INDEPENDENT REPORT · HOME BATTERY QUOTE

Your home battery, calculated

Based on your quote and your own hourly use, under the rules from 1 January 2027 (end of net metering). Quote: 8 kWh usable for €5,200.

OUR VERDICT

Don't sign in this form

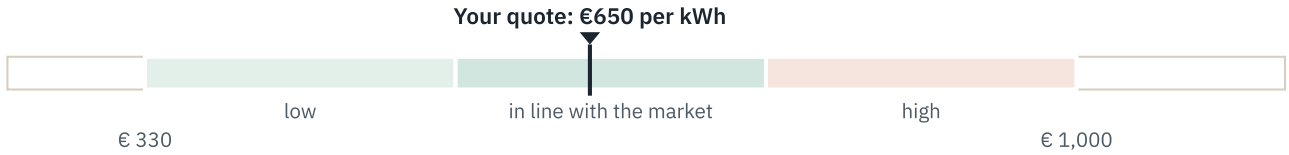
In this form the battery does not pay for itself.

Payback 11.9 years to more than 15 years

This battery is larger than your consumption justifies. Ask for a quote for about 6 kWh before you sign.

PRICE PER USABLE KWH

€ 650 in line with the market



SIZE (USABLE CAPACITY)

Quote	8 kWh
Fitting	6 kWh

4.0 kW power according to the quote

SAVING IN THE FIRST YEAR

€ 352

expected scenario; 94% of €5,200 back over 15 years

PAYBACK TIME, FROM 2027

11.9 years to more than 15 years



In short

- **Price:** in line with the market, € 650 per usable kWh.
- **Size:** too large. Quoted 8 kWh, fitting 6 kWh.
- **Payback:** 11.9 years to more than 15 years.
- **Waiting:** is expected to pay off; the price drop is larger than the saving you miss.

PART 2

Your hourly use

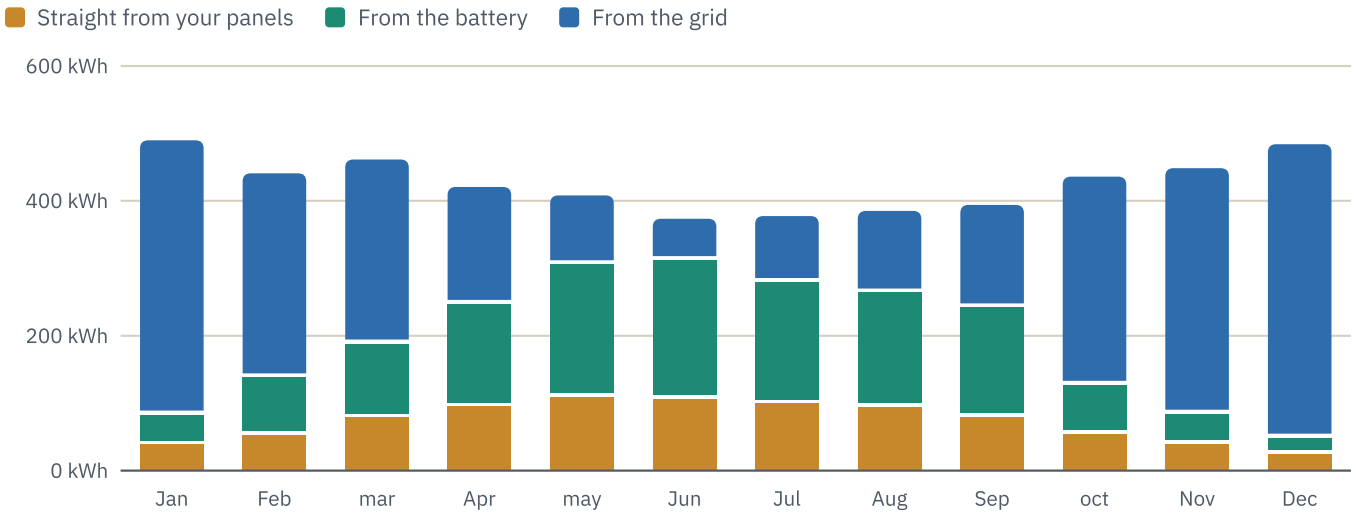
How your own daily pattern determines what a battery does, and why bigger is not always better.

