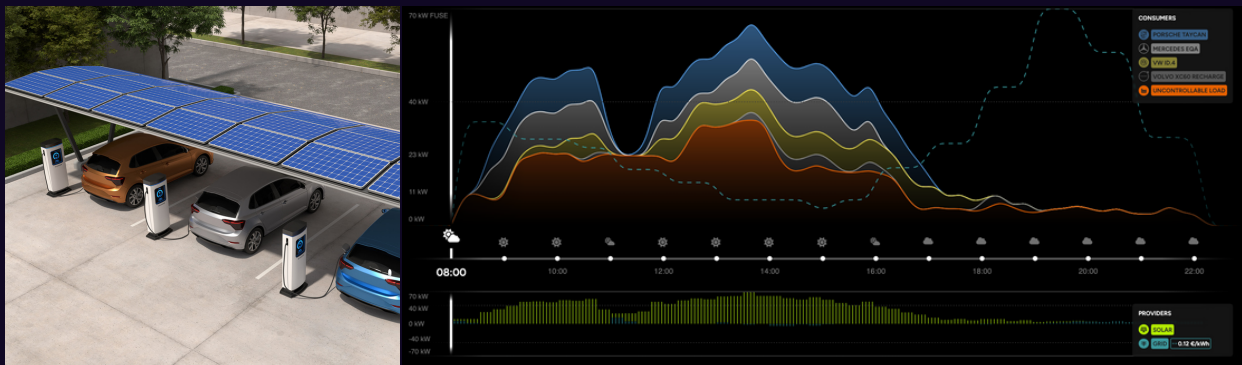


## Smart Charging API for workplaces

Charge42 offers the first “real” Smart Charging Solution, designed for businesses and facility managers that drastically lowers the cost of charging. We do so by planning for aggregated individual vehicle demand, considering local PV production & building load, connection constraints, grid peak penalties and dynamic energy prices.

We offer an **API service** to connect with our unique optimization algorithm that plans charging sessions and battery behavior in time, so the right cars are charged at the right point in time, at the lowest possible cost, at a 15 min recalculation interval.

Charge42 is a **spinoff of VITO**, an independent Flemish research organisation in the area of cleantech and sustainable development. 10 years of research in energy forecasting and optimization went into our award-winning algorithm.



## Benefits



Savings up to  
€75 / Charging Point / Month



Maximized amount of cars  
charged within constrained  
connection



Maximizing financial return  
of PV & stationary battery



Complex electrical  
topology support

## Features

- Virtual complex site configuration and onboarding
- PV & Uncontrollable Loads forecasters
- Configurable Charge plan Optimizer, taking into account
  - User departure time and required amount of driving autonomy
  - Forecasted PV energy
  - ToU grid tariffs & commodity prices for both injection & consumption
  - Technical and economical peak threshold
  - (Aggregated) non-controllable building load
  - Local battery
  - Priority charging
- Monitoring, alerting and benefit reporting

## API Products

- Site Topology API
- PV & UCL Forecasting API
- Smart Charging Optimizer API
- Insights and benefits API

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