cway

Supervision and smart-charging

mobility

Optimise the operation of your electric buses and the management of energy flows.

The electrification of transport modes will have a major role to play in significantly cutting GHG emissions. Electrification of transportation systems, like buses, offers an important approach in the fight against climate change, but it requires a paradigm shift in operations.

Operation of electric vehicles requires new monitoring and control tools.

Cway is a software solution to manage your depots and control your operations, while controlling your energy consumption.

Manage your electric depot.

Cway. Intelligent depot, operations and load management solution.

Control of operation

Transparency :
Cway supervises your depots and controls all your charging sessions. Cway interfaces with any brand of charger for for total independence.

Control :
The software validates the adequacy between the operating schedule and the capacities of the electrical infrastructure.

Real-time management :
You have an overview of your depot, your electrical installations and the occupation of parking places.

Availability of installations :
You make the right decision at the right time thanks to alerts and remote controls.

Control of your investments and operational expenses

Investment :
In design phase, you estimate your needs as accurately as possible to minimise your infrastructure investments.

Electricity cost :
You reduce the energy bill by acting on the subscribed power and the time range of consumption.

Asset management :
You monitor the performance of your electrical installation.

Scalable :
Cway supports you throughout your transition to an electric fleet from demonstration to full electrification.

A necessary tool for the operation of your electric fleet.

Easily control your entire operational environment.

Cway. The operational control of your transport system.

Control

- Monitoring tool independent of vehicles and chargers' manufacturers
- Automatic charging transaction restart to maximise vehicles's availability
- Remote manual control
- Integrated detection of operation issues
- Centralized alarms for total responsiveness

Ease of Operation

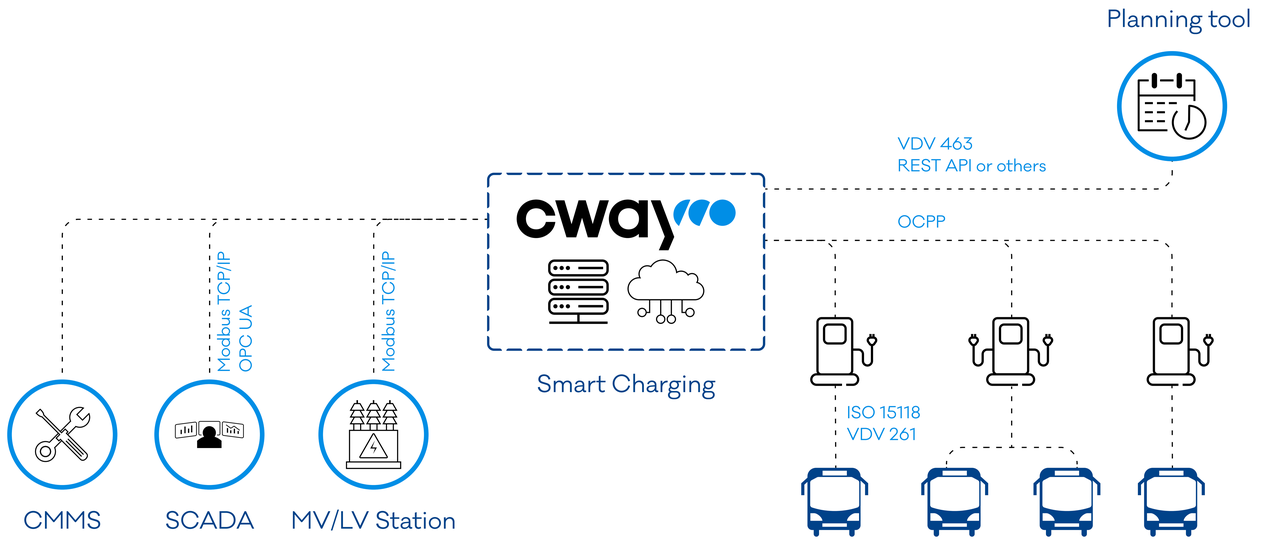
- Seamless charging session start thanks to vehicle recognition
- Highlighting of incompatibility betwenn charging process and vehicle planning
- Customised depot view
- Automatic adaptation to operational and technical contingencies

Choose a software that grows with your fleet.

Cway. The solution for electric mobility.

