DYNOVAPRO™

For Energy Management

The Intelligent Platform for PV, Battery Storage, Charging Infrastructure, and Grid Connections

Why dynovaPRO™ is the new standard in energy management.
Companies face the challenge of controlling their energy systems safely, efficiently, and flexibly. The simultaneous use of photovoltaics, battery storage, charging infrastructure, and a limited grid connection requires intelligent interaction of all components. dynovaPRO™ automates energy flow optimisation, increases grid stability, reduces costs, and creates full transparency across all assets.

Maximum Use of Renewable Energies

PV generation is analysed in real time and intelligently combined with loads, storage, and charging infrastructure. This increases self-consumption and reduces dependence on the grid.

Transparency Across All Energy Flows

Via dashboards and reports, operators have insight at all times into consumption, generation, storage levels, and load peaks. Decisions are made on a data-driven basis.

Optimised Interaction of All Energy Sources

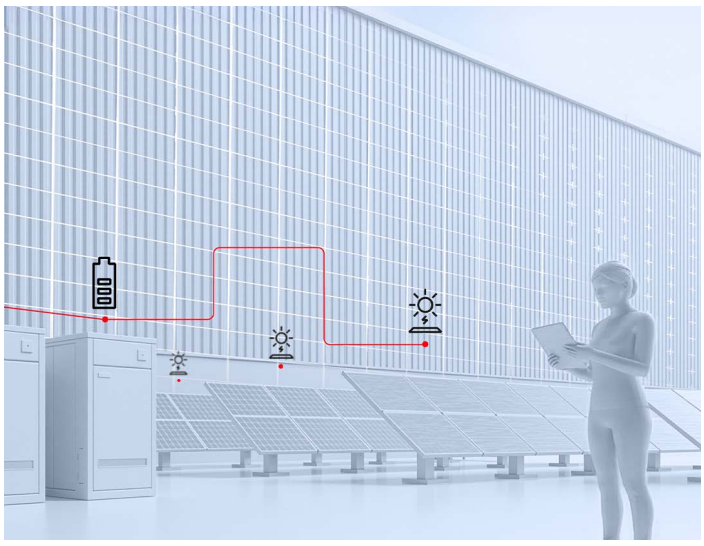
dynovaPRO™ automatically controls battery storage, charging infrastructure, and industrial consumers according to economic and technical criteria.

Grid Connection Protection & Bottleneck Prevention

The solution monitors available connection capacity and dynamically distributes energy flows. Load peaks are avoided and grid connections can be used more efficiently.

Flexibly Scalable for Every Use Case

Whether a single site, campus, or distributed infrastructure – dynovaPRO™ can be modularly expanded and integrated into existing systems.



ENGINEERED
TO OUTRUN

Use Cases in der Praxis

01 PV Integration

Optimises PV feed-in, forecasts generation, maximises self-consumption, and minimises curtailment.

02 Battery Storage Control

Storage systems are used for peak shaving, time-of-use optimisation, and grid stabilisation.

03 Charging Infrastructure Management

Manufacturer-independent control of all charging points, including prioritisation and dynamic power regulation.

04 Grid Connection Management

Automatic regulation of loads and generators in the event of imminent overload. Safe operation with limited grid capacities.

05 Multi-Site Energy Control

Central monitoring and control of multiple sites via a single system.

06 Pure Energy Management for Battery Storage & PV Projects

dynovaPRO™ optimises energy flows for large open-space PV systems and large-scale battery storage – independent of charging infrastructure. Ideal for project developers, investment companies, and operators of distributed energy systems that require an intelligent, electricity-based energy management system without charging station connectivity.

dynovaPRO™ Features

Architecture

- Cloud-based control and real-time monitoring
- Local edge controller for autonomous sites
- Alarm notifications and status monitoring
- Fail-safe operation in the event of grid or cloud failure
- Multi-site reporting
- Role-based user management

User Interface

- Visualisation of PV, BESS, and all connected assets

Optimisation Functions

- Dynamic load distribution
- Peak shaving
- Automatic prioritisation of energy consumers
- Self-consumption optimisation
- Energy scheduling based on price forecasts
- CO_2-optimised operating strategies
- Schedule creation and scheduling

Integrable Components

- PV systems
- Battery storage (AC and DC coupled)
- Charging infrastructure (OCPP)
- Load measurements and grid specifications (IEC104)
- External forecast data for weather and energy prices

Protokolle & Kompatibilität

Protocols:
OCPP 1.6, OCPP 2.0.1, IEC104, Modbus TCP, Modbus RTU, OPC UA

Energy components:
PV inverters, BESS controllers, charging stations, energy managers, metering systems

Backends:
chargecloud, skycharger, Shell Recharge Solutions, Vattenfall InCharge, and many more

For project developers & planners, commercial and industrial customers with own use of PV and storage assets, operators of multiple sites (multipliers), investment companies, and operators of large battery storage projects.

Discover more on our website or contact us
for a no-obligation consultation.

Discover now

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