



Company Presentation

SEPTEMBER 2023

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ABOUT Brenmiller Energy

Nasdaq: BNRG 🕂

We are a clean-tech company that develops, manufactures and sells our Thermal Energy Storage ("TES") solutions to decarbonize heat in industrial and power plants

\$100M
Capital Investments since inception to date
60
Employees
2012
Founded
Installed Projects
Strategie Partnerships

Strategic Partnerships

Equity & Finance Overview

(as of	September	1, 2023)
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Stock Price (Nasdaq: BNRG)	~\$.76
Market Capitalization	~\$15 M
Shares Outstanding	20.24 M
Trading Volume (90 Day Avg.)	94 K
Cash & Equivalents (06/30/23)	\$6.74 M





Decarbonization of heat is the lowhanging fruit of fighting climate change

GLOBAL ENERGY USE BY SECTOR

ELECTRICITY - 17%

Heat for industry, homes and commercial buildings is the largest energy end-use

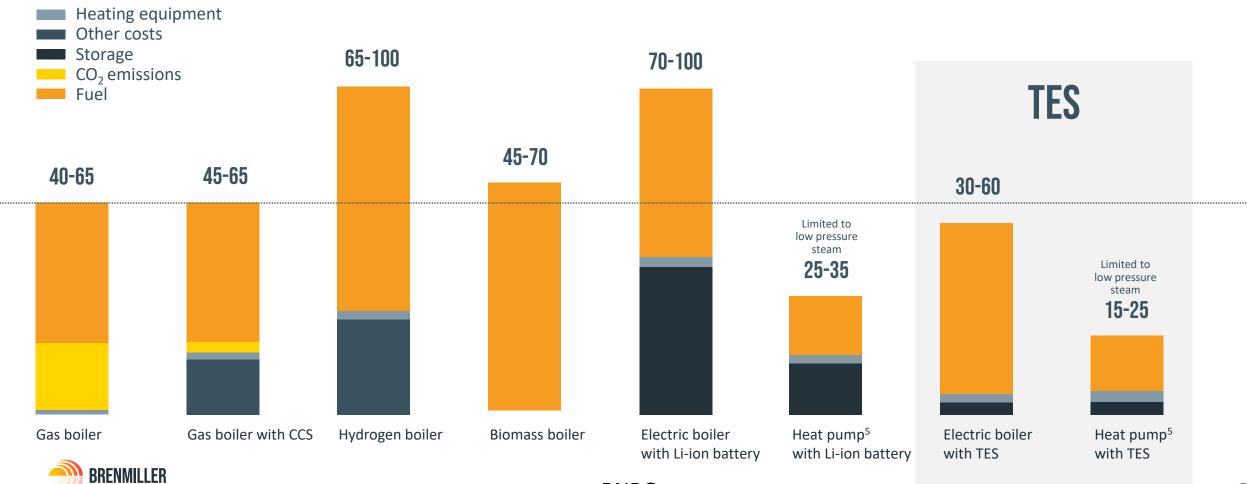
HEATING & COOLING - 51%

TRANSPORTATION - 32%



SOURCE: REN21 2022 % OF GLOBAL FINAL ENERGY USE BY SECTOR, COOLING AND TRANSPORT ELECTRICITY REALLOCATED

ACCORDING TO MCKINSEY, TES WITH ELECTRIC BOILERS OR HEAT PUMPS, IS THE MOST COMPETITIVE WAY TO REPLACE NATURAL GAS AND DECARBONIZE INDUSTRIAL PROCESSES



Source: McKinsey & Company Net Zero Heat report, Nov 2022 BNRG

REGULATORY SUPPORT

SUBSTANTIAL INCENTIVES AND AGGRESSIVE STEPS TO REDUCE GAS CONSUMPTION

Energy Storage

NEWS

PHES

July 24, 2023

By Jonathan Tourino

🌐 Europe 📓 Grid Scale 📳 Business, Policy

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Spain launches €280 million grants for

standalone energy storage, thermal and

The New York Times

Funding Notice: Industrial Demonstrations

Office of Clean Energy Demonstrations

Office of Clean Energy Demonstrations » Funding Notice: Industrial Demonstrations

Office: Office of Clean Energy Demonstrations FOA number: DE-FOA-0002936 Access the FOA: OCED eXCHANGE FOA Amount: Approximately \$6 Billion