Interoperability & Adaptability

- Standardised communication protocols for interface with all brands of buses and chargers (OCPP, ISO 15118 / VDV 261)
- Adaptability to operating softwares (REST API, VDV 463)
- Integration into local IT environment (on-premise) or Cloud-based solution



They work with us

Choose a software that grows with your fleet.

Cway. The solution for electric mobility.

Scalability & Modularity

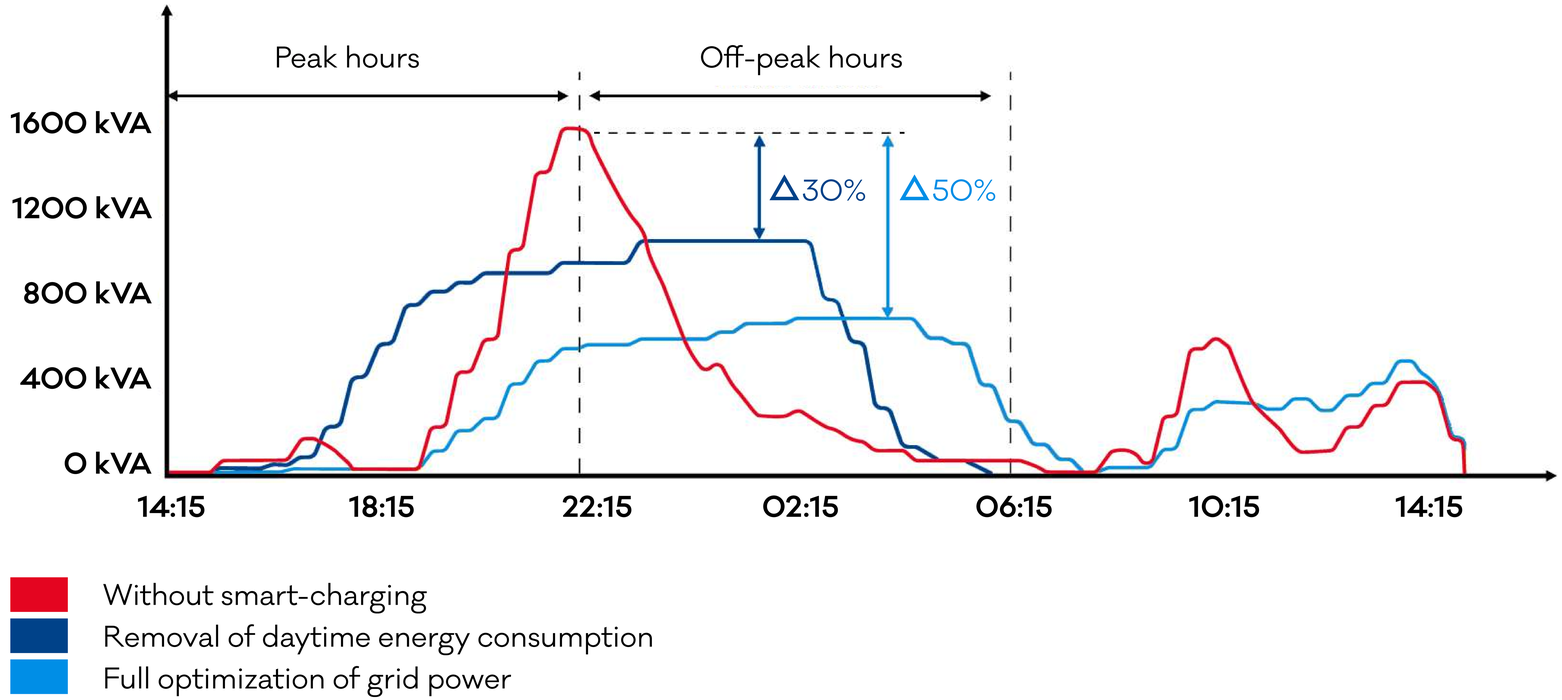
- Scalability from a few vehicles to over 300 units
- Modular architecture adapted to the user's needs
- Multi-depot supervision and opportinuty charging

Savings

- Downsizing of electrical installation and grid connection power
- Downsizing of subscribed power thanks peak shaving
- Consideration of electricity costs in option

Return on Investment in 3 to 5 years

- 30 to 50% reduction in subscribed power
- 10 to 20% savings on electricity bills



