



# GreenWave Energy thermal battery

Revolutionizing thermal energy storage through  
our innovative smart overheating technology.

20-year savings  
= 6972 euros

(minus initial cost reduced by 20 %  
= (548 × 20) - 3988 euros)

## Profitability performance with public assistance

### Advantages for an electricity provider

While the energy savings of a domestic installation may seem modest at **7.5 kWh** per day, at the scale of an energy provider, the benefit is significant. This could encourage them to offer financial incentives to residential or commercial clients to install our system and lower peak demand, thereby avoiding the need to build costly new power generation infrastructure.

### For example:

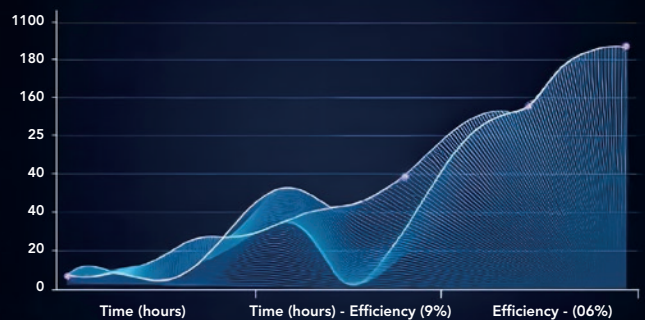
Our residential system provides: **7.5 kWh/day × 365 days = 2738 kWh/year**. Thus, **2,500 residential installations** create the world's largest collective thermal battery, equivalent to the power of: **1.5 hectares** of solar park or **2.5 hectares** of wind park with **4 × 2MW wind turbines**.

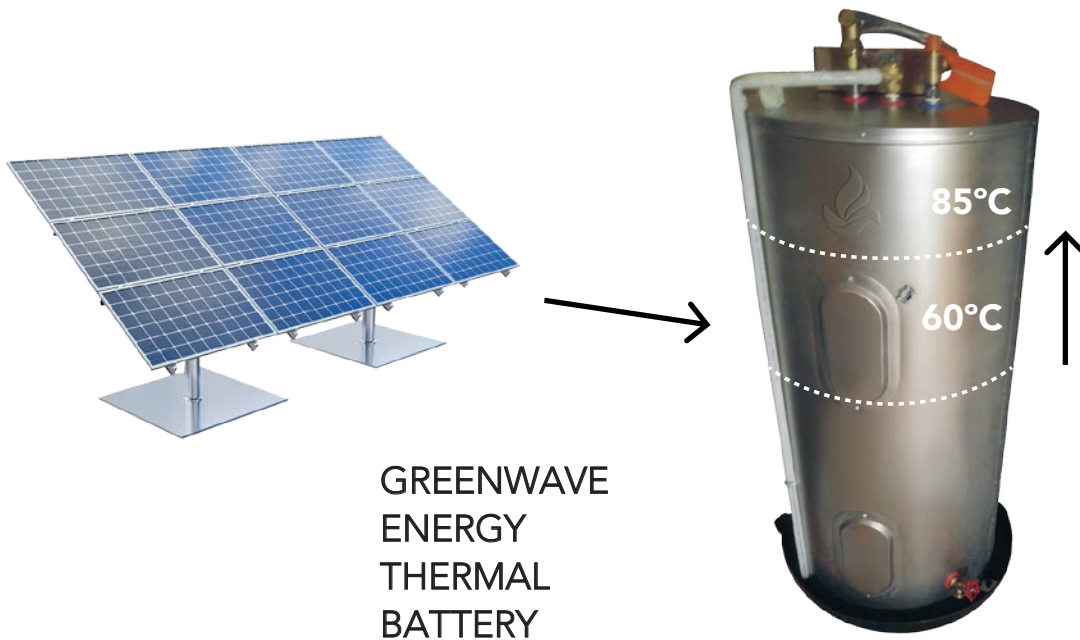
\*Calculations based on 20% green subsidies are hypothetical only. Subsidies, if applicable, vary by country and over time.

\*\*Estimate based on 2 hours × 2 workers at a rate of €150/hour.

### Energy storage

Performance on GreenWave





GREENWAVE  
ENERGY  
THERMAL  
BATTERY

## GreenWave energy thermal battery

Our solution increases the temperature of water in an existing water heater from around **60°C to 85°C** using a few photovoltaic solar panels\*. This overheating stores more thermal energy and maximizes system autonomy without using the electric grid.

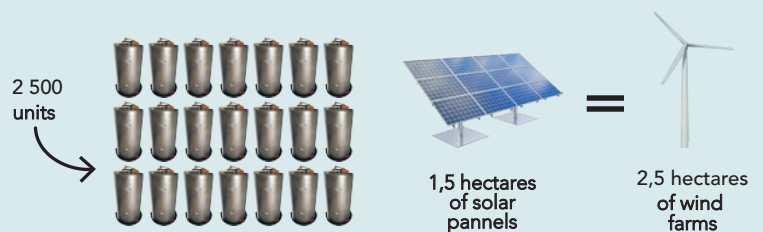
\*Note: The GreenWave system may include or exclude the photovoltaic panels.

### Performance and savings data

A **240-liter** enhanced water heater produces enough hot water for a typical family.

