Bettergy

Choose what do you want to do with the clean energy of the Sun

Proposal

Start saving right now, choose what suits you best

Operation

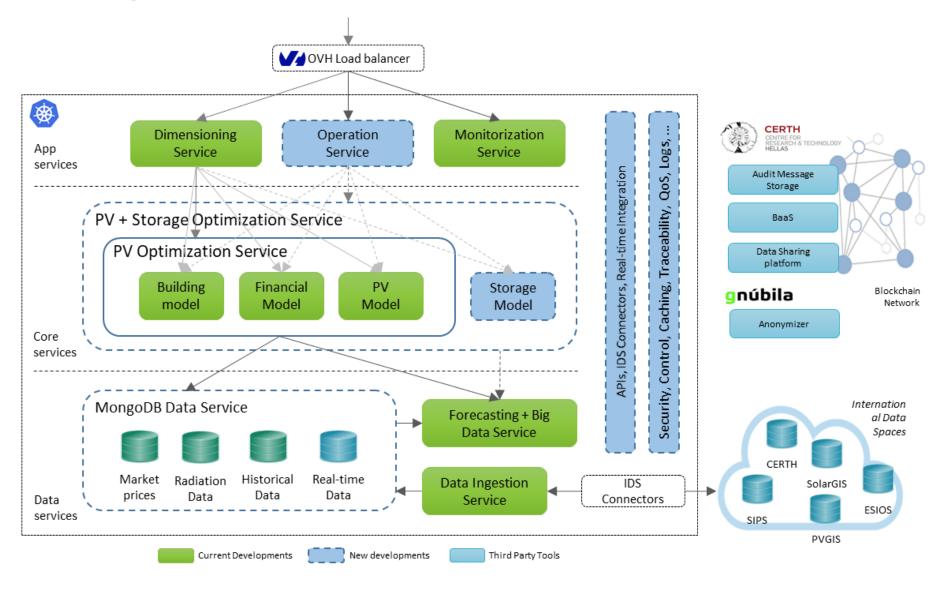
Change your settings and update your hardware

Monitoring

Daily cool charts, tables and big data analysis



Solution Overview

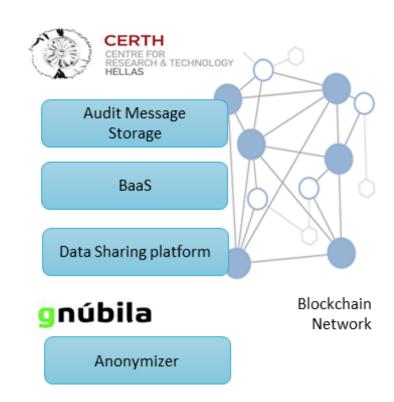


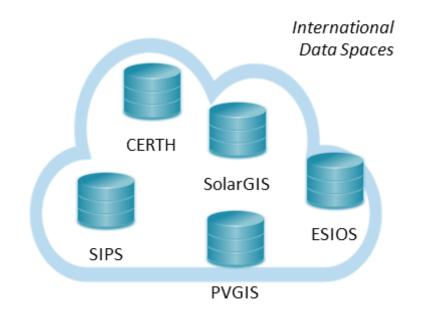




REACH Toolbox and Data Initiatives



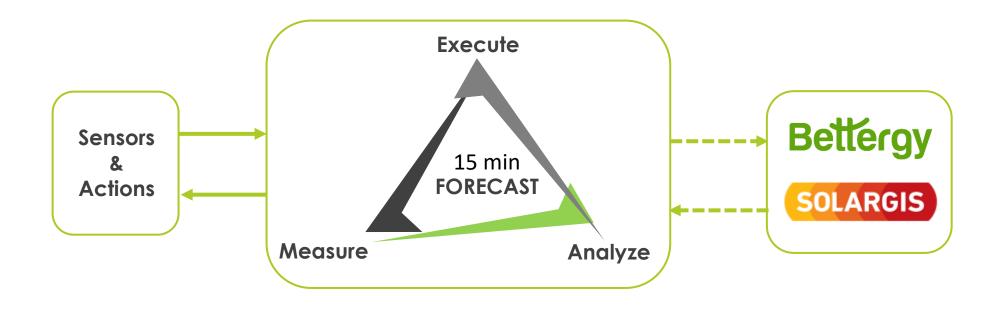








From Dimensioning to Operation in Real-Time



Big Data inputs **Multi-Objectives** Algorithms & Tools • Stochastic programming • CERTH Dataset (Data Provider) • RES Optimization Predictive Models • Consumption Data • Storage optimization • Radiation data Markov Chains Profitability • Python Libraries. Pandas, Geographic location Energy savings Scipy, Tensorflow, keras