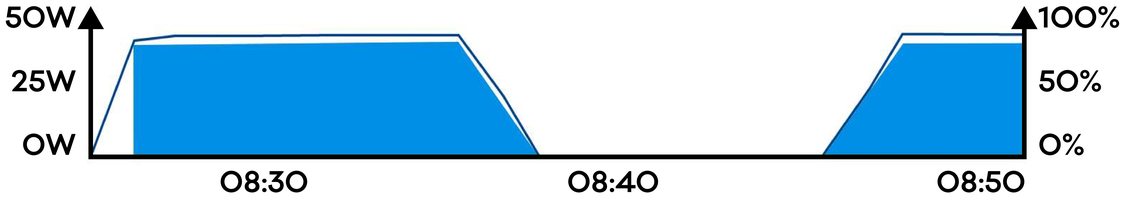
Centralise all the charging data of your fleet.

Cway. Easy access to operational statistics.

Vehicle, charger & operation

Cway interfaces with the electrical infrastructure, chargers, buses and planning tool. The statistics module offers data historization and report functions :

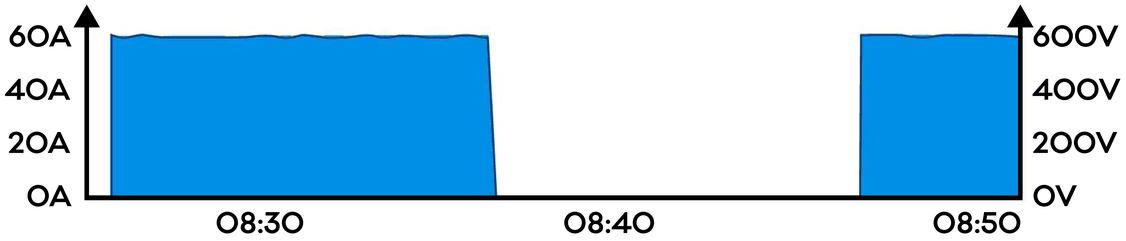
- Charging transactions' logging : Energy, SoC, charging time, power
- History of failures
- Operational reports on : Grid connection, chargers, vehicles and operation
- Chargers' reliability