Where does your electricity come from?

Your smart meter only sees what your home takes from and feeds back to the grid. To show where your electricity comes from, we combine that meter data with the output of your solar panels, calculated with PVGIS for your location and scaled to your annual totals. Below is the situation with the quoted battery, including charge and discharge losses.

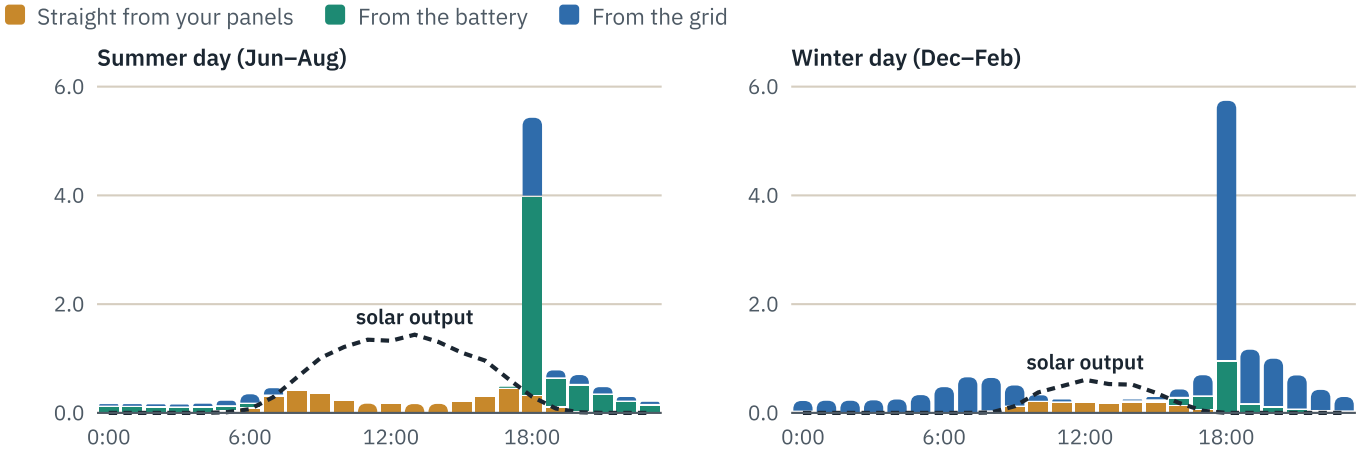
OWN ELECTRICITY	SOLAR POWER USED YOURSELF	FROM THE GRID
17% → **45%**	31% → **88%**	4,245 → **2,800 kWh**
of your use does not come from the grid	the rest goes back to the grid	per year

Per month

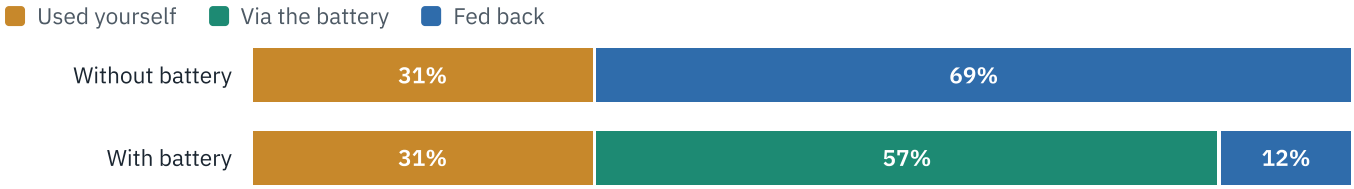


An average day

Your hourly use, by source. The line is what your panels produce in that hour. Anything above your use goes to the battery or the grid.

