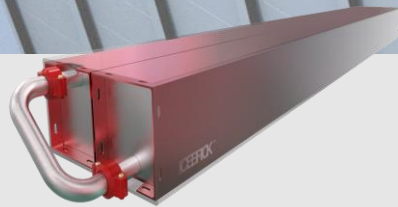
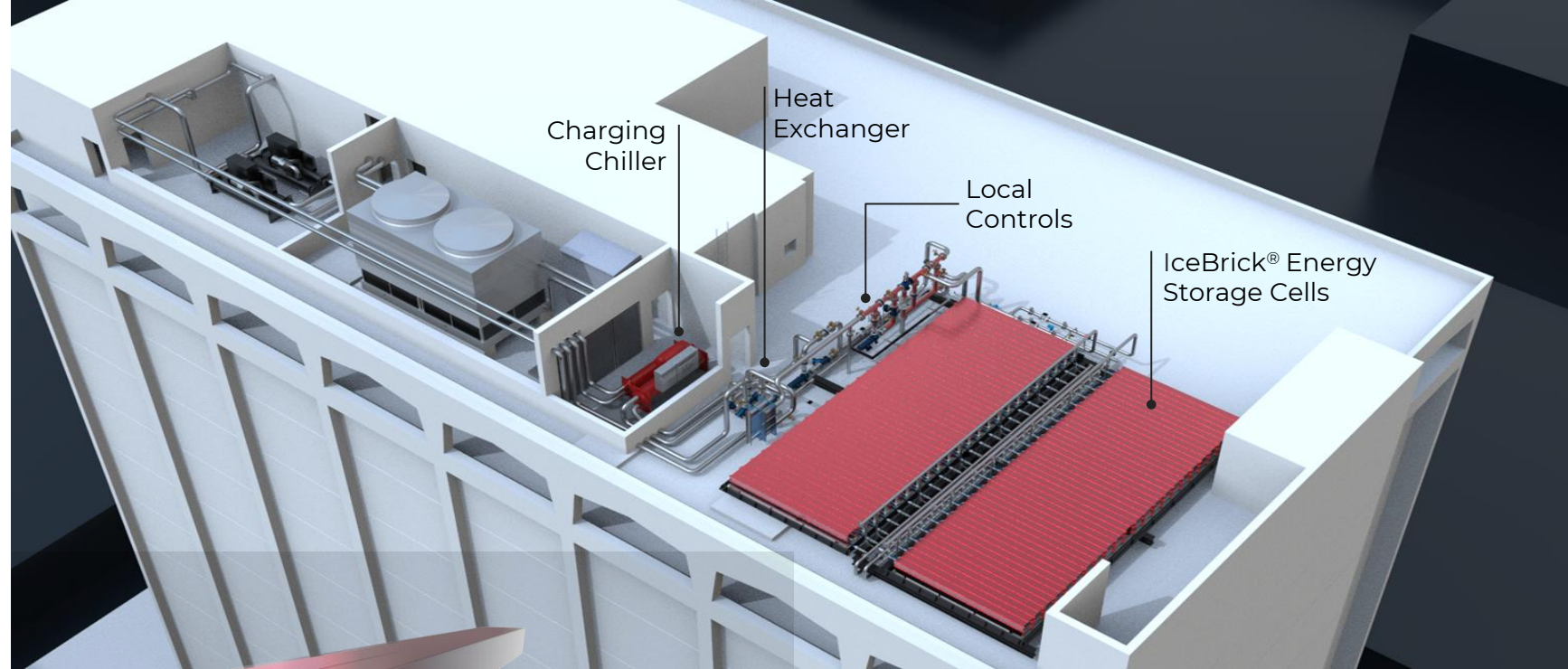
California Public
Utilities Commission



California Independent
System Operator



American Society of
Civil Engineers



- Highly-efficient charging process, accelerated by proprietary freeze-promoting agents.
- Closed-loop system, zero water waste, energy delivered directly to the facility's circulating chilled-water system.
- Multiple modes: support, standalone cooling, and backup.
- 100% US Made, 100% Recyclable, 100% Safe
- 8 US patents (3 issued, 5 pending).



- Advanced, cloud-based management system using AI, machine- and deep-learning for forecasting, optimization, multi-modal analytics.
- Forecasts energy needs, optimizes and controls charge & discharge cycles
- Integrates with the power grid.

