



HeatVentors
The cool way to store heat!

Revolution in thermal energy storage

– **save 20-50% energy** with **HeatTank** intelligent thermal battery



HeatVentors

The cool way to store heat!

Our intelligent thermal battery can reduce storage volume by 90% & **save at least 20-50% energy** with a payback time between 3-5 years.

Save space

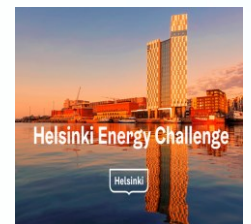
Save energy

Save money

19
Awards



FALLING
WALLS
LAB



Challenge

How to save the **most effectively** and **cost efficiently** as much energy as possible at the **cheapest price/period?**

Safe

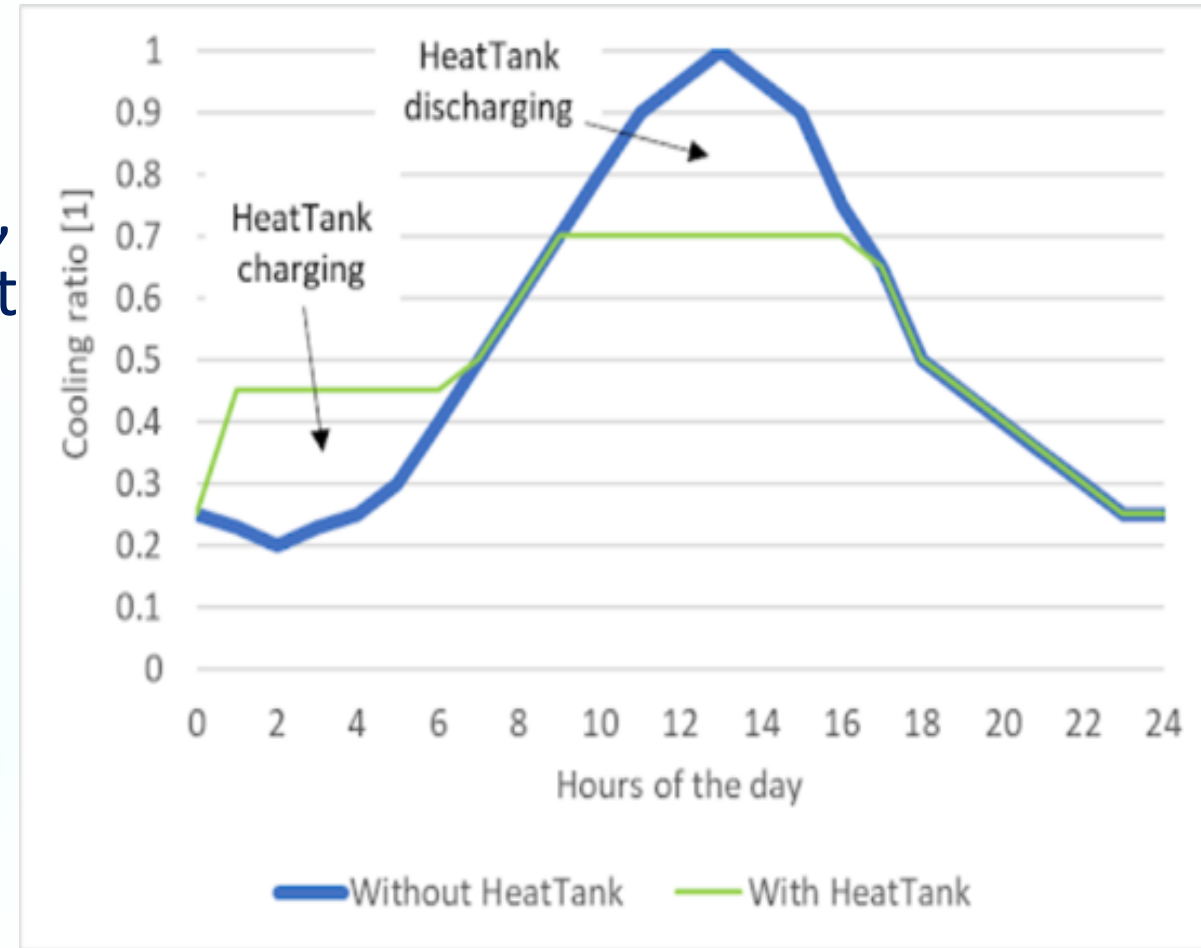
Economic

Sustainable



HeatTank

- Stores **cold** or **warm** thermal energy, when it can be produced by the least electricity/gas/etc. investment
- Use it, when the production of the same amount of thermal energy would be the most inefficient or expensive