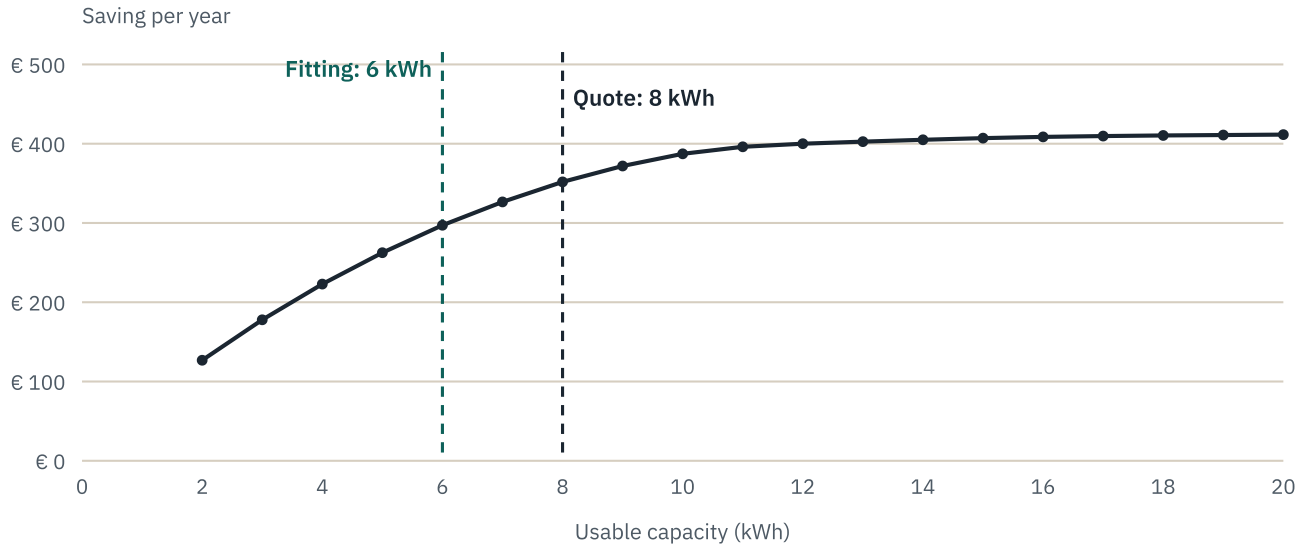


Where does your solar power go?



Which size fits you?

For your household a battery of about **6 kWh**. Above that, every extra kWh of capacity earns less than it costs: on most days the battery no longer fills up, or no longer empties. The quote assumes 8 kWh; that is more than your use justifies.



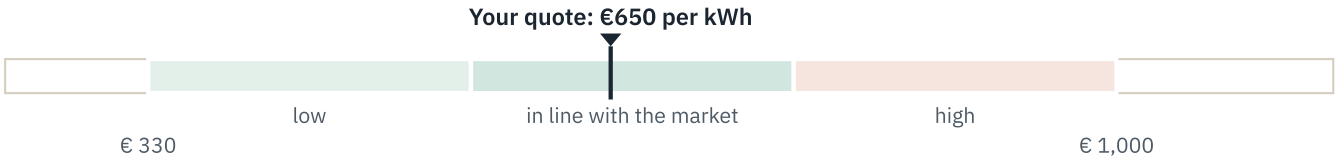
PART 3

What it earns you

Price, savings and payback after 2027, in three scenarios.

Price

Your quote is **in line with the market** compared with publicly published prices (€ 330 to € 1,000 per usable kWh, including installation). Our own database does not yet hold enough quotes for this battery size for a more precise verdict.



