

# **COMPANY OVERVIEW**

September 2024



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#### ABOUT Brenmiller Energy Ltd.

Nasdaq listed: BNRG 🕂

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





### Letter from the CEO

#### Dear Shareholders,

I am pleased to provide you with an update on Brenmiller's recent financial and operational achievements as of September 2024. Our progress is a testament to our commitment to financial sustainability and long-term growth, and we are excited to share several key milestones that underscore our continued momentum.

First, our project opportunity pipeline remains strong, with a potential value of up to \$440 million. This pipeline is crucial to the growth of our bGen<sup>™</sup> thermal energy storage solutions market, and we are confident in our ability to successfully mature and execute these opportunities.

Recent agreements highlight the strides we are making in recurring revenue projects, including:

- Partner in Pet Food (PPF), Hungary: A 30 MWh bGen<sup>™</sup> system designed to reduce gas usage by 25-30%, while also providing low-carbon steam and grid balancing services.
- Tempo Beverages, Israel: A 32 MWh installation projected to save \$7.5 million over 15 years, while reducing carbon emissions by 6,200 tons annually.
- Wolfson Hospital, Israel: A \$3.55 million project, supported by a \$450,000 grant, expected to generate \$1.3 million in annual savings and reduce emissions by 3,900 tons.

On the financial front, we secured a \$1.05 million private placement on August 2, 2024, at a 52% premium, with the potential for an additional \$1 million investment if our shares reach \$2.50 within the next 12 months. Additionally, on August 30, 2024, we raised approximately \$2.0 million in gross proceeds through our At-the-Market (ATM) equity offering facility, selling 914,000 ordinary shares at an average price of \$2.19 per share. As a result, Brenmiller now has 7,094,791 ordinary shares issued and outstanding.

Since the start of 2024, the Company has raised approximately \$10.8 million in gross proceeds, which could reach \$11.8 million subject to the closure of the private placement. We are also investing significant resources into investor relations campaigns to increase visibility within the investor community. The marked increase in daily trading volume is evidence that these efforts are gaining traction, and we remain optimistic that this progress will be reflected in our share price as we continue to pursue new business opportunities.

We are also excited to announce a groundbreaking development in Al data center cooling with our bGen<sup>M</sup> Cool solution. This innovation targets the rising demand for Cold Thermal Energy Storage (CTES) and positions Brenmiller to capitalize on the decarbonization goals and financial opportunities within the rapidly expanding Al sector.

From a financial perspective, our balance are improving. As of June 30, 2024, cash and equivalents have grown to \$6.99 million. Additionally, we have reduced total liabilities by 4% and increased shareholders' equity by 127%. Our efforts to streamline operations have paid off, with our net loss narrowing by 70% to \$1.58 million compared to the same period last year, largely due to increased financial income.

Looking ahead, we are on track to have our gigafactory fully operational by the end of 2024, with an annual production capacity of up to 4 GWh of bGen<sup>M</sup> systems. This will significantly enhance our ability to meet growing market demand and drive future growth.

Thank you for your continued support as we strive to build long-term value through innovation and execution.