In pra

DATA CENTER

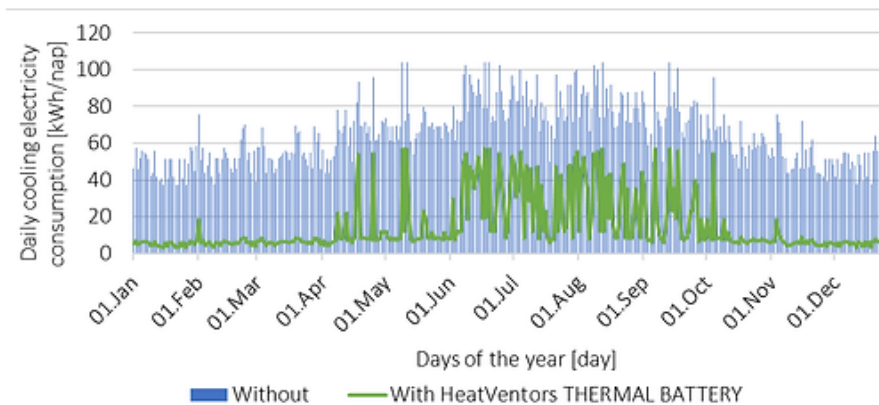
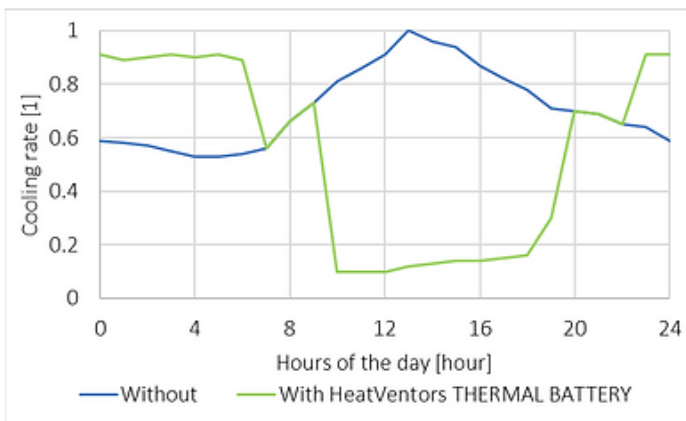
Budapest | Hungary | EU

Latitude 40.7

2019

SAVING RESULTS

18.400 **57.8%**
kWh/year saved ratio



DATA CENTER

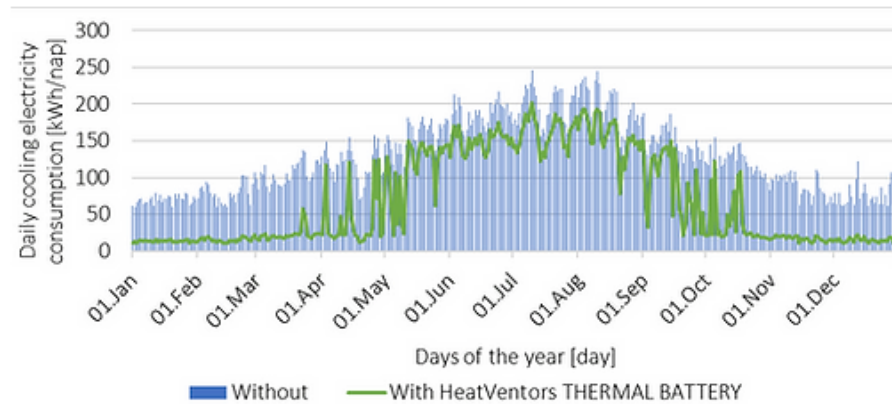
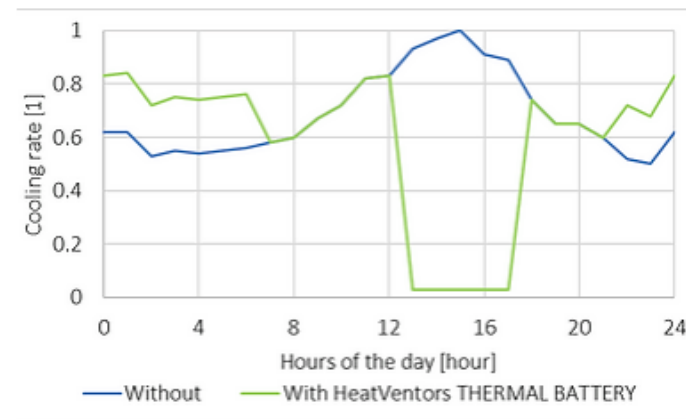
Budapest | Hungary | EU

Latitude 40.7

2020

SAVING RESULTS

21.900 **46.5%**
kWh/year saved ratio



Energy optimization

Hungary

Italy
Portugal
France

Cooling of
servers

Cooling of
office
buildings

Cooling of
hotels

Cooling of
shopping
centers

Gas engine
heat
recuperator

District
cooling
systems



Average payback time: 3.5 years

Behind the scenes

Heat exchanger
+ insulated box



Phase Change Materials
(PCM)



Control system



Product attributes

Model	HeatTank 25-1	HeatTank 25-2	HeatTank 50-1	HeatTank 50-2
Capacity [kWh]	20-35	20-35	45-65	45-65
Peak performance [kW]	100	100	200	200
External volume [m3]	0,91	1,05	1,77	1,94
PCM volume [m3]	0,48	0,55	0,91	0,98
Height with insulation [mm]	1436	1436	1960	1960
Width with insulation [mm]	648	745	770	770
Lngh. with insulation [mm]	979	979	1175	1286
Heat exch. circuits [nr.]	1	2	1	2
Connections ["]	28	28	42	42
Empty weight [kg]	275	295	485	515
Total weight [kg]	650-900	700-980	1100-1450	1150-1700

Limitless capacity

Scalable elements

Plug & Play technology

GIGA BATTERY OPTIONS

FOR INDUSTRIAL UTILIZATION

1,2 MWh

Capacity



Benefits

→ The **most efficiently and cheaply** produced energy is stored and then used in case of greater needs, thus achieving significant energy savings.