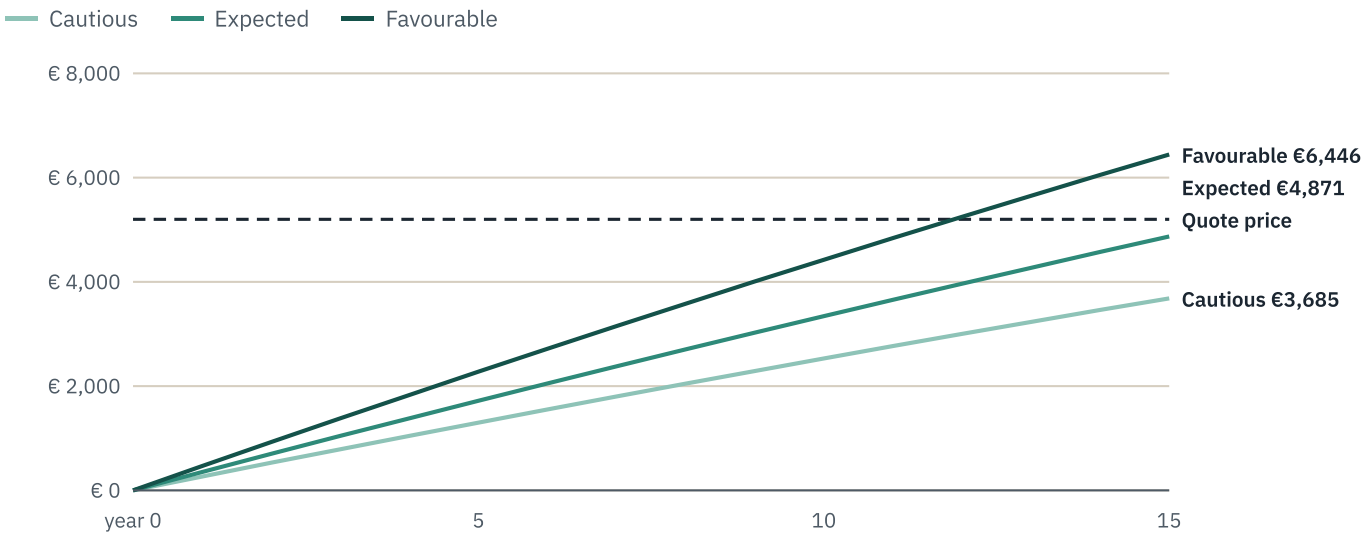
Payback time

Nobody knows the electricity price of the coming years. That is why we give a range instead of one number. All scenarios allow for battery ageing.

SCENARIO	SAVING YEAR 1	SAVING IN 15 YEARS	PAYBACK TIME
Cautious lower electricity price, higher feed-in fee	€ 266	€ 3,685	more than 15 years
Expected your current contract	€ 352	€ 4,871	more than 15 years
Favourable higher electricity price, lower feed-in fee	€ 466	€ 6,446	11.9 years

For comparison: independent research found a payback time of 10 to 22 years (VEH and CE Delft, February 2026: 13 households with a home battery, measured for 12 months). Providers often quote shorter times, usually based on the best months of 2024.

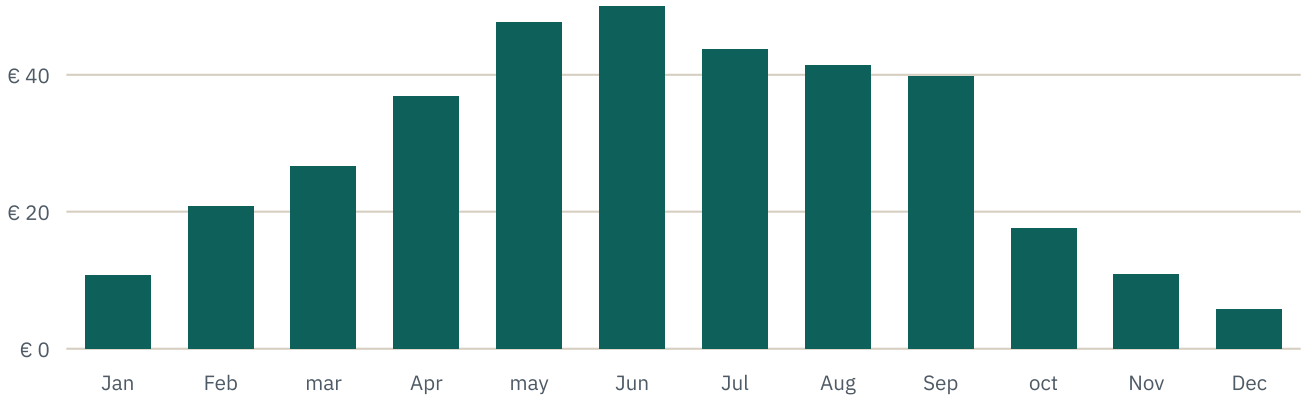
Added up over the years



Where a line crosses the quote price, the battery has paid for itself. The saving shrinks a little each year as the battery ages: after 15 years about 6 kWh of the original 8 kWh is still usable.

Saving per month

The battery earns most in June (€ 50) and least in December (€ 6). The four winter months together account for 14% of the yearly saving. In winter there is little surplus solar power to store; that is normal and is included in the calculation.