Sincerely,

Avi Brenmiller Chairman & CEO



## 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 12 meter modules



Modules are assembled on-site to a structure

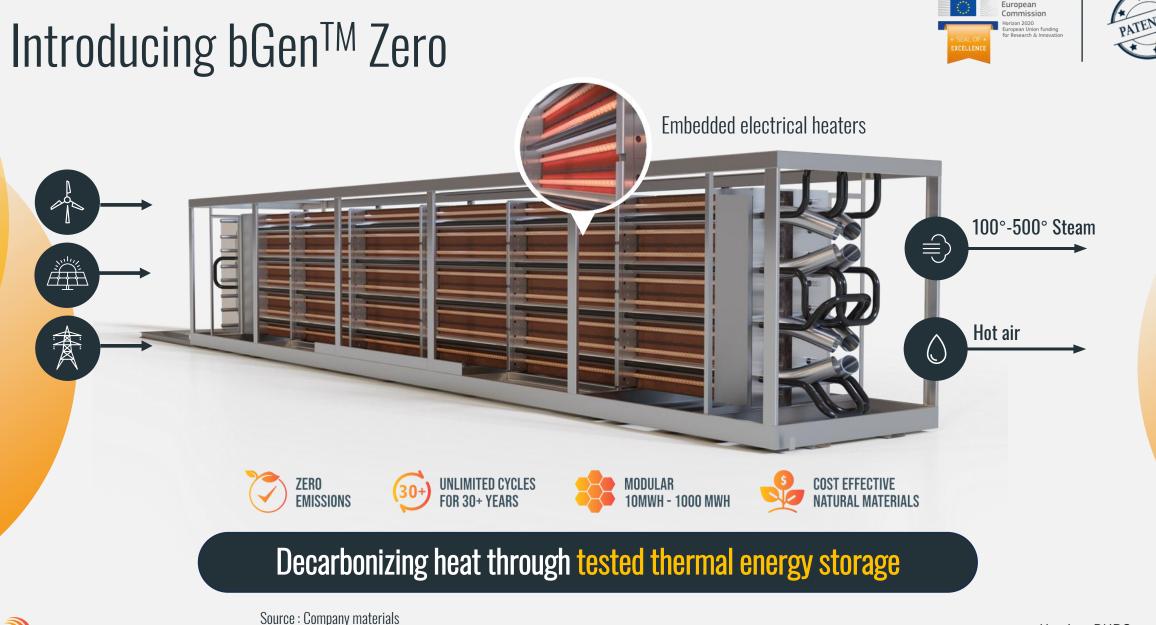
Electrical heaters are embedded

Structure is insulated and connected to plant





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## **Brenmiller Overview**







Commercial opportunities



Steam capability



TA

\$118m+ Capital invested to date





4 GWh Manufacturing capacity (at full scale)

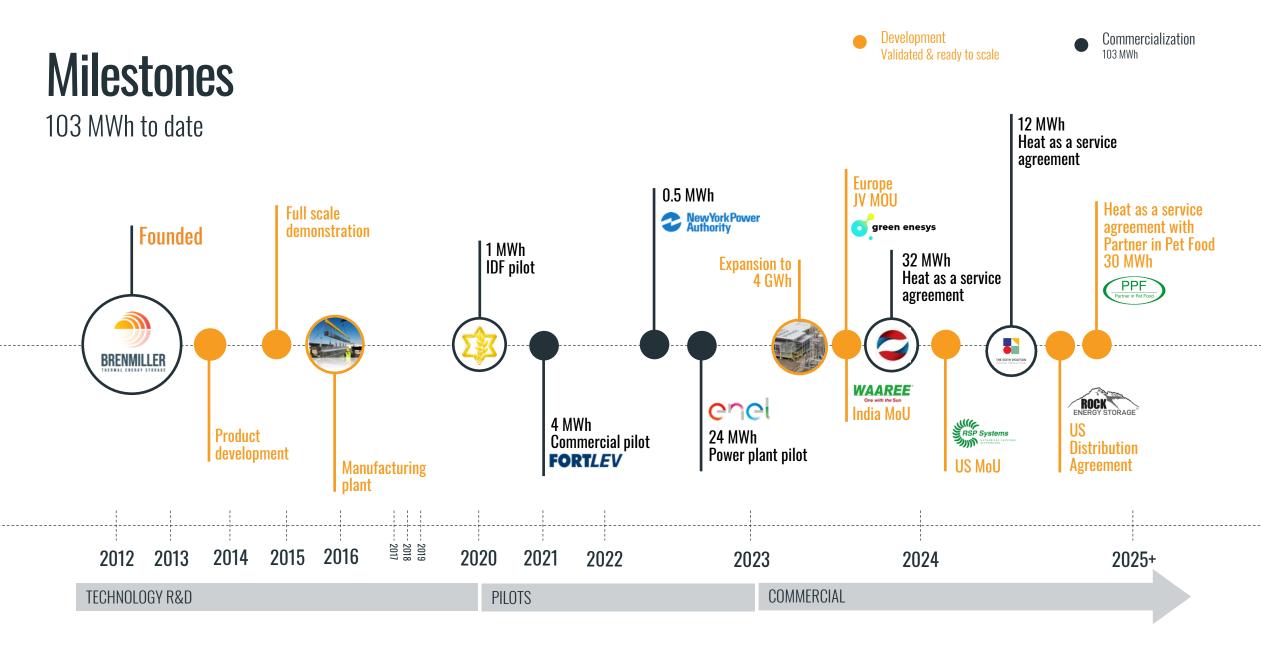
~97% Round trip efficiency<sup>1</sup>





Source : Company materials & website, <sup>1</sup> Round trip efficiency = total energy output / total energy input, <sup>2</sup> SystemIQ – Global ETES Opportunity







## Key Points



#### Industry is the largest emitter of GHG

- 11 GT CO<sub>2</sub> annually from industrial heat<sup>1</sup>