Background Information

On March 8, 2023, the U.S. Department of Energy (DOE) Office of Clean Energy Demonstrat (OCED) issued a Funding Opportunity Announcement (FOA) for approximately \$6 billion to significantly reduce greenhouse gas emissions in energy-intensive industrial subsectors through transformational, commercial-scale demonstration projects. This FOA seeks to demonstrate the technical and commercial viability of industrial decarbonization approaches to promote widespread technology implementation and help the U.S. lead in low- and net-zero carbon manufacturing. DOE will provide financial assistance through cooperative agreements to fund up



New York to Ban Natural Gas, Including Stoves, in New Buildings

Gov. Kathy Hochul announced a state budget deal on Thursday with the first statewide ban on the use of natural gas in new buildings.



Electrifying Industrial Heat: A Trillion Euro Opportunity Hiding in Plain Sight

ndustrial heat is largely invisible to consumers but represents about 20% of global final energy demand and 10% of the world's CO₂ emissions. That is 2.5 times more than air and maritime transportation emissions combined and not far off those of road transportation. Switching from fossil-based heating systems to those directly powered by renewable electricity in industry can eliminate 100% of CO₂ and air pollutants emissions and reduce primary energy demand by up to 70%. It can also deliver a \in 1 Tn investment opportunity.

But things are starting to change. Barriers to adoption for industrial electric heating are becoming anachronistic. On one hand, geopolitics and carbon prices are making cheap, reliable fossil fuel supplies a thing of the past. As industry leaders and engineers inevitably embrace decarbonization, fossil fuels will tip into permanent decline. On the other, renewables are on a fast track to growth and affordability, which will lower the emission intensity of grids and simplify access to clean energy.



bGen ZERO POWER-TO-HEAT THERMAL ENERGY STORAGE

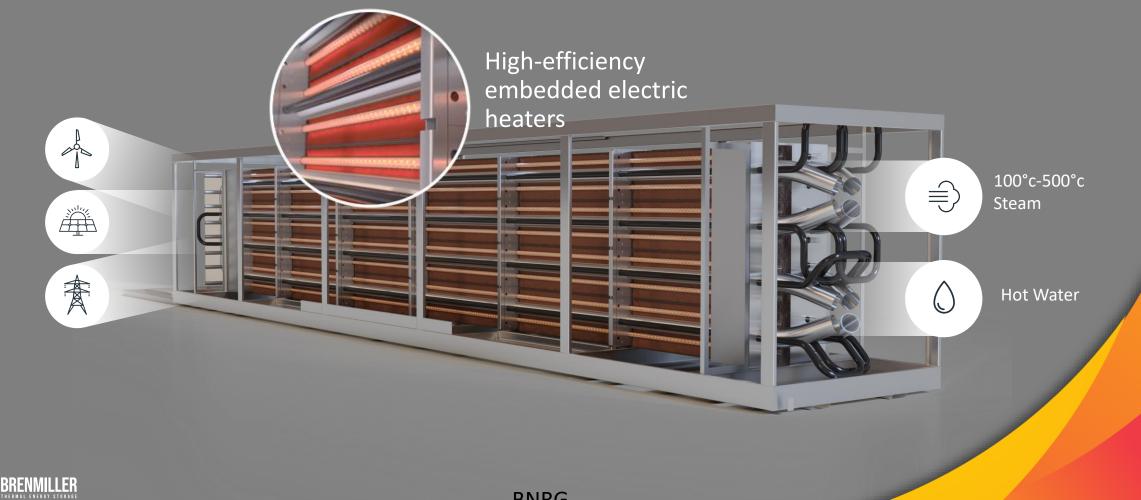






ELECTRIC HEATING & STORAGE IN ONE





BNRG

bGen ZERO Improved Charging Performance, Efficiency & Economics Designed for Grid Services





electricity for charging

second response rate for fast charging



charging efficiency



year-round availability



pre-fabricated components



power-to-heat cycle efficiency





FROM ROCKS TO THERMAL ENERGY STORAGE

- Rocks are crushed to small bits
- Thin metal cells ("bCells") are filled with the crushed rocks
- bCells are stacked into 40 ft. modules
- Electrical heaters are embedded
- Modules are assembled on-site to a structure
- Structure is insulated and connected to plant