Buy now or wait a year?

Batteries get cheaper every year. Whoever waits a year pays less but misses a year of savings.

Saving you miss in the first year	€ 352
Expected price drop in a year (assumption: 8%)	€ 416

On that assumption waiting is better: on balance you gain about € 64. Regardless of our assumption: waiting only pays if the price of this battery falls by more than **6.8%** in a year. Changes in rules and tariffs are not included here.

Your energy contract

What a battery earns depends strongly on your contract. That is why we also ran your consumption on other types of contract.

CONTRACT	ELECTRICITY COST WITHOUT BATTERY	WITH BATTERY	SAVING FROM BATTERY	PAYBACK TIME
Your current contract	€ 1,089	€ 737	€ 352	> 15 years
Dynamic contract (hourly prices)	€ 1,070	€ 706	€ 364	> 15 years
Your contract without a feed-in fee	€ 1,226	€ 761	€ 464	11.9 years

Without a battery the type of contract matters little for your consumption: the difference is less than € 25 per year. The row without a feed-in fee shows what happens if your supplier stops paying for power you feed in. Until 2030 there is a legal minimum; after that there is not.

Electricity costs from 2027 only (import minus feed-in), without standing charges and grid fees. The hourly prices are those of the period of your meter data; future prices may differ. We compare types of contract, not suppliers.

APART VAN DE TERUGVERDIENTIJD

Extra: trading on the imbalance market

Through an energy supplier or intermediary your battery can help keep the grid in balance. That party controls the battery and shares the proceeds with you. You cannot do this yourself. The amounts below are an estimate based on 2026 results; income falls as more batteries join (assumption: 10% per year) and the provider keeps an estimated 25%.

Note for 2027: without net metering you pay energy tax on power the battery charges from the grid and later feeds back. The government is studying a solution, but nothing has been decided. That is why you see both outcomes. Even if the double energy tax stays, trading still earns something in the expected scenario.

SCENARIO	GROSS YEAR 1	NET WITHOUT DOUBLE TAX	NET WITH DOUBLE TAX	PAYBACK WITHOUT	PAYBACK WITH
Cautious	€ 160	€ 120	-€ 59	> 15 years	> 15 years
Expected	€ 280	€ 210	€ 31	> 15 years	> 15 years
Favourable	€ 400	€ 300	€ 121	13.6 years	> 15 years

When trading, an estimated 70% of the self-consumption saving remains, because the battery cannot be used for both at once. Providers we saw in 2026: Frank Energie (Slim Handelen), Tibber (Grid Rewards), Bliq (Powerflow), NextEnergy, Balans Energie, Eneco. Terms and supported battery brands differ per provider and change often; check them with the provider.

Fixed fee for grid congestion

Grid operators, via energy suppliers, also pay a fixed fee if you make your battery available when the local grid is full. That is not trading: the fee is fixed in advance. One example is Eneco's BuurtSturing, at least €60 a year. We use €60 to €150 a year, for schemes running until 2030. Whether this combines with trading and with your contract differs per provider. This fee is not counted in the payback time at the top either.

PART 4

Accountability

Every assumption and source, so you or someone you trust can check the calculation.

Your situation

Electric car, home charging	1,728 kWh per year, direct charging
Power from the grid per year	4,245 kWh
Feed-in per year	1,950 kWh
Contract	fixed
Electricity cost with net metering (through 2026)	€ 707
Electricity cost from 2027, without battery	€ 1,089
Power from the grid with battery	2,800 kWh
Feed-in with battery	344 kWh

What are these figures based on?

Where we have your own data, we use it. Where it is missing, we use the best estimate we can make, and say so below.

Your hourly use	Estimated	converted from your annual totals with a standard daily pattern
Solar output	Estimated	Calculated with PVGIS for your location, scaled to your annual totals
Usable capacity	From quote	8.0 kWh
Battery power	Default value	4,0 kW
Charge and discharge efficiency	Default value	90%
Ageing	Default value	2.0% capacity per year
Price	From quote	€5,200 incl. VAT
Electricity rate	Your contract	as provided
Feed-in fee and costs	Your contract	as provided
Electric car charging	Estimated	1,728 kWh per year, not yet in your meter data
Energy tax 2027	Proposed	€0.0880 per kWh; the Tax Plan is not final yet

How certain is this calculation?