- 25% of total global GHG emissions from heat<sup>2</sup>

#### "Everything is going electric"<sup>3</sup>

- Renewable electricity now cheaper than fossil fuels
- Power to heat efficiency ~97%

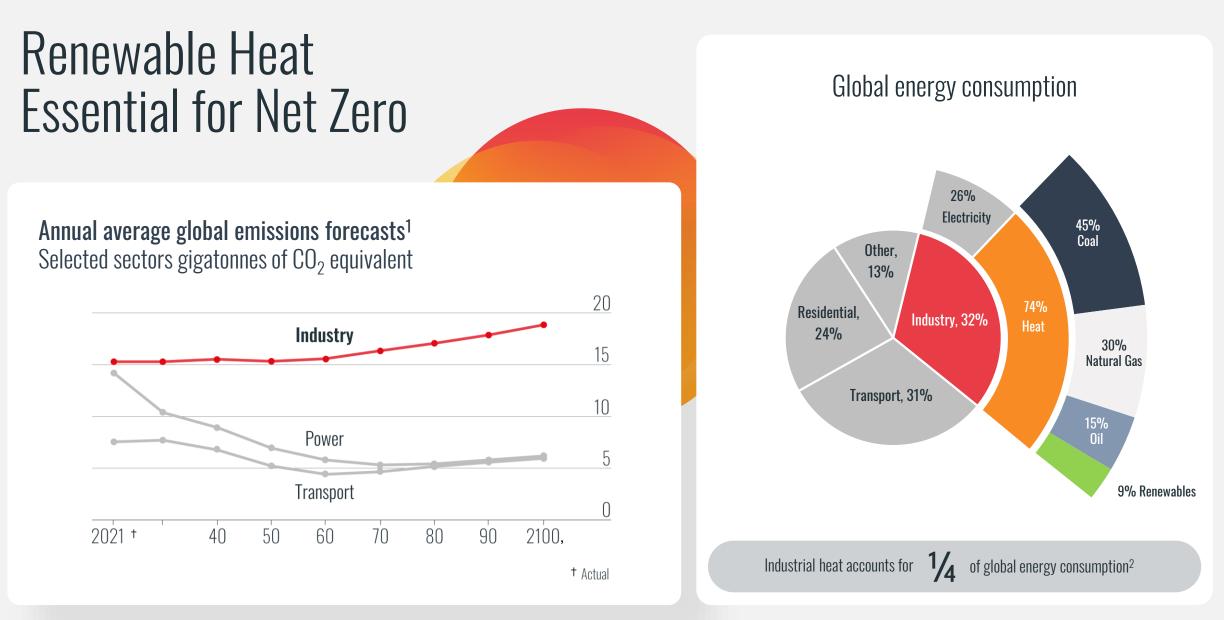
#### Thermal Energy Storage ("TES") = flexibility for grid

- TES charges when convenient for wind & solar
- Minimize curtailment & provide reliable heat

#### Brenmiller is a leader in deployed TES

- 103 MWh in operation & construction
- Unique steam-to-steam ability for power plants

BRENMILLER THERMAL ENERGY STORAGE Source: Company materials. Industry as defined by the International Energy Agency (IEA). <sup>1</sup>Rhodium Group & IEA. <sup>2</sup>International Energy Agency, Renewable energy for industry, 2017. <sup>3</sup>IEA, Electrification across the industry sector October 2021.