Data governance & Risk management















| Risk | Impact | Risk/Op | Actions |
|--------------------------------------|--------|---------|---|
| Algorithm accuracy | High | Medium | OKRs definition Continuous involvement of energy efficiency with RES expertise and data scientists in the analysis, design and testing phases Set of truth (CERTH) SOLARGIS integration for radiation forecasting R&D collaboration with optimization expert groups from the University of Málaga OWASYS |
| Software performance and scalability | Low | Medium | OKRs definition Technology roadmap update REACH & external expert support Microservices Kubernetes |
| Data security & transparency | High | Low | Monitoring of the cloud infrastructure, data transfer, and intrusion detection Blockchain datatools GNUBILLA anonymization |
| Project execution | Medium | Low | Leading member with 24/5 work full time dedication Lean Startup Methodology Detailed planning with JIRA TOOL |
| Market oriented product | Medium | Low | Product owner leadership Customer discovery activities Canvas Competitor's benchmark State of the art OKRs definition & metrics Potential customer pilot deployment in real environment Updated Support for storage regulations, rebates and utility rates Storage Manufacturer equipment restrictions Integration with our Software Platform |











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Annex

Visit de Mockup at

https://bettergy.gitlab.io/storage-as-a-service/saas/



Proposal Info

Create a proposal, here is where you can define all of the project inputs, and the control settings to achieve your economic and environmental goals. Start by introducing your proposal title and description, then upload your energy use consumption profile.

Title

Energy Sources Optimization (REACH)

Energy Use Data Profile



Electric Bills



SpreadSheet



Green Button

Description

CERTH Data Proposal

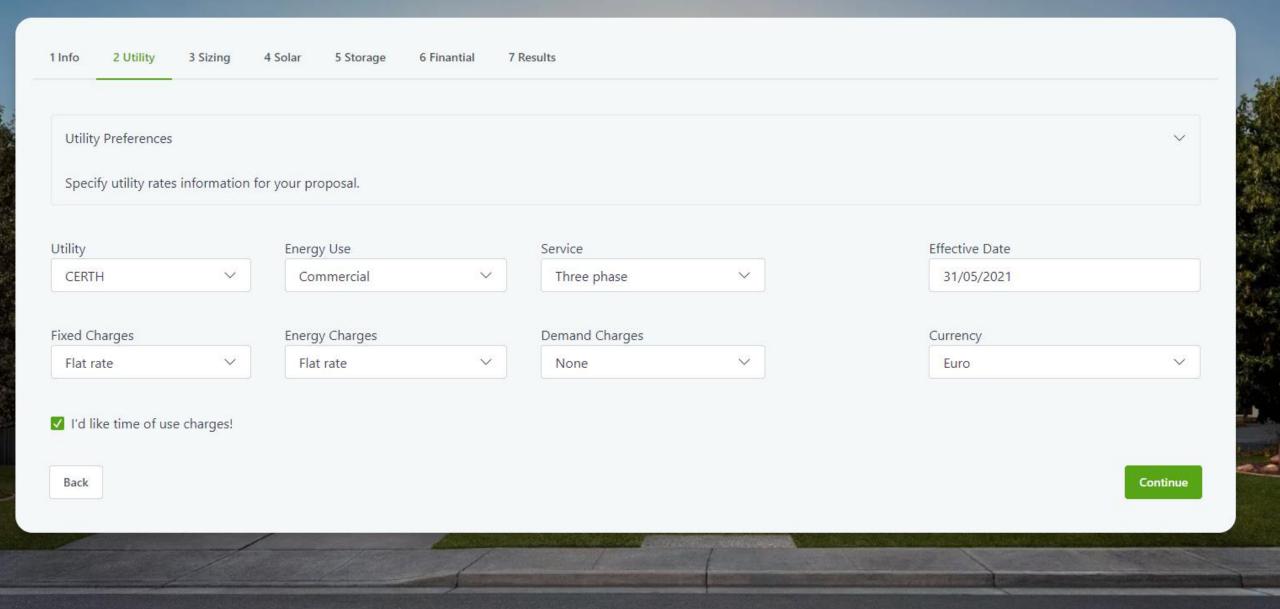
Attach documents

Drop and Drag here

....