Urgency Meets Opportunity

Grid Crisis & AI Boom

3-5 Years

Interconnection delays for new data centers due to capacity constraints. "Power is the new real estate"

Grid Under-utilized

47%

Nearly half of capacity is unused due to load peaks, driven mainly by cooling. Sufficient power available (prioritized) for flat/flexible loads

Infrastructure Spend

\$1.1 T

Projected grid infrastructure investment through 2030. Utilities are actively seeking non-wires alternatives to meet demand

Supporting Policies

40-50%

Investment Tax Credit (ITC) for thermal storage. Financing and regulatory opportunities for distributed energy resources and VPPs*

Competitive Landscape



IceBrick®

Traditional Thermal Energy Storage

Li-Ion Batteries

Increase Data Center Capacity

✓ 90% storage output
Shifting *and* cooling efficiency

✓ 90% storage output
Shifting *and* cooling efficiency

– 50% storage output
Shifting only

Safety & Fire Risk

✓ 100% Safe

✓ 100% Safe

✗ Flammable & Thermal Runaway Risk

Retrofit Design & Density

✓ Compact & Modular. 1/3 space of traditional thermal storage for same usable energy

✗ Massive Tanks. Mount on ground level mount new construction / renovation

– Fire code limitations. Limited in-door capacity, spacing, fire precaution, fire access

Permitting

✓ Simple

✓ Simple

✗ Complex (Fire Code)

System Lifespan

Performance Degradation

✓ 22-25 Years
0.05%/yr

– +20 Years

✗ 10-12 Years
2.00%/yr

Backup Energy

– Cooling

– Cooling

– Electricity

Grid Revenue

✓ Yes



✗ No

✓ Yes

Due to these limitations, energy storage in commercial and industrial sector (C&I) is <1% of total, ~1/6 of residential

Business model: Flexible revenue streams

Transaction options

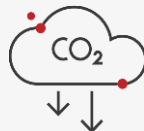
	Financial Value	Purchase Maximum Value Retain incentives*	Service Energy Storage-as-a-Service (ESaaS) \$0 Upfront, Monthly Fee
 <p>Data Centers</p>	Unlock 5-15% compute capacity <i>Revenue</i>	~2 yr payback ~50% IRR	Fixed Fee (>70% margin)
 <p>Commercial Buildings</p>	Save 30% of cooling costs + demand response revenue	3-4 yr payback 25-33% IRR	30-40% discount off utility price 10-15% saving on cooling costs

Both models generate high gross margins and long-term recurring revenue optimized via the Cirrus™ Software Platform

Operational Benefits



Backup cooling
N+1 chiller



CO2 reduction
200-300 mTon CO2/yr



EV charging
Up to 40% of spaces



LEED Certification
Up to 20 points

Serviceable Market (US only)

	Data Centers	Commercial Buildings
Potential Sites	3,000 ⁱ	250,000 ⁱⁱ
Capex ⁱⁱⁱ	\$24 Bn	\$134 Bn
ARR ⁱⁱⁱ	\$1 Bn	\$15 Bn

(i) 5-50 MW (colocations, small hyper-scalers, large enterprise) (Markets and Markets); (ii) Energy Information Agency, Commercial Buildings Energy Consumption Survey (CBECS); (iii) see financial model.