WORLD'S FIRST GIGAFACTORY FOR Thermal Energy Storage



PRODUCTION PLANT: READY TO RAMP REVENUES

European Investment Bank

- European Investment Bank credit facility funding capital expenditure for automated factory and increasing production capacity
- Plant is designed to produce storage modules with an annual capacity of up to 4,000 MWh and will be able to support orders for 2023-2024
- Production capacity is to potentially support sales of up to \$200 million per year
- Factory is planned according to industry 4.0 standards, and would help the company to meet future demand and expected to increase profitability margins



BUSINESS MODEL #1 – EQUIPMENT SALE

SALE OF THERMAL ENERGY STORAGE SOLUTIONS TO INDUSTRIAL FACILITIES AND POWER PLANTS

- Gross profit target 30%
- After sale services up to 5% of equipment sale
 - Warranty
 - Maintenance
 - Optimization



BUSINESS MODEL #2 -Energy as a service

JV WITH LEADING GLOBAL CLEAN ENERGY UTILITIES TO PROVIDE CLEAN STEAM AND GRID SERVICES

- Brenmiller to provide the technology and integration
- Partner will provide the clean electricity and finance
- JV sells energy and grid balancing services

Customer benefits:

- No capital expenditures
- Reducing operational risk
- Green certificates and carbon emission savings

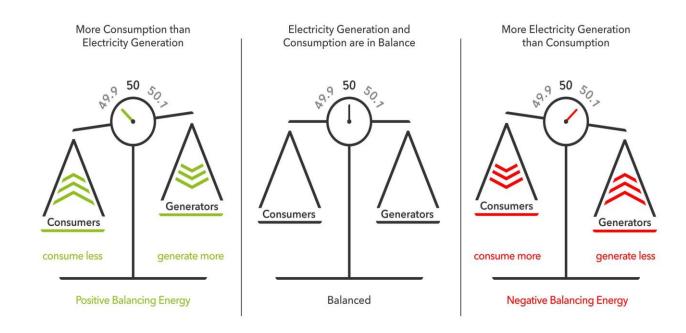




GRID SERVICES

SUBSTANTIAL REVENUE STREAMS FOR TES

- Grid flexibility and stabilization: Using excess renewable energy to generate heat
- **Demand-side management:** Balancing electricity demand by shifting it to the heat sector
- Utilization of curtailed energy: Preventing renewable energy waste