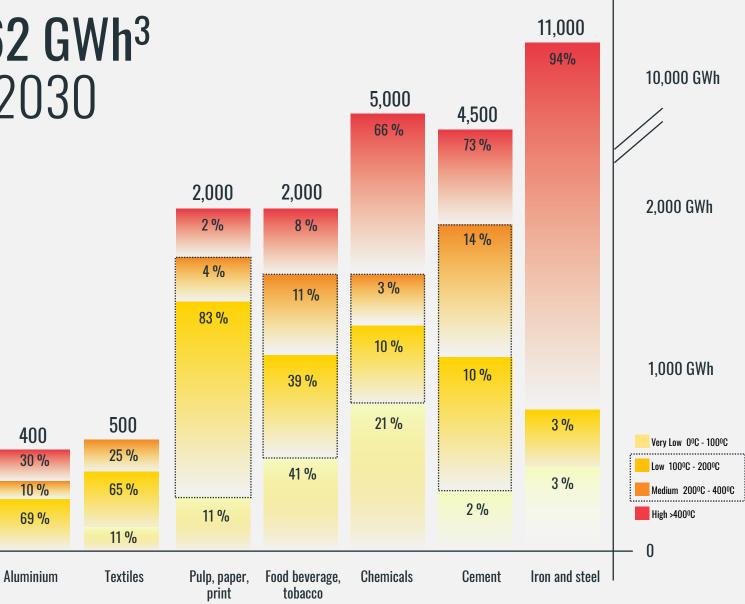


Sources: <sup>1</sup>Rhodium Group; <sup>2</sup>International Energy Agency, Renewable energy for industry, 2017

### Brenmiller Targeting **62 GWh<sup>3</sup>** Obtainable Market by 2030

<b>25,400</b>	TWh <sup>1</sup>
<b>3,10</b> SAM	0 TWh <sup>2</sup>
62 GWh <sup>3</sup> Som Brenmiller	

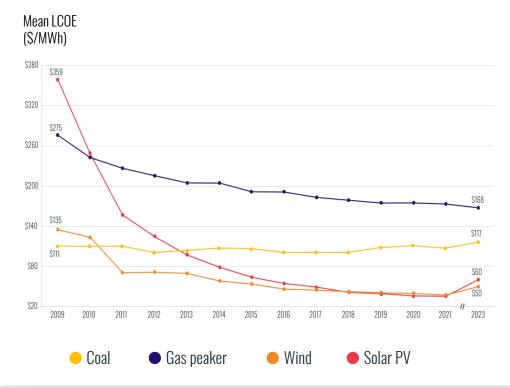
Source: SystemIQ – Global ETES Opportunity, Market sizing boxes are illustrative, not to scale;<sup>1</sup>Based on total TWh heat demand in 2030; <sup>2</sup>Based on first wave retrofit applications between 200-400C according to SystemIQ;<sup>3</sup>Assumes 6,000 operating hours, 4:1 discharge capacity ratio, and 3% market share.





## Industrial Heat from Renewables is Viable

#### Cost of power for heat<sup>1</sup>



#### Transition from fossil fuels to renewables

- Fossil fuels provide 90% of industrial heat today<sup>2</sup>
- Power to heat TES is proven & able to scale to industrial level<sup>3</sup>
- Renewable Energy costs are more predictable and provide energy security<sup>4</sup>
- Industrial users looking for more cost-effective solutions<sup>3</sup>
- Less expensive, on demand & grid friendly<sup>1</sup>
- EU considering transitioning to 100% green electricity from grid<sup>5</sup>

Burning fossil fuels for electricity & heat is becoming more & more economically and environmentally unfeasible

