

DISCLAIMER

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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

4

Installed Projects

4

Strategic Partnerships



GLOBAL ENERGY USE BY SECTOR

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



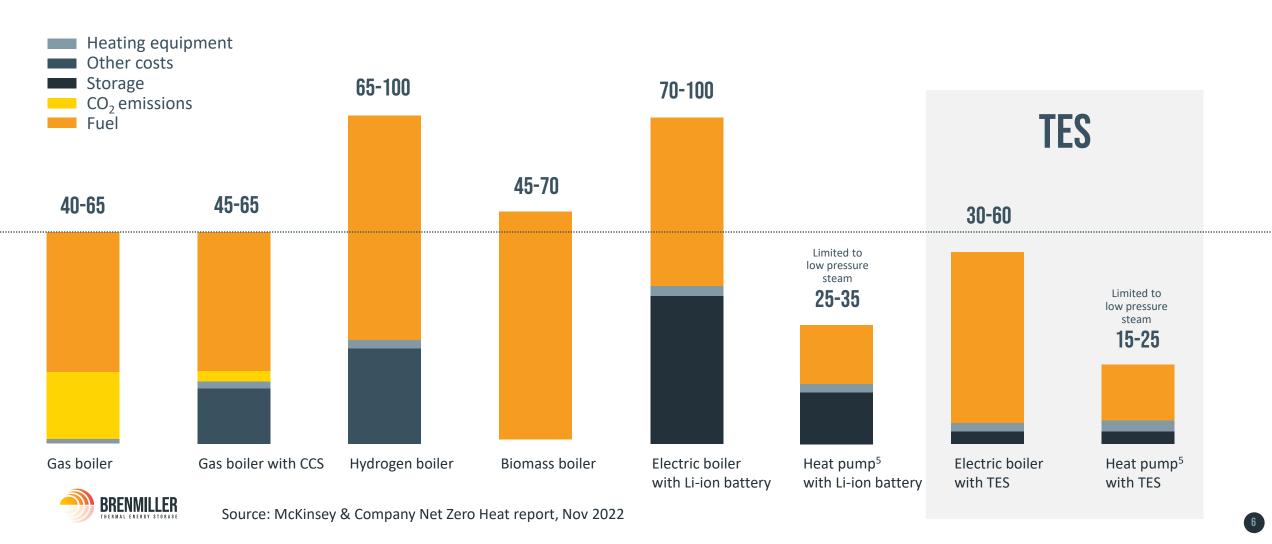
ELECTRICITY - 17%

HEATING & COOLING - 51%

TRANSPORTATION - 32%



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



REGULATORY SUPPORT

SUBSTANTIAL INCENTIVES AND AGGRESSIVE STEPS TO REDUCE GAS CONSUMPTION

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





Spain launches €280 million grants for standalone energy storage, thermal and PHES

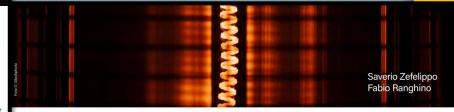
By Jonathan Tourino

July 24, 2023

Europe Grid Scale I Business, Police

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 € 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