20-30%
energy
savings

Economic

3.5 year ROI

Operational
safety

Safe

25 yrs
lifetime

Green
Technology

Sustainable

Less CO2
emissions



References



EON - Hungary – Gas engine heat recovery



MVM NET - Hungary – Data center cooling



Engie - France – District heating



Sierra - Portugal – Shopping mall cooling



Alperia - Italy – District heating



Ámei - Hungary – Office building cooling



Our other partners:

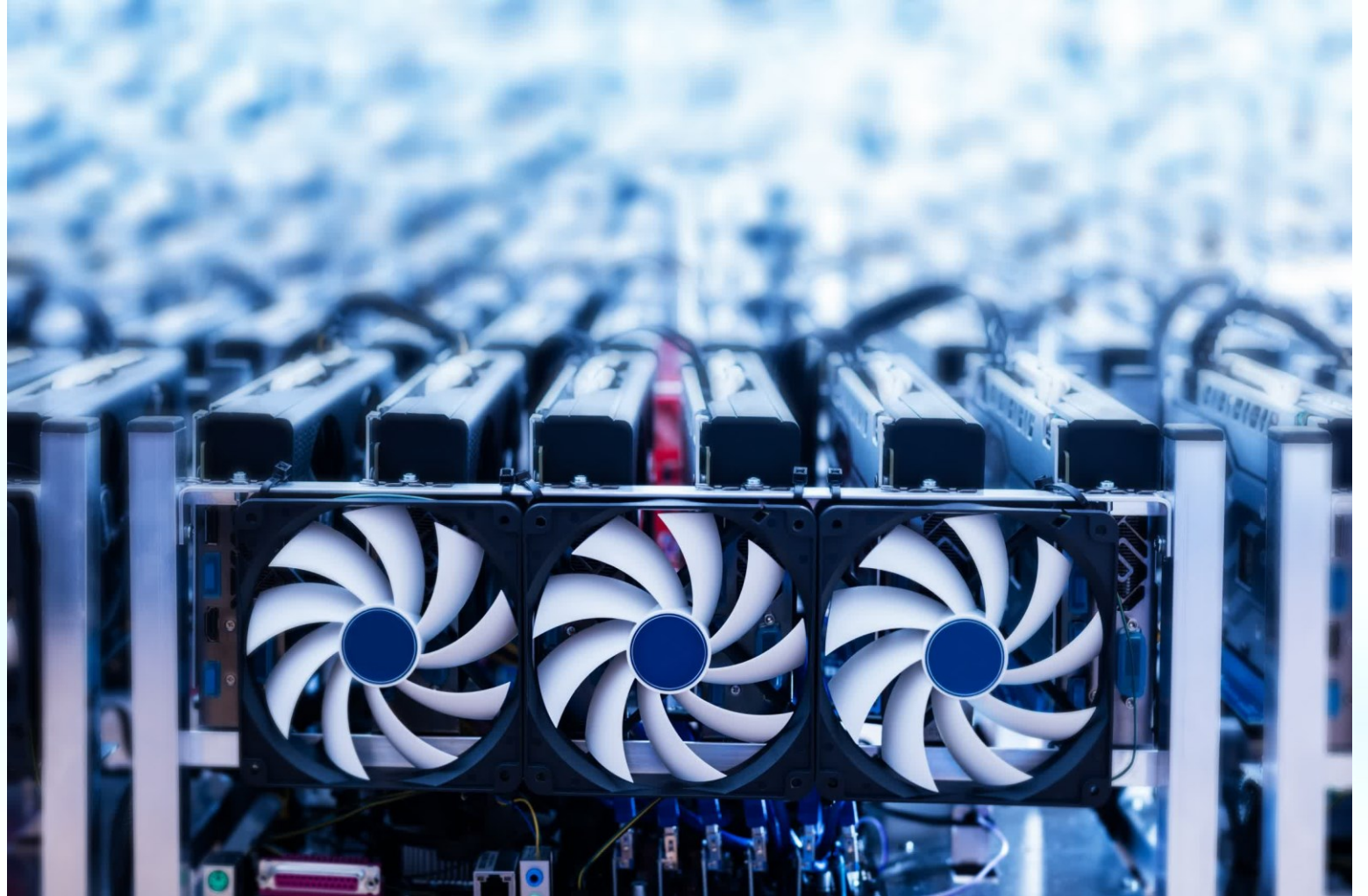


For what else?

Tariffs

Solar Panels

Buffer



For what else?

Tariffs

Solar Panels

Buffer

Waste heat

Transport

Demand Response





HeatVentors
The cool way to store heat!

<https://www.heatventors.com/>

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