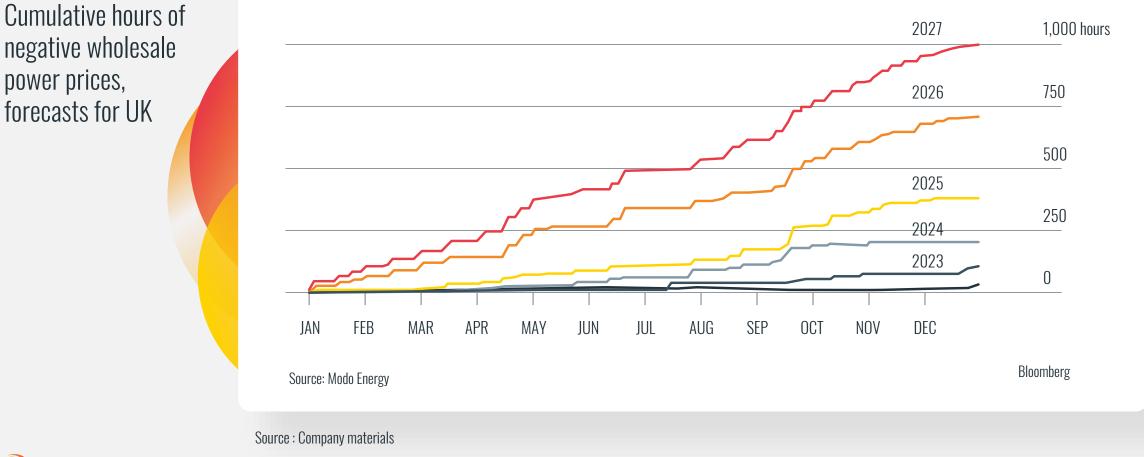
Sources: <sup>1</sup>Lazard Levelized Cost of Energy Analysis, Version 16.0; <sup>2</sup>International Energy Agency, Renewable energy for industry, 2017; <sup>3</sup>. Based on global announced projects and membership of Renewable Thermal Collaborative & LDES Council, <sup>4</sup>WattCrop, 5. Innovation Fund program.

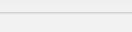


## Charging at Cumulative Negative Prices is Becoming More Feasible

Cumulative Negative Electricity Prices Will Increase Tenfold in the Years to Come

