

# AI & Data Science for the Energy Sector

STACC

STACC helps energy companies turn complex data into smarter decisions.

We develop advanced AI and machine learning solutions that improve forecasting accuracy, optimise storage and trading strategies, and support more profitable and resilient energy systems.

Based in Estonia, STACC has more than 15 years of experience in applied data science and has successfully delivered 200+ commercial AI projects across multiple industries.

## What we help energy companies achieve

Our solutions support energy system developers, operators, and technology providers in areas such as:

- ✓ Solar production and consumption forecasting
- ✓ Energy storage optimisation and management logic
- ✓ Electricity trading strategy modelling
- ✓ Profitability analysis and ROI simulations for energy systems
- ✓ Data-driven decision support for energy investments and operations
- ✓ Integration of multiple energy market signals into trading strategies

## From research to real-world energy systems

STACC combines applied research with practical implementation, supporting both strategic energy planning and operational decision-making.

Recent collaborations include projects where STACC has developed forecasting models, automation solutions, and data-driven tools to improve energy trading, operational optimisation, energy efficiency, and investment planning.

We also conduct long-term studies and impact analyses for energy companies and the public sector to help organisations make informed long-term decisions.

## Why work with STACC

- ✓ 15+ years of applied AI and data science experience
- ✓ 200+ successful commercial data science projects
- ✓ Trusted partner in publicly funded R&D and Horizon projects
- ✓ Private R&D institution recognised by the Estonian Ministry of Education and Research
- ✓ Close collaboration with the University of Tartu

## Our capabilities

STACC supports energy companies across the full life cycle of AI and data-driven solutions:

- ✓ AI feasibility studies and technology roadmaps
- ✓ data analysis, visualisation, and BI dashboards
- ✓ machine learning modelling and algorithm development
- ✓ data pipeline automation and ML infrastructure
- ✓ software prototyping and system development



## Contact

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Read more about STACC's energy solutions and case stories at [stacc.ee/energy](http://stacc.ee/energy)

# Bankable Cash Flow Forecast for Energy Asset Investors

## Energy Investment Analytics Platform STYO

STYO enables fast and reliable profitability simulations for energy system projects over complex assets and multi-year horizons.

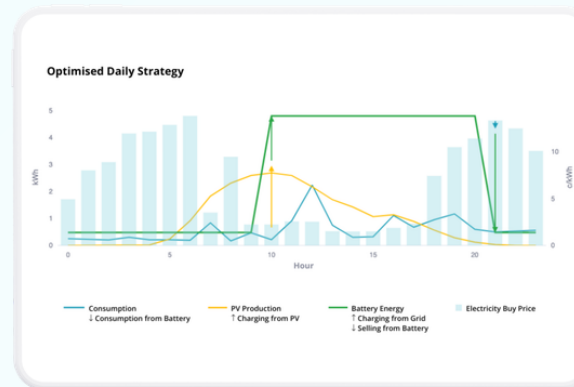
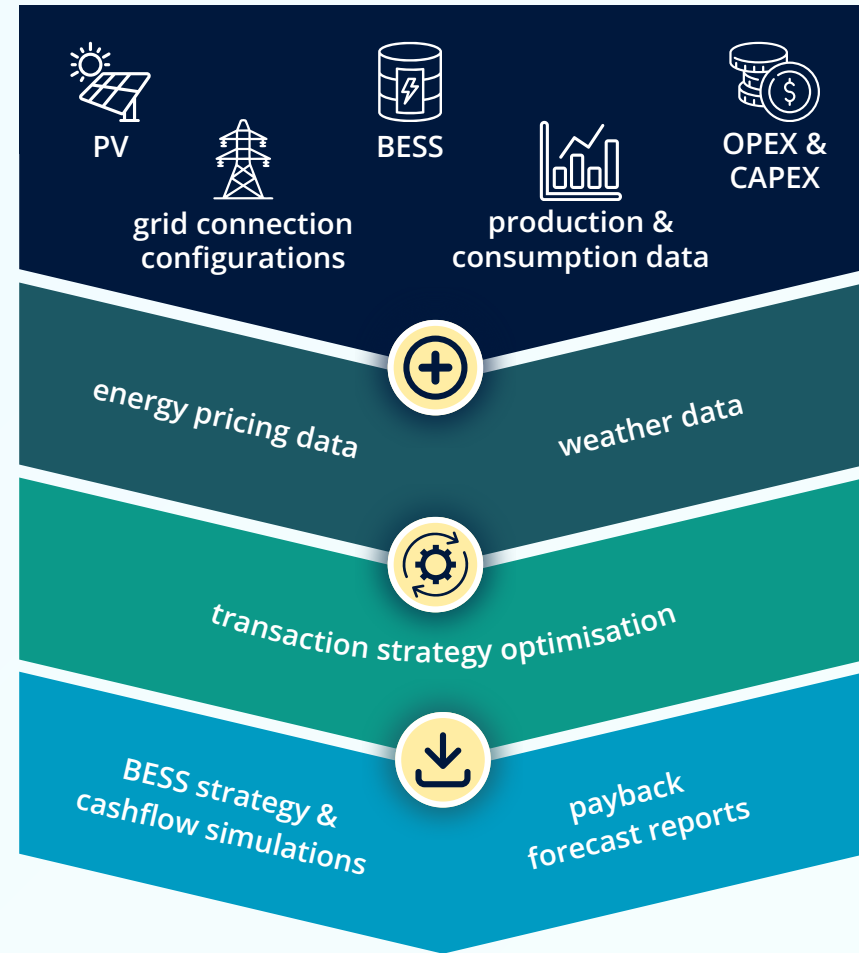
It combines project-specific inputs with market and weather data to simulate financial outcomes and support investment planning.

### Key capabilities

- ✓ PV production and consumption forecasting
- ✓ Energy trading strategy simulation
- ✓ Investment profitability modelling (IRR, NPV, payback)

### Who uses STYO

- ✓ Energy solution developers
- ✓ Technical sales engineers
- ✓ Energy asset owners
- ✓ Investors and financing partners



Date	Consumption [kWh]	Production [kWh]	Buying price [EUR/kWh]	Selling price [EUR/kWh]	Delta [EUR]	Charge/Discharge [kWh]	SoC [%]
2023-11-01 21:00:00	0	0.000001671850103	0.05315	0.05315	0		3
2023-11-03 01:00:00	0	0.0000009326275325	0.05117	0.05117	0.07759		3
2023-11-03 02:00:00	0	0	0.01147	0.01147	0.08129		3
2023-11-03 03:00:00	0	0.01685941416	0.01	0.01	0.08276		3
2023-11-03 04:00:00	0	0.002359601806	0.00573	0.00573	0.08703	Charge	30
2023-11-03 05:00:00	0	0.001222986101	0.01005	0.01005	0.08271		30
2023-11-03 06:00:00	0	0.0141712372	0.0236	0.0236	0.06916		30
2023-11-03 07:00:00	0	0.02385126207	0.05933	0.05933	0.03343		30
2023-11-03 08:00:00	0	0.2092948254	0.08882	0.08882	0.00394		30
2023-11-03 09:00:00	0	1.466607392	0.09276	0.09276	0	Discharge	3
2023-11-03 10:00:00	0	1.444485427	0.08959	0.08959	0.00046		3