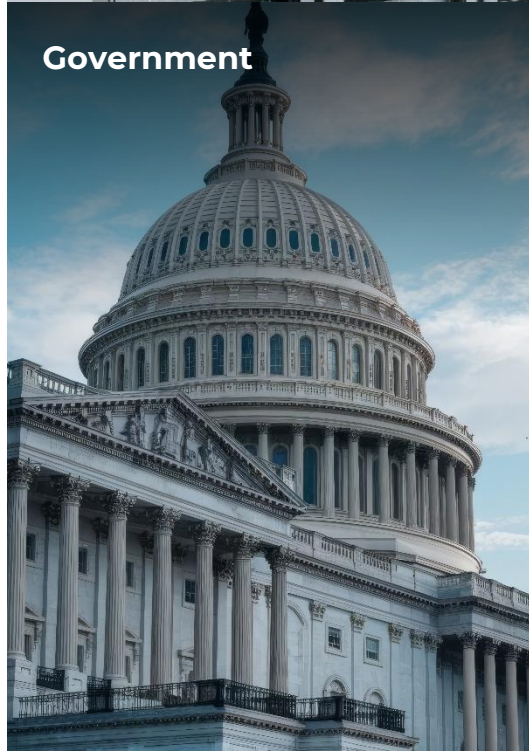
Data Centers



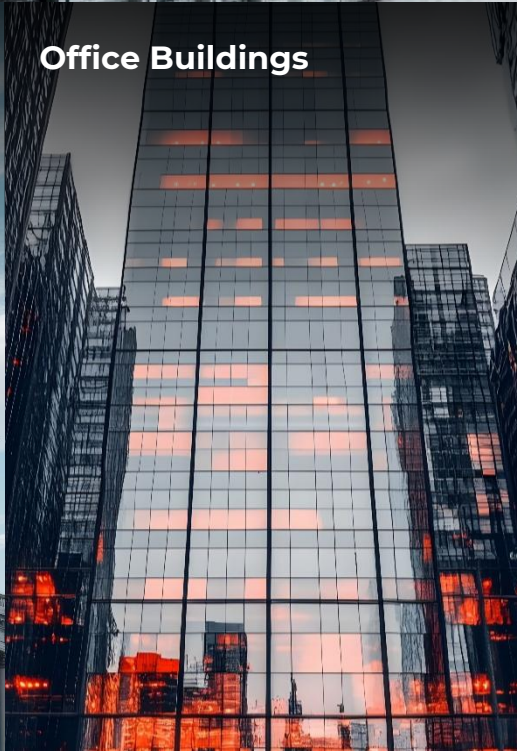
Hospitality



Government



Office Buildings



Higher Education



Traction: Proven Commercial Momentum, Top-Tier Customers

\$XXM

Contracted Backlog

For delivery in 2026:

- Atlanta International Airport
- Major utility HQ
- Residential Tower, South Calif

\$XXM

Booking in Process

Projected closing Q2'26

\$XXXM

Qualified Pipeline

Signed Development Agreements with major data centers operator, national commercial REITs and asset managers, +150 buildings

\$XXXM

Deployment Capital

Term sheets secured to fund ESaaS projects, anchored by a \$305M DOE conditional loan commitment.



the BEVERLY HILTON

Los Angeles, CA | Iconic building | Retrofit

1.2 MWh

300 kW load
reduction

300 kW

Peak Load
Shift

95%

Round Trip
Efficiency

20 Yrs

ESaaS
Contract



This innovative technology and partnership are the first of its kind in the US, and will enable us to reduce our carbon footprint while also saving on our energy bills

- Larry Green, Managing Director at Cain International

High Visibility

Click on the arrow to go to the article.

TIME

“Air Conditioning Has a Big Climate Impact. This New Technology Could be a Game Changer”



The Economist

“New tech can make air-conditioning less harmful to the planet. The key is energy efficiency.”



The Washington Post

“These buildings use batteries made of ice to stay cool and save money”



AP

“Data centers are very energy-hungry and about 30% to 40% of their energy use is for cooling ... that’s where a solution like ours could really help.”



WORLD ECONOMIC FORUM

“This start-up is using ice thermal energy storage to cool global warming”



KTLA 5



WIRED

“Cutting-Edge Technology Could Massively Reduce the Amount of Energy Used for Air Conditioning”



Mit Massachusetts Institute of Technology

“Your future air conditioner might act like a battery: New technologies store cooling power for when it’s needed most.”



Our Team: Management with scale DNA



Yoram Ashery

CEO

2 successful global tech launches (0-\$100M), 3 IPOs, 2 acquisitions



Yaron Ben Nun

Founder, CTO

Energy efficiency, big data & analytics, IAF Fighter Pilot



Ori Asscher

SVP Eng. & Ops

Hybrid thermal, IoT R&D & major retrofit projects leader



Nir Vaiman

CFO

Multiple CFO and financial leadership roles, M&As and turnarounds



Boaz Ur

Chief BD Officer

Demand response, oil-spill response, energy efficiency



Kobi Zohar

VP Core R&D & QA

Multidisciplinary R&D, quality and reliability leader



Doug Poffinbarger

VP, US Commercial Ops

Executive leadership in distributed resources and energy efficiency



Precious Gross

Director of Marketing

Executes full spectrum marketing, branding, and content operations





THANK YOU
nostromo.energy