

Energy Storage Business Case

Location: Warsaw

Annual electricity consumption: 4200 kWh

Battery capacity considered: 10 kWh

Consumption profile: G11

Market reference date: 2026-02-08

Cost of Waiting

206 PLN / 6 months

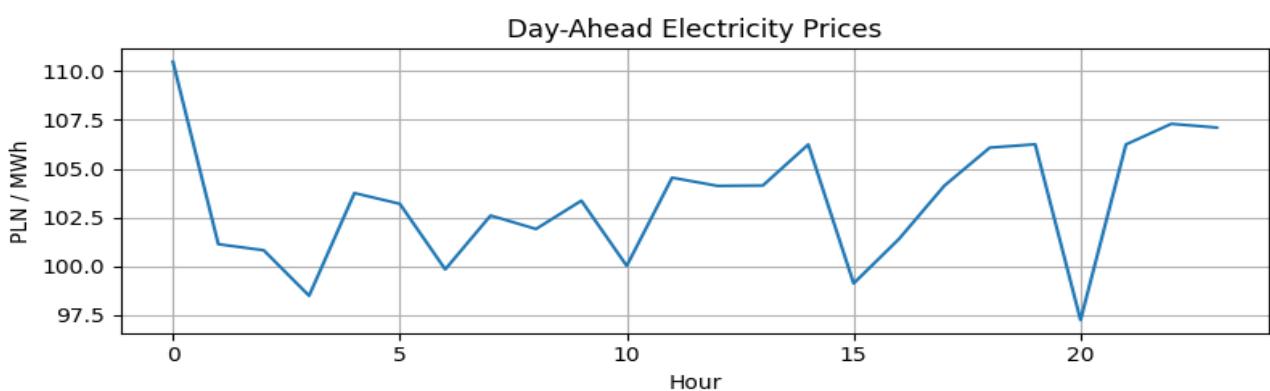
Estimated financial loss caused by postponing battery installation

What does this mean?

Without an energy storage system, surplus solar energy is sold to the grid at low prices, while electricity is repurchased later at higher tariffs during evening peak hours.

This price difference creates a recurring financial loss referred to as the 'cost of waiting'.

Scenario Comparison (Daily Net Grid Balance)



Model Assumptions

- Analysis based on real day-ahead electricity market prices.
- Distribution and grid fees are included in electricity costs.
- PV generation and self-consumption are modeled using simplified annual averages.
- Battery operation is simplified and intended for decision-support purposes.
- Results represent avoided losses, not guaranteed investment returns.