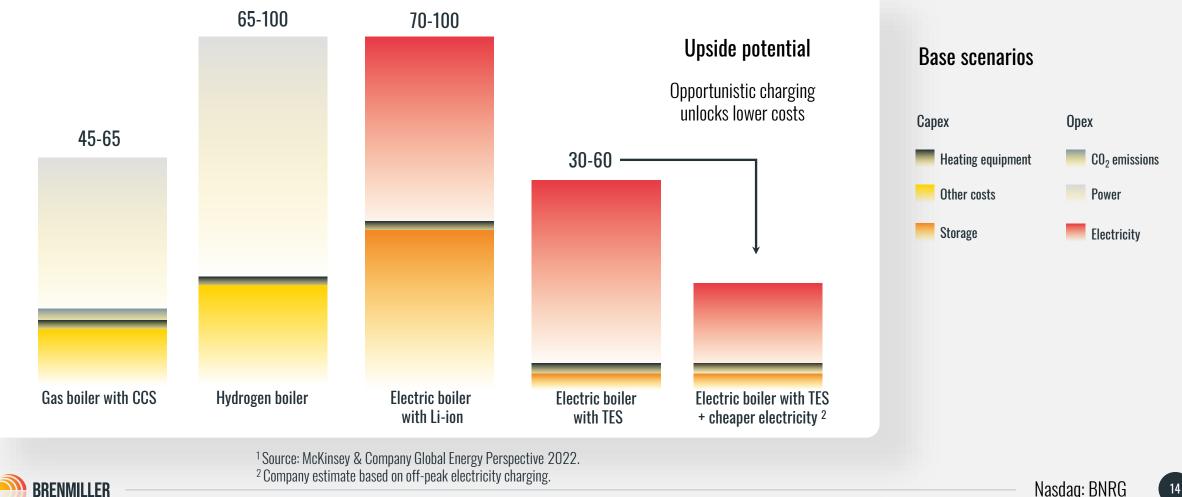
BRENMILLER





## Renewables + TES is Competitive Now

Levelized cost of heat for selected technologies, \$/MWh<sup>1</sup>



## **Business Models**

Diversified income stream from multiple services, tailored to customer



**Equipment Sales** One-off sale with O&M contract

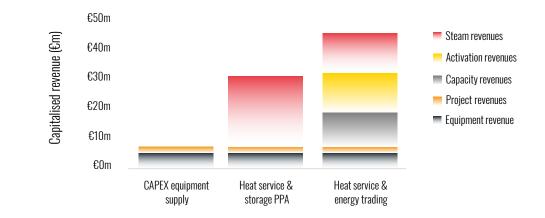


Heat-as-a-service ("HaaS") Supply clean heat at agreed price



Grid Services & Capacity Payments Take excess electricity from grid Frequency and Load Shifting Support

#### **Illustrative 75 MWh project economics**<sup>1</sup> Initial investment unlocks diverse capitalized revenue streams



Example in a European Country: 75MWh Project Capitalized recurring revenue stream for 15-year PPA



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## **Tested Manufacturing Approach**

Market leader in live production capacity, operational capability edge attracting clients

#### World's first TES gigafactory

4 GWh manufacturing capacity at full scale, supported by EIB funding



Tested approach creates template to launch localized manufacturing in key geographies







## **Go-to-Market Strategy**



- Cost advantage over incumbent
- Grid service revenue streams
- Emission targets & carbon taxes

#### **Channel partners opening key markets**





- 100-600°C temperature need
- Economically viable today
- Short sales cycles

#### Flexible approach unlocks multiple sectors



- ESG alignment drives demand today
- Significant expansion potential
- Small pilots unlock global scale

#### Ongoing dialogue with global brands



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## Collaborations

Collaborator	Geography	Collaboration scope	Traction	
<b>Cincl</b> Global gas & electricity distributor	*** *** **	Decarbonize industrial heat across Enel client base	24 MWh project	
<b>FORTLEV</b> SOLAR Distributor of photovoltaic products		Brazil & Colombia	1 MWh biomass to steam project	E CONTRACTOR O CON
Green energy project developers	*** *** **	Spanish JV to explore EU opportunities	In discussions for 2.5 GWh opportunities	
<b>WAAREE</b> One with the Sun Leading solar panel manufacturer		Signed MoU to explore Indian opportunities	In discussions for 200 MWh opportunities	

Brenmiller is focusing on product-led approach, channel partners to handle project integration & operation