or

Browser Files



1 Info 2 Utility 3 Sizing 4 Solar 5 Storage 6 Finantial 7 Results

Sizing

Introduce your control settings and quickly run an advanced simulation to determine the optimal system size of your project according to your economic + environmental goals. Set a target internal rate of return and/or a degree of energy self sufficiency. Visualize how your goals change according to solar and storage size then re-engineer and launch a new simulation.

Internal Rate of Return

6 %

So %

Peak Demand Level
Enabled

Enabled

Charging restrictions

Energy Self Sufficiency

50 %

Energy Arbitrage

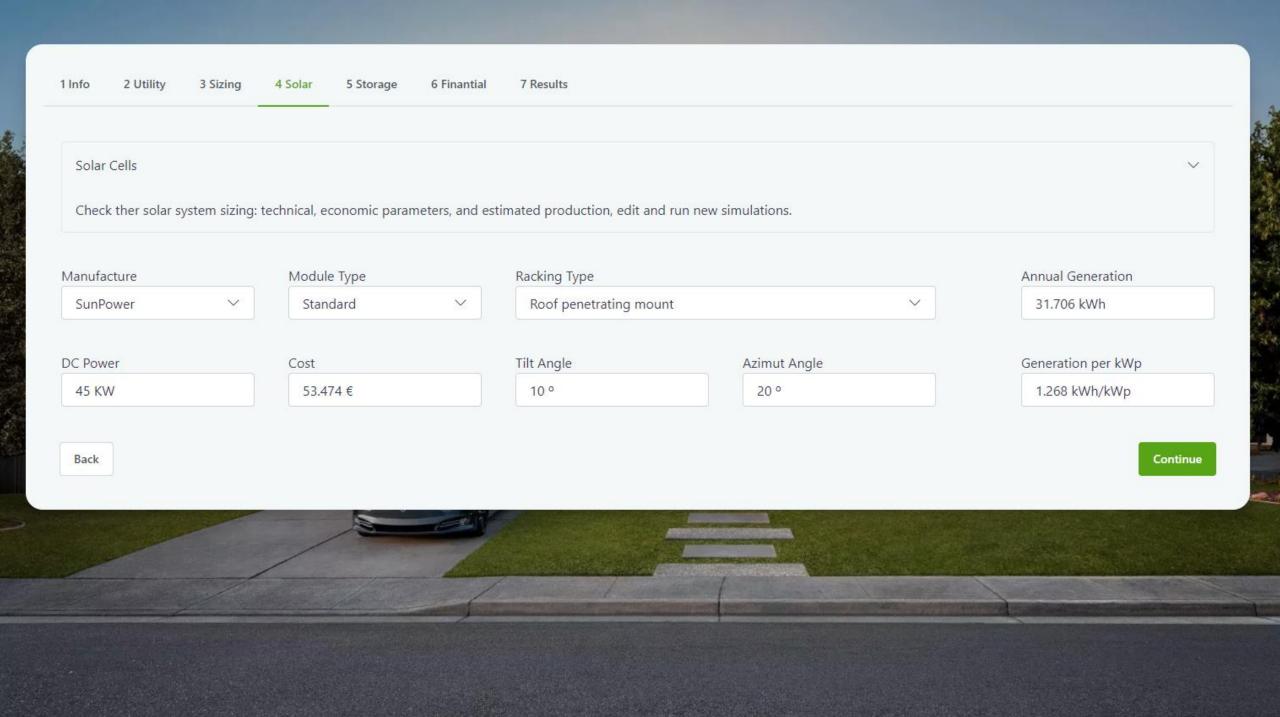
Enabled

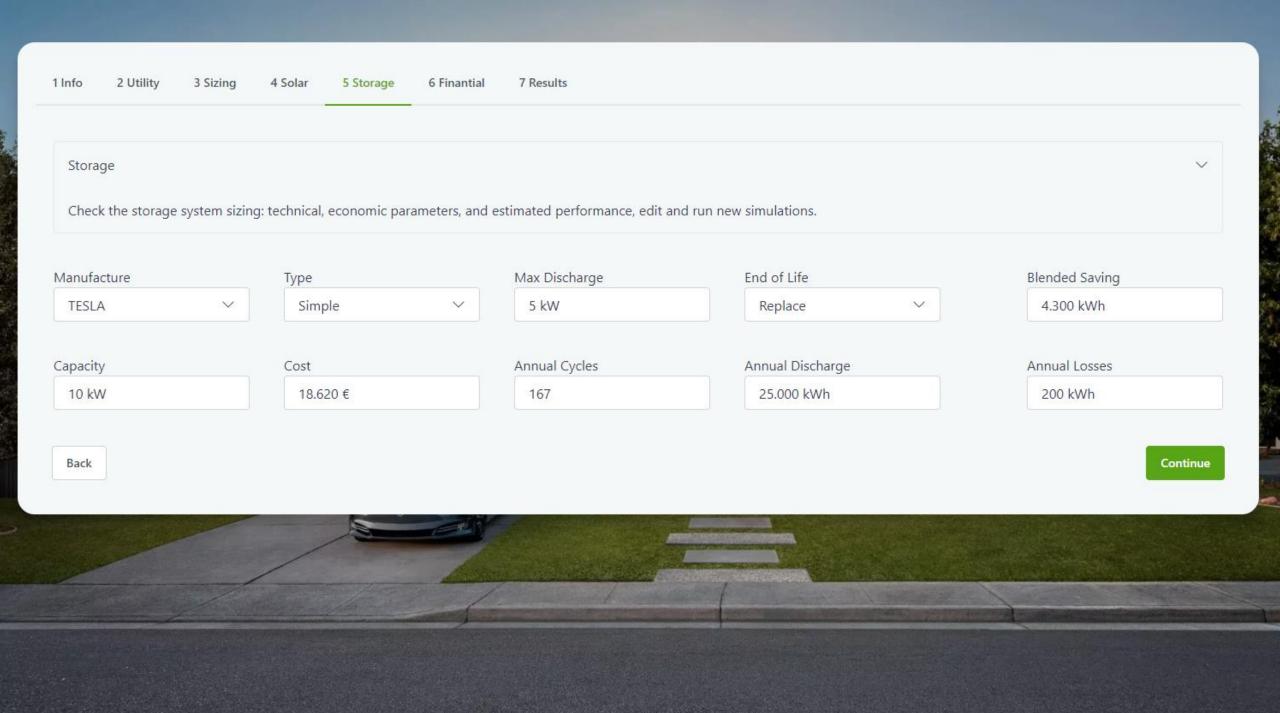
Charging restrictions

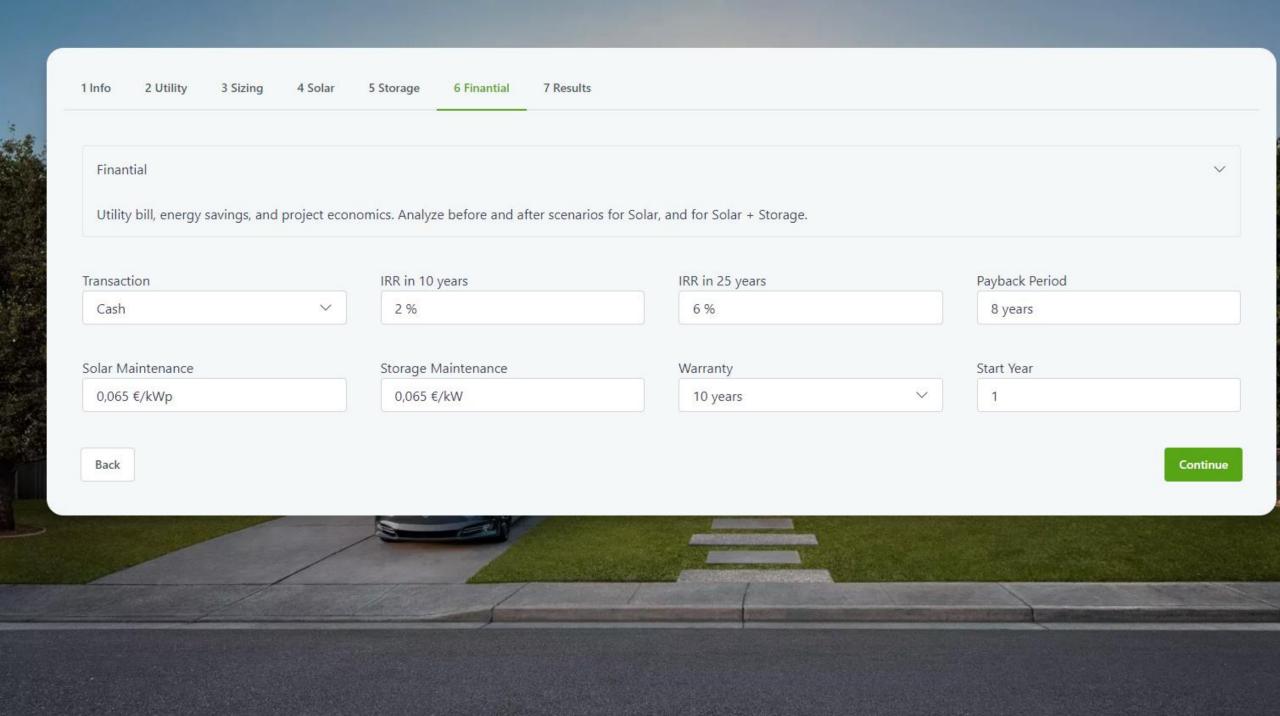
Back

Continue

V







1 Info 2 Utility 3 Sizing 4 Solar 5 Storage 6 Finantial 7 Results

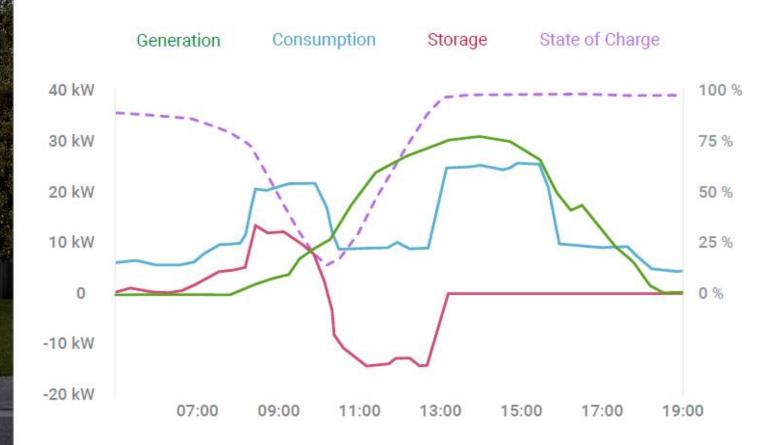
Results

| Cost | Solar Cells | Energy Storage | Annual Energy (MWh) | Electric Bill Cost) |
|----------|---------------------------------|-----------------------|----------------------------------|-----------------------------|
| | kW-DC / kW-AC / kWh/kW / Export | kWh / Max kW | Usage / Solar / Storage / Offset | Before / After S+S / Offset |
| 72.193 € | 25 / 21,8 / 1,268 / 87 % | 10 / 5 | 30,27 / 21,17 / 16,74 / 45 % | 20.730 € / 11.930 € / 43 % |

| Type | Payment | Savings in 25 years | Payback Period | IRR |
|------|----------|---------------------|----------------|-----|
| Cash | 72.193 € | 225.603 € | 8 years | 6 % |

Back





May

| M | on | Tue | Wed | Thu | Fri | Sat | Sun |
|---|----|-----|-----|-----|-----|-----|-----|
| | | | | | | 1 | 2 |
| ; | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 0 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | 7 | 18 | 19 | 20 | 21 | 22 | 23 |
| 2 | 4 | 25 | 26 | 27 | 28 | 29 | 30 |
| 3 | 1 | | | | | | |

PDF