Power / SoC

Measured Power Min : OkW Max : 44,7kW

Battery SoC Min : O% Max 83%



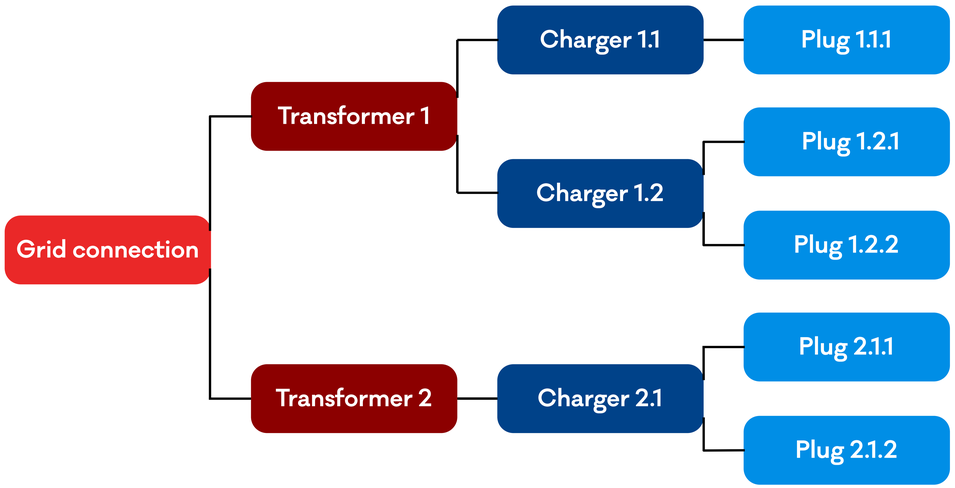
Current / Voltage

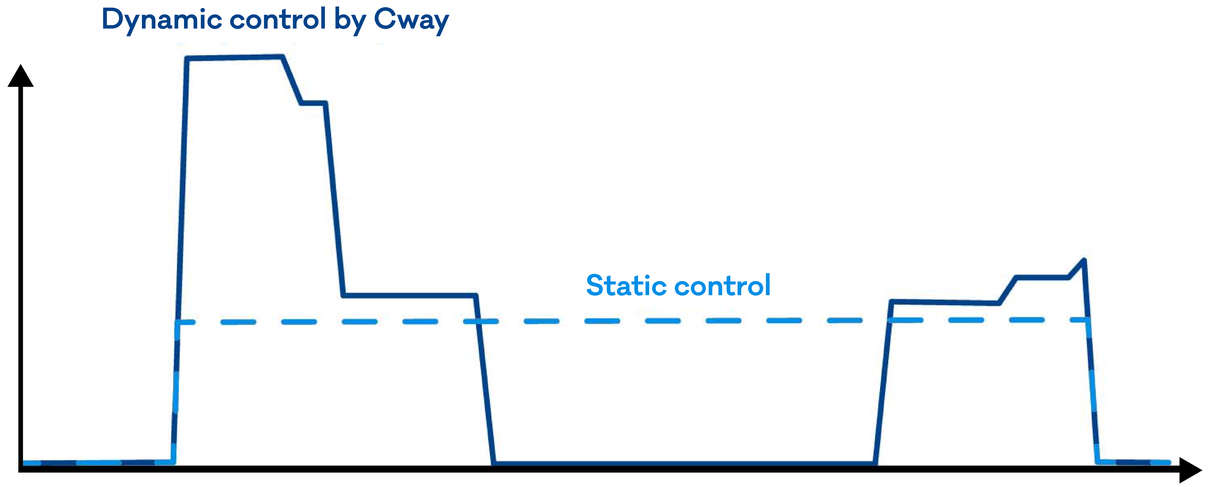
Import current Min : OA Max : 67A

Battery voltage Min : OV Max 668V

Optimise energy flows.

Cway. The optimisation of the global charging process.





The optimization engine accuretaly estimates the charging process of each vehicle by taking into account all operational parameters :

- Electrical characteristics of the entire MV/LV installation from the grid connection to each plug
- Integration of the battery charging curve
- Dynamic control of the charging process
- Configurable management of non-resolution cases with automatic bus prioritisation
- Automatic adaptation of the charging sequence to daily operating events (late arrival, low SoC...)

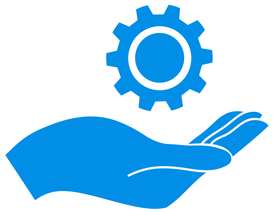
Choose an offer that fits your needs.

cway

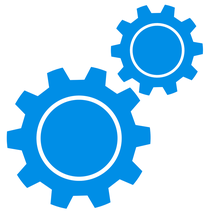
IT infrastructure
- Design study
- High availability
- Cybersecurity

Maintenance
- Integrated logging & monitoring
- 24/7 remote support
- Preventive maintenance

Software
- Base “Supervision”
- Base “Smart-charging”
- Additional modules



Service & Project management
- Consulting
- Training
- Initial setup
- Commissioning



Tailor-made development
Because each customer is different, we listen to you: Smart-Grid, renewable energy, integration in your IT environment...

Make a winning choice for the future.

Cway. A modular, adaptable and scalable software.

Cway consists of two application bases: "Supervision", and "Smart-charging" for users wishing to actively control the charging process of their vehicles. Each base can be completed by several additional modules. The addition of a module is completely transparent for the operator, even after commissioning.

Supervision

Base	Add-on
Reports	Custom depot view
Real time monitoring	Active Directory
Fault warnings	e-Mail notification
Notifications	Parking space presence detection
Manual control	
User management	

Smart-charging

Base	Add-onl
Grid power limitation	Energy cost
Charging schedule	Planning tool interface
Battery charging curve	MV/LV station interface
Optimization engine	Preconditioning
	SCADA interface
	CMMS interface

Expert

Base
Multi-plug charger

Operation

Add-on
Preproduction environment
Vehicle monitoring interface
Manual vehicle assignment
Multi-depots

Smart grid

Add-on
Stationary storage
Other consumers at location
Grid interface
Photovoltaic plant

Key figures.

The French cities of Lyon, Orléans, Toulouse and Marseille already use Cway. Let's talk about your project.

Figures in 2023 :

- **7** transport network
- **+110** chargers
- **+10** MW daily controlled
- **21** MWh/day
- **140** daily charging sessions
- **17** tons of CO2 saved/day

enjoy the way

mobility-way.com