What are we all looking for in Storage?

- Cost
- Durable
- Modular
- Clean
Thermal Storage Based Generation

Brenmiller Energy
Decades Of Experience
Over €1B in projects
Founded in 2012
2017 Publicly traded company
Our Solution

IP patented configuration – combining 3 key elements:

Thermal Storage  Heat Exchanger  Steam Generator
How Does it works

Electricity

Steam

Heat

Electricity

Hot water

Cold water
**Key Advantages**

- **Hybrid**
  Connects different energy sources

- **Modular**
  From industrial to large scale power plants

- **Performance**
  Unlimited cycles with minimal daily losses

- **Clean**
  Environmentally friendly materials (crushed rocks)

- **Lifetime**
  30+ Years

- **Economic**
  Lower investment with kWhth < $1 cent
Applications

Renewables Integration  Grid Support  Energy Efficiency
Renewables Integration - Rotem1 Project

- Combining solar thermal, solar PV and natural gas
- 24 hours daily peak production
- 16 hours of storage capacity
- construction started in Q1 2018
Grid Support

- Low capital investment
- Durability
- No degradation
- Clean & Safe
- Modular

Diagram:
- Grid connection to a power source
- Electricity flow to a steam turbine
- Steam flow from the turbine

BRENMILLER ENERGY
Energy Efficiency – Storage based DER

Key Advantages

1. Higher efficiency
2. Energy independence
3. Reducing Emissions
4. Gas peak shaving
Joint project with the New York Power Authority (NYPAA)

- Approved and funded by the DOE
- A storage-based CHP unit at a local SUNY campus
- Off grid solution: taking it off the central heating system
- Expected commissioning: Summer of 2019

Storage Based CHP Project in the US
bGen™
THERMAL STORAGE GENERATION UNIT
RENWABLE INTEGRATION • ENERGY EFFICIENCY • LOAD SHIFTING

Disclaimer:
Each recipient of this factsheet declares and agrees that all the information contained within is strictly confidential and they will neither pass on this information themselves nor through a third party, without the prior written consent of Brenmiller Energy. This factsheet is unbinding and provisional and does not include a legally binding obligation regarding the disposal or acquisition of shares in the business or other parts of the assets for Brenmiller Energy.

Energy When **YOU** Need It