Source : Company materials

### **Commercial Projects**

Under Development





★ Heineken<sup>®</sup>
★ Tempo

**30 MWh** TES for Pet Food Factory

PPF

32 MWh

TES for beverage factory

**12 MWh** Off-peak electricity TES for hospital

THE EDITH WOLFSON



**Commercial Pilots** 



**New York Power** Authority

**24 MWh** Thermal power plant TES **1 MWh** Hybrid charging TES

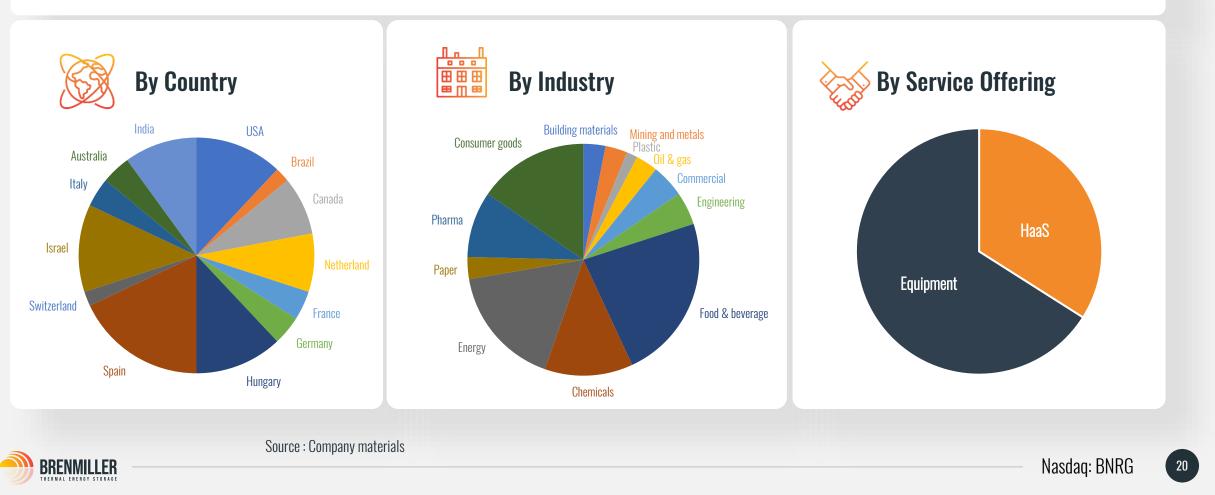


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### Commercial Opportunities of ~6 GWh

Attracted extensive commercial opportunity interest, diversified across geographies and services

Commercial Opportunities for 49 Projects Representing ~ \$440 Million in Potential Value in 12 Industries Across 13 Countries



#### Pursuing Attractive Heat-as-a-Service European Opportunities





## Company Catalysts

<u>\$63B addressable</u> <u>market<sup>1</sup></u> - Patented technology addresses tremendous demand for efficient, clean energy storage As renewable energy generation increases, the <u>need for a reliable</u> <u>method to store clean</u> <u>energy is a major</u> <u>challenge</u> facing industry and regulators

2

BNRG is an industry leader with 103MWh in operation and construction with well established awardwinning tech — Contracts with customers including New York Power Authority and Enel

3

Ready for revenue ramp - Production capacity of manufacturing plant to potentially support sales of up to \$200M per year for ~\$440M commercial opportunities

4

Revenue models include direct equipment sales and Heat as a Service <u>recurring revenues</u>

5



<sup>1</sup> SystemIQ – Global ETES Opportunity, Market sizing boxes are illustrative, not to scale, assumes 6,000 operating hours, 4:1 discharge capacity ratio, and 3% market share.

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#### Brenmiller Expands bGen™ Capabilities for Al Data Center Cooling Applications

Proposed new line of business

#### Introducing bGen<sup>TM</sup> Cool

#### > New Opportunity in Al Data Center Cooling

- Brenmiller targets significant decarbonization and financial potential in the data center value chain, driven by the rapid growth of Al computing.
- Estimates project a 160% increase in data center power demand by 2030.

#### ➤ bGen<sup>™</sup> Technology Adaptation

- Brenmiller anticipates minimal investment to modify its existing bGen<sup>™</sup> thermal battery technology to meet data center cooling needs.
- Development of Cold Thermal Energy Storage (CTES) solution, named bGen<sup>™</sup> Cool, aimed at providing cost-efficient, energy-saving cooling.

#### > Data Center Decarbonization

- The modular, prefabricated design of bGen<sup>™</sup> aligns with industry trends, offering fast-charging, 24/7 operational reliability, and the ability to alleviate grid strain.
- Major tech companies like Apple, Google, and Meta are key potential beneficiaries.
- > Market Potential
  - Ongoing bGen<sup>™</sup> production for power-to-heat applications presents commercial opportunities valued up to \$500 million.



### Leading team



Avi Brenmiller Chairman & CEO

#### **Board of Directors**



Zvi Joseph Independent director



**Chen Franco-Yehuda** 

Independent director

**Nir Brenmiller** 

**Director & COO** 



**Nava Swersky Sofer** 

Independent director



Miki Korner Independent director

#### **Operational team**

**Ofir Zimmerman** 

CFO



**Doron Brenmiller** 

**Director & CBO** 







Eli Lipman VP R&D



**Corporate Secretary** 

Orin Shefler General Counsel & H





Ronit Sade Head of EHS

Rami Ezer



**Gilad Walker** 

**VP Projects** 

**VP Engineering** 





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# Thank You