Overheating to **85°C** can generate **250 liters of hot water at 40°C** (comfortable shower temperature) without using the electrical grid.

- Energy saved: **±2738 kWh/year**
- Estimated annual savings: **±€548** (based on **€0.20/kWh**)
- With **2,500 units** combined, this equals:
  - **1,5 hectares** of solar panels
  - **2,5 hectares** of wind farms (~4 × 2MW turbines)



# Summary table

	HEATER TYPE	HEATER TYPE
Green Wave240 lt	Standard 240 lt	-
Operating temperature	55°C to 85°C	55°C to 60°C
Daily hot water without grid	250 liters	-
Annual energy savings	2738 kWh 548 Euros	-

## Comparison and benefits

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### Versus a full solar photovoltaic water heater:

Our system saves **€4,000 to €6,000** in components and installation compared to a fully solar PV heater. It meets most household hot water needs without grid dependence.

### Versus a solar thermal water heater:

Thermal systems are prone to failures (pumps, leaks, freezing, overheating), less reliable in winter, and require more maintenance. Our PV-based solution is more stable, durable, and better suited to residential use.

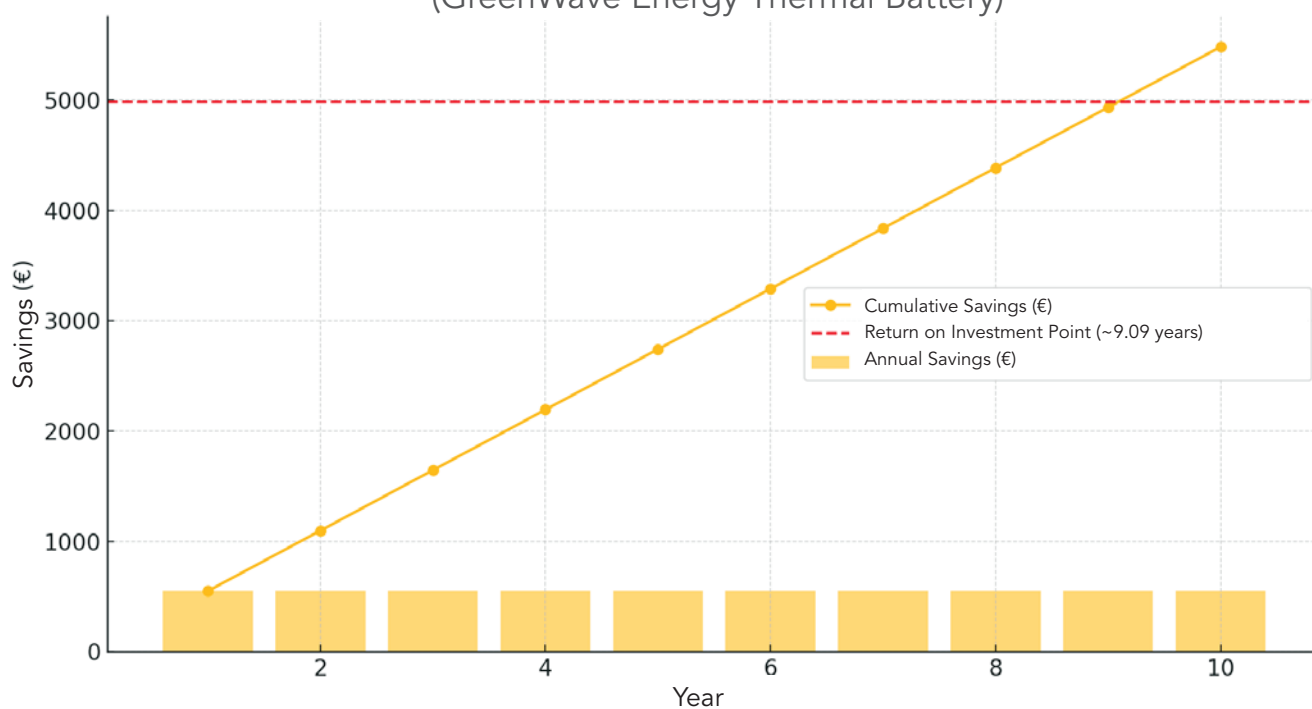
### Compatibility and safety

**No durability impact:** Our water heaters are designed to withstand **85°C** without reducing their lifespan.

**Guaranteed safety:** A thermostatic valve reduces output temperature to **60°C** or less.

# Projection of energy and financial savings over 10 years

Projection of energy and financial savings over 10 years  
(GreenWave Energy Thermal Battery)



## Return on investment (Payback calculation)

Total cost divided by annual savings ( $4985 / 548$ ) = 9.09 years

## Return on investment (Payback calculation) with subsidy

Coût total moins 20% divisé par économies annuelles (3988 euros / 548 euros) = 7.28 années

## Performance and profitability

20-year savings minus initial cost: ( $548 \times 20$ ) - 4985 = €5975

## In Summary

- The simplest, fastest, and most cost-effective solution to install
- Potentially eligible for energy transition subsidies
- Virtually maintenance-free

A unique product on the global market: a true “low-tech” thermal battery that assists the electrical grid