Zero emissions



Modular 10MWh-1,000MWh



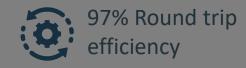
Unlimited Cycles 30+ years

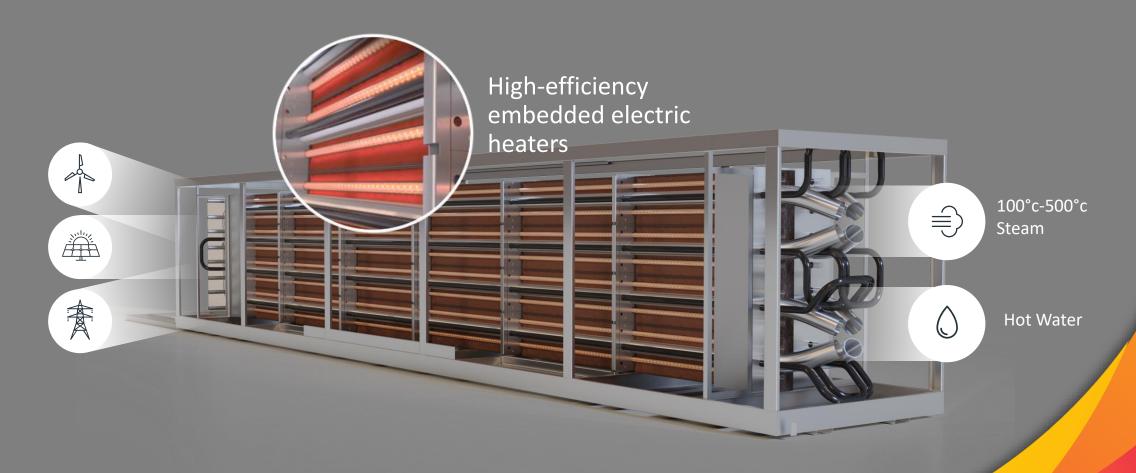


Low-Cost materials Simple O&M



ELECTRIC HEATING & STORAGE IN ONE







bGen ZERO

IMPROVED CHARGING PERFORMANCE DESIGNED FOR GRID SERVICES

100%

Electricity for charging

40%

Increase in charging power*



Second response rate for fast charging





bGen ZERO

IMPROVED EFFICIENCY

34%

Improvement in energy density*

33%

Reduction in Heat loss*

99%

Charging Efficiency

97%

Power-to-Heat Cycle efficiency



bGen ZERO IMPROVED ECONOMICS

40%

Improvement in discharge power*

98%

Year-round Availability 90%

Pre-fabricated components





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 in to 12 meters 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 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





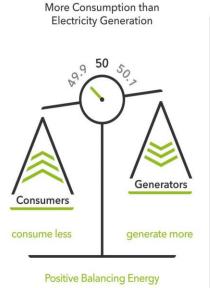


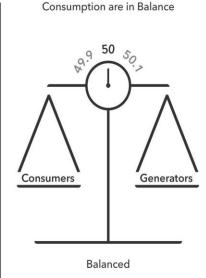
GRID SERVICES

SUBSTANTIAL REVENUE STREAMS FOR TES

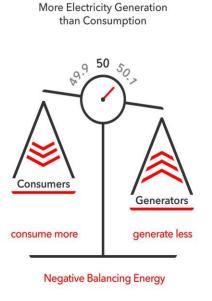
- Grid flexibility and stabilization:
 Using excess renewable energy to generate heat
- Demand-side management:
 Balancing electricity demand by shifting it to the heat sector
- Utilization of curtailed energy:
 Preventing renewable energy
 waste

Balance between electricity generation and electricity consumption

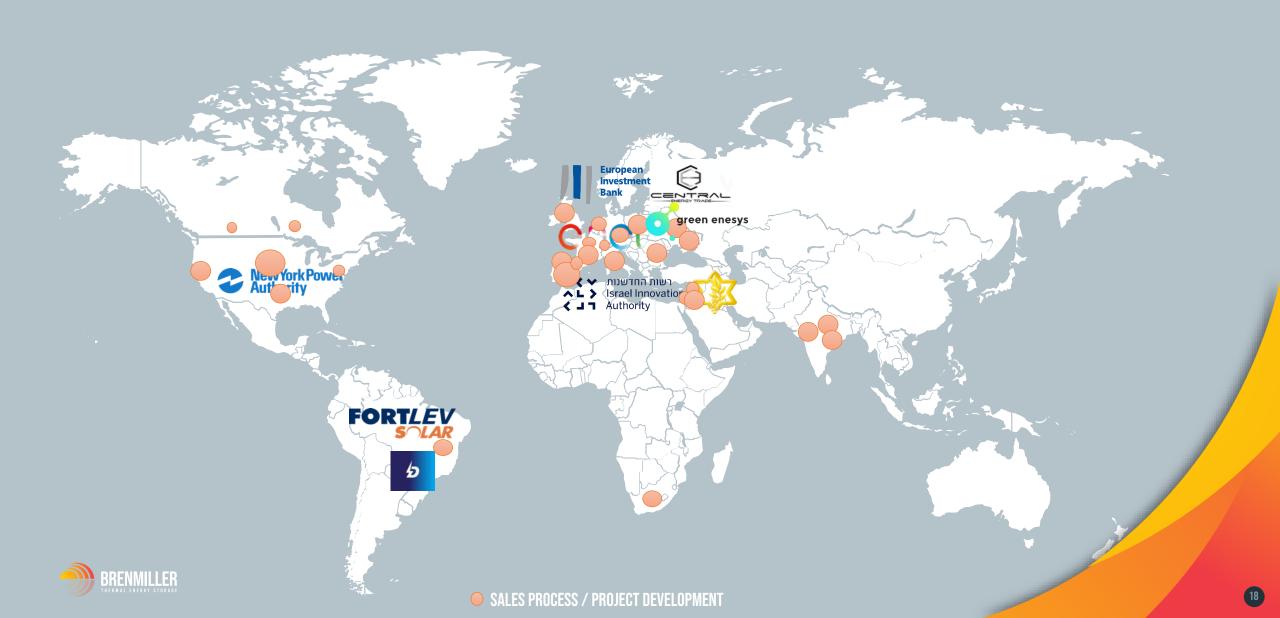




Electricity Generation and



BUILDING THE PIPELINE – FOCUS ON EUROPE AND US





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







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

Global Energy Utility: 9 Clean Energy with 2 GWh Capacity

- Non-binding term sheet signed with one of the world's largest producers of clean energy and Green Enesys Group
- To jointly identify, build, and accelerate electrification by using renewable energies and Brenmiller's TES system to electrify heat and achieve full decarbonization



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

