

# CenEnergy

by **Belfius**

## WHEN DOES A HOME BATTERY REALLY PAY FOR ITSELF?

Smart energy doesn't stop with solar panels.  
It starts with making the right choices.

Too many people invest today  
in a home battery that looks good on paper...  
but in practice never delivers a return.

**We make the difference.**

With this honest guide,  
we help you understand  
what really matters.

Discover inside how to turn  
energy into an investment  
instead of a cost.

**FULL.CIRCLE.ENERGY.**

## A HOME BATTERY? SMART IDEA.

But only if it's chosen correctly.

A battery increases your self-consumption, reduces your energy bill and makes you less dependent on the grid.

### BUT THE REALITY?

Many batteries never pay for themselves.

Why?

- > Oversized or undersized
- > No smart energy management
- > No consideration of dynamic tariffs

**That's why: first insight, then investment.**

## 1. RETURN & PAYBACK PERIOD

A WRONGLY CHOSEN BATTERY COSTS YOU PERFORMANCE.

> **The payback period depends on:**

- capacity;
- your consumption profile;
- fixed vs. dynamic tariffs;
- income from grid balancing.

> **Too small** = limited impact

> **Too large** = high cost, low return

**Always ask:** "After how many years do I break even, based on my consumption?"

AT CENERGY, WE CALCULATE THIS FOR YOU UPFRONT. TRANSPARENT. REALISTIC.

## 2. INVESTING IN CERTAINTY

NOT ALL WARRANTIES ARE EQUAL.

> **Pay attention to:**

- Number of cycles;
- Remaining capacity after 10 years.

> **High-quality batteries:**

- 10–15 years warranty;
- $\geq 80\%$  capacity after 10 years.

> **Low-cost batteries:**

- Often 5 years warranty;
- Faster capacity loss.

**Always ask:** "What do you guarantee me after 10 years?"

### 3. WITHOUT A SMART EMS, YOUR BATTERY OPERATES BLINDLY

A BATTERY WITHOUT ENERGY MANAGEMENT IS LIKE MOPPING WITH THE TAP LEFT RUNNING.

> A smart Energy Management System (EMS):

- decides when to charge or discharge;
- takes solar production, consumption and prices into account;
- makes use of cheap or negative electricity.

> **Poor EMS** = missed opportunities = less savings.

**Always ask:** "How does the system decide when my battery operates?"

**WITH CENERGY SOLUTIONS, WE CONTROL EVERYTHING AUTOMATICALLY BASED ON YOUR PREFERENCES.**

### 4. POWERFUL PERFORMANCE, INTELLIGENTLY CONTROLLED

Things often go wrong with the inverter's power.

It's not only about how much energy you store, but also how quickly you can use it.

**EXAMPLE:**

- > **Battery: 10 kWh**
- > **Charging power: 4 kW**
- > **EV charger: 11 kW**

→ You continue to draw power from the grid

**MAIN RULE:**

- > Power  $\approx$  1/2 of capacity
- > 10 kWh storage |  $\pm$ 5 kW power
- > Charge/discharge in  $\pm$ 2 hours

**Note: kWh  $\neq$  kW | Storage  $\neq$  speed**

**AT CENERGY, THESE TWO ARE NEVER CONFUSED.**

### 5. SECURITY IN CASE OF A POWER OUTAGE

**NOT EVERY BATTERY CAN PROVIDE BACKUP POWER.**

- > Backup is technically possible;
- > In the event of a blackout or power outage in your area, the lights will stay on in your home.

**A HOME WITH BACKUP IS:**

- > More autonomous;
- > Better prepared;
- > More valuable.

**Always ask:** "Is my installation ready for backup power?"

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## **CHECKLIST:** **how to compare quotes correctly**

### **Always check:**

- > Backup capability
- > Payback period simulation (based on your data)
- > Warranty (years + remaining capacity)
- > Type of EMS and decision logic
- > Storage capacity (kWh) and power (kW)
- > Integration with solar panels, charging station and heat pump

## **Why choose CenEnergy?**

### **FULL.CIRCLE.ENERGY.**

**Because we look beyond today.**

**Smart energy management with CenEnergy Solutions.**

**Optimal use of dynamic tariffs.**

All in one system: battery, EMS, charging station, solar panels.

Transparent calculations, no sales talk.

**Energy that pays for itself — or even generates income.**

We don't sell batteries. We build energy strategies.

Request a free, no-obligation consultation today  
and discover what energy can really do for you.

**SIMULATE TODAY**  
**WHAT YOU CAN SAVE.**