Charging of your electric car (about 1,728 kWh per year at home) is not yet in your meter data and was added as an estimate.

Some assumptions are still provisional, including the 2027 energy tax rate (the Tax Plan is not yet final).

This report is based on an estimated consumption profile, not on measured hourly data. The results are therefore less certain.

The price verdict is based on publicly published prices, which differ widely. Treat it as a rough indication.

Income from imbalance trading is an assumption based on published 2026 results, not a calculation for your home. It is not counted in the payback time at the top of this report.

Your panels' output is estimated from your annual totals, so the split between solar, battery and grid is an approximation.

Assumptions

Electricity price (incl. tax and VAT)	€ 0.266 per kWh
Feed-in fee	€ 0.070 per kWh
Feed-in costs	€ 0.050 per kWh
Energy tax 2027 (excl. VAT)	€ 0.0880 per kWh
VAT	21%
Battery ageing	2.0% per year
Battery life	15 years
Extra cost per additional kWh of capacity	€ 400

VERSION AND PROVENANCE

Assumptions	version 2027-draft-2
Report prepared	19 November 2026
Case	demo-B
Method and changes	batterijpeil.nl/en/method

How this was calculated

1. We use the yearly totals from your annual statement, converted to an hourly profile (8,760 hours).
2. We calculate your electricity costs under the rules from 1 January 2027: you pay for every kWh you take and receive a fee for every kWh you feed in.
3. We simulate the battery hour by hour, with the power, the charge and discharge losses and the ageing from the assumptions.
4. The saving is the difference in electricity cost with and without the battery.
5. For the fitting size we run every size from 2 to 20 kWh.
6. We calculate the payback time in three price scenarios.

Sources

- Solar irradiation: PVGIS, Joint Research Centre of the European Commission.
- Hourly electricity prices: day-ahead prices via Energy-Charts (Fraunhofer ISE).
- Energy tax 2027: proposed rates from the 2027 Tax Plan.
- Rules after net metering: the Act ending the net-metering scheme; guidance from the ACM (consumer and market authority).

With the assumptions in this report and your own meter data, you or someone you trust can check the calculation.

This report was prepared solely for 1234 AB, house number 12 and is based on the meter and quote data of this address. It cannot be used for another address.

This report is an estimate based on the data supplied and is not financial advice. Actual savings depend on your consumption, the weather and future tariffs.

Assumptions version 2027-draft-2 · case demo-B · 19 November 2026

PART 5 · TO PRINT OR FORWARD

Questions for your installer

For the quote for 1234 AB, house number 12. Quote: 8 kWh usable for €5,200. Ask these questions before you sign; a good installer answers them easily.

1 The quote is for 8 kWh of usable capacity. Based on your consumption, 6 kWh fits better. Ask for a quote for a smaller system, or ask why the larger size is needed.

Installer's answer:

2 At the quoted price of € 5,200 the battery does not pay for itself within 15 years in the expected scenario. It does from about € 4,850. Use that amount as your target price.

Installer's answer:

3 Your battery is expected to make about 190 full charge cycles per year, so roughly 2,800 in 15 years. Ask for a written warranty on remaining capacity that covers at least that many cycles.

Installer's answer:

4 Ask for the usable capacity (not only the nominal one) and the charge/discharge efficiency in writing. This calculation assumes 8 kWh usable and 90% efficiency.

Installer's answer:

5 Ask whether all costs are in the quote: installation, changes to the fuse box, any inverter and any subscription fees.

Installer's answer:

Also check this

These points fall outside our calculation but belong to a good purchase.

- Is the installer registered with the Chamber of Commerce (KvK), and for how long?
- What warranty do you get on the battery, the inverter and the installation, and who fixes it if the manufacturer or installer no longer exists?
- Where will the battery be mounted? Ask about fire-safety and ventilation requirements, and report the battery to your home insurer.
- Can the battery be expanded later, and does it work with your current inverter?
- Can the battery supply power during an outage? That is usually an option at extra cost.
- Are there costs after purchase, such as a subscription for the app or control system?

Prepared by BatterijPeil. We sell no batteries, take no commission and do not share your data with installers.