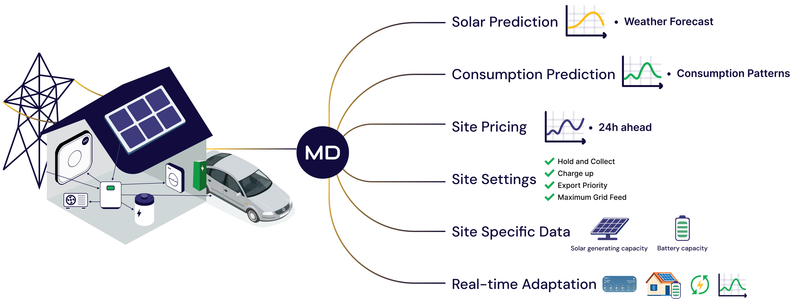
MarkeDroid Helps You To Pay Off Your Solar Investment in 3 Years

We will dive into a customer case that benefited **€3428.77** in the last **10 months** by using our energy management solution, **MarkeDroid AI.**

With MarkeDroid AI, we helped the homeowner by analyzing their data based on **6 different pillars** to make energy decisions and get the best out of the homeowner's battery and solar setup. Our AI analysed the site based on its: **solar production, consumption, site pricing, AI settings, setup** and our **AI adapting to site changes** (weather, battery size, consumption habits and etc.).

Analyzing the site and making decisions based on **6 Pillars**



1. First, we predict how much **solar energy your panels will produce** using realtime **weather forecasts**. If we know a lot of sun is coming, we might sell some energy early when the export prices are high.
2. Second, our EMS learns your **consumption habits**. **When** you use energy, **how much**, and **for what**. Then it tailors your plan automatically.
3. Third, we know **24 hours ahead dynamic tariffs** to make sure you buy, store, or sell at just the right moment.
4. Fourth is which **AI site settings** are activated. The selected commands will be used by the AI planner to compile an optimal plan for the site.
5. Fifth, our system is **Site Specific**. It **adapts your exact setup**, how big your battery is, how much solar you generate, and plans around it perfectly.
6. And finally, **real time adaptation**. If anything changes, like **more sun**, a **new battery**, a **flexibility request from the grid**, or even your **energy habits**, our EMS recalculates instantly with no delays.

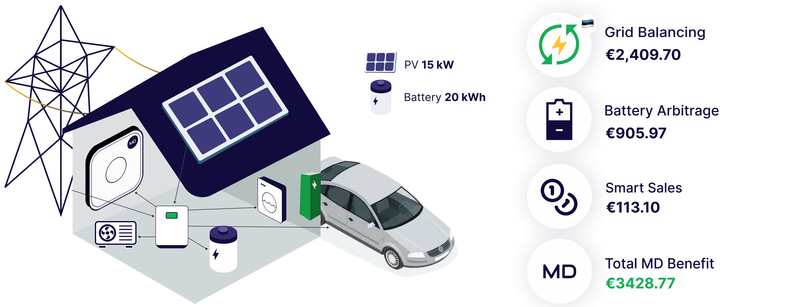
Benefits

With MD the site has actively participated in the **Flexibility market** which contributed to the yearly results the most. Higher flexibility activity is noticed during the summer months and is not distributed to 12 months evenly.

With the **Smart Sales** feature, you can sell your surplus solar power to the grid at the highest possible price. How? By prioritizing consumption first and selling excess energy at peak prices.

Battery Arbitrage is essentially storing energy when it's cheap and using it during expensive peak hours. The amount shown is the customer's **savings**.

Benefit in **10 months** with MARKEDROID



Results

After 10 months of operation, our residential customer achieved financial and operational improvements. *The results may vary based on country, market spread, flexibility requests and other factors.*

Solar Generation Capacity	**15 kW**
Battery Capacity	**20 kWh**
Total Benefit in 10 Months	**€3428.77**
Estimated Return on Investment	**~3 years**

MarkeDroid's AI-driven EMS enabled the site to **maximize solar generation efficiency**, **focus on flexibility market participation**, and **fasten ROI** by implementing predictive analytics and automated energy trading. And the site evolved from static energy monitoring to a fully dynamic, market-responsive operation.

MARKEDROID empowers **independent energy producers** to not only monitor their assets but **actively profit from them** through smart forecasting, market participation, and real-time adaptability.