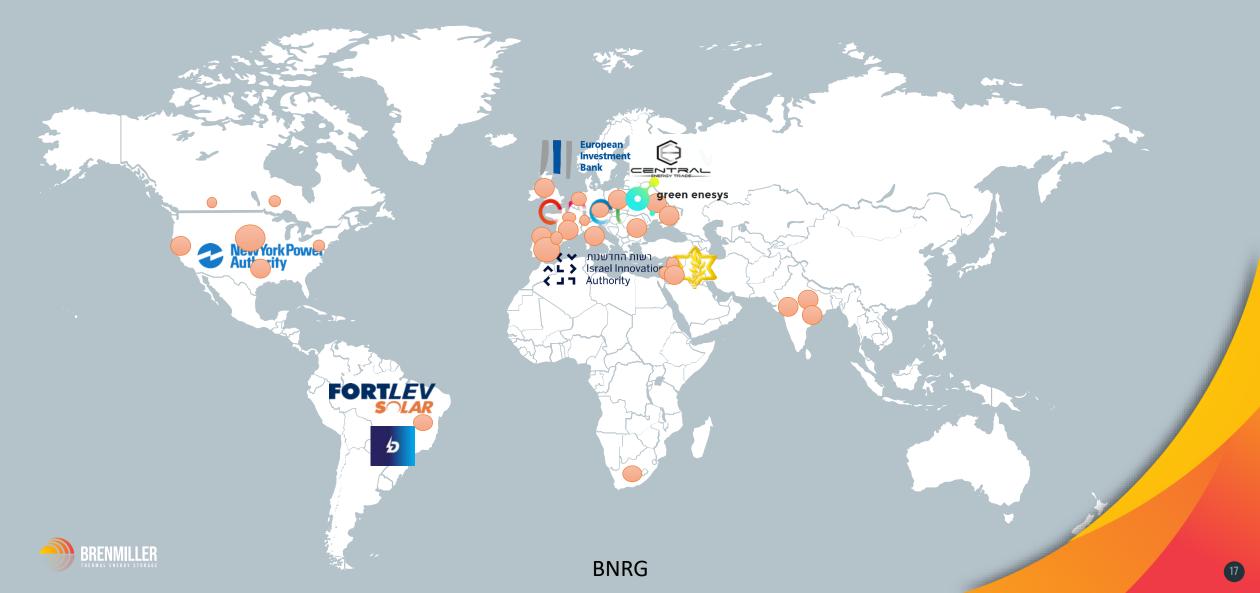


Balance between electricity generation and electricity consumption



BUILDING THE PIPELINE – FOCUS ON EUROPE AND US

• SALES PROCESS / PROJECT DEVELOPMENT





enel

LARGEST TES SYSTEM IN THE WORLD CONNECTED TO A GAS POWER PLANT

- Storage capacity of up to 24MWh
- Enables shifting energy from off-peak hours to peak hours improving revenues from energy sales
- The power plant will generate additional revenue streams by improved response times to the grid



Thermal Energy Storage (TES innovation serving the energy transition

MORE VIDEOS

0:03 / 2:02

🖼 🌣 YouTube

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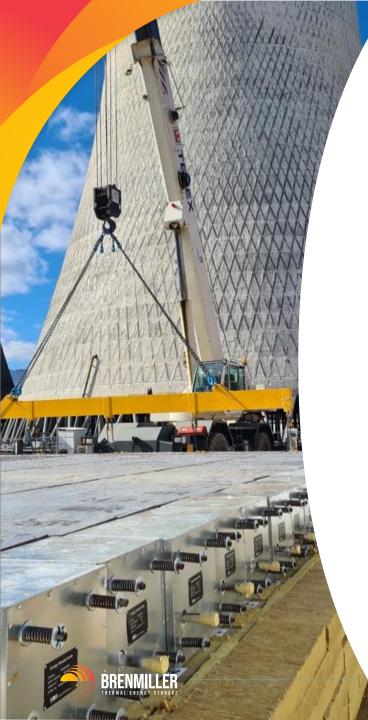
NEW PROJECTS & AGREEMENTS

Leading Beverages Manufacturer: 32 MWh bGen TES to replace fossil fuel

- One of Israel's largest beverage companies
- Partially owned by Heineken International B.V.
- Received approval for \$610 K grant from Israel Ministry of Environmental Protection

Wolfson Hospital: \$3.7 M equipment purchase approved

- Wolfson Hospital is a public medical center located near Tel Aviv in Holon, Israel
- Israeli Ministry of Finance has approved a budget of up \$3.7 M for Wolfson Hospital to procure TES equipment from Brenmiller
- Israeli Ministry of Finance estimates use of electric heat provided by bGen[™] ZERO has the potential to save Wolfson Hospital up to \$1.3 M annually & reduce the hospital's local carbon footprint by 3,900 tons per year
- Final agreement between Wolfson Hospital and Brenmiller is expected to be signed Q4 2023



JV FOCUSED ON RAMPING SALES IN EUROPE

9 Clean Energy Projects with 2 GWh Capacity

- Term sheet signed with European renewable energy developers Green Enesys Group and Viridi, leading companies that develop and deploy giga-scale clean energy projects worldwide
- JV will deliver bGen and bGen ZERO through an Energy-as-a-Service business model and provide project-level financing in high-growth markets, starting in Spain, Germany, and France
- To accelerate electrification by using renewable energies as a source and the bGen system to electrify and store heat with the aim of achieving full decarbonization
- As of the signing of the Term Sheet, 9 potential clean energy projects with a total of approximately 2 GWh capacity have been identified



INVESTMENT CATALYSTS

- \$63 B addressable market—Patented technology addresses tremendous demand for efficient, clean energy storage
- As renewable energy generation increases, the need for a reliable method to store clean energy is a major challenge facing industry and regulators
- BNRG's award-winning tech is well established—Contracts with customers including New York Power Authority, Enel, and Fortlev
- Ready for revenue ramp—Production capacity of manufacturing plant to potentially support sales of up to \$200 M per year
- Revenue models include direct equipment sales and Energy as a Service recurring revenues



TO FIGHT CLIMATE CHANGE – Thermal energy storage is crucial

The bGen[™] ZERO

• Enables electrification of heat

• Enables the use of intermittent RE sources to provide stable reliable heat

• Utilizes and support the electricity grid





THANK YOU