

From Smart Charging to Intelligent Scheduling

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vito



Energy
Ville



pleevi

Optimizing **EV fleets** since 2020

- Since 2020: VITO/Energyville Energy Management Research
- 2023: Spin-off initiative Smart Charging
- 2024: Incubation Venture studio
- January 2025
 - Standalone company foundation & €1M capital increase
- Today
 - +1000 charging points optimized with Pleevi
 - +30 EV hubs
 - 2 partnerships
 - Team of 5 (soon 6)



ANGELWISE



SEEDER FUND

noshaq



qbic fund



The Problem

Charging electric fleets remains **costly, unpredictable,** and **increasingly complex** to manage.



Unpredictable Operational Costs
Changing Energy Contracts
Local energy production

...



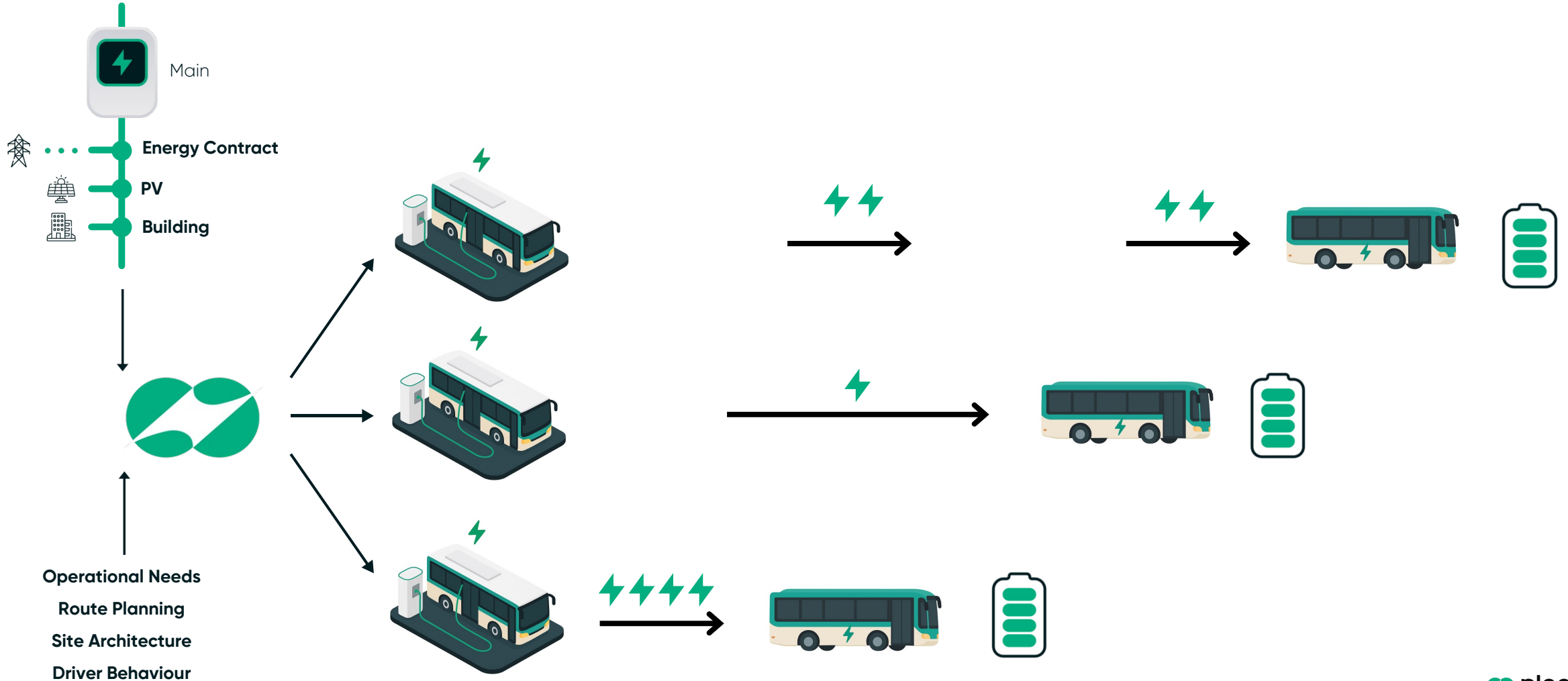
Insufficient power supply
Driver behaviour dependency
Complex Site Architecture

...

Rule-based solutions are not sufficient

The Solution

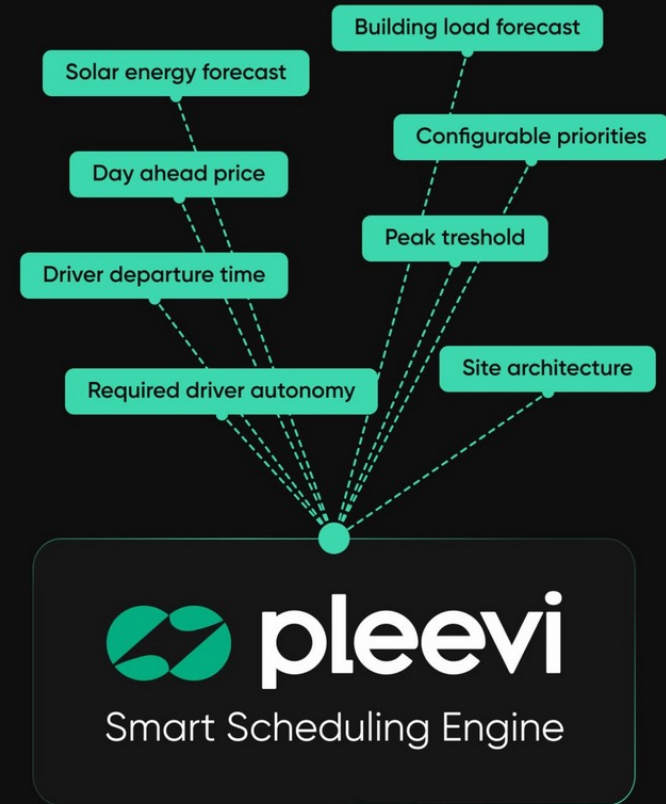
Pleevi tackles that by turning charging complexity into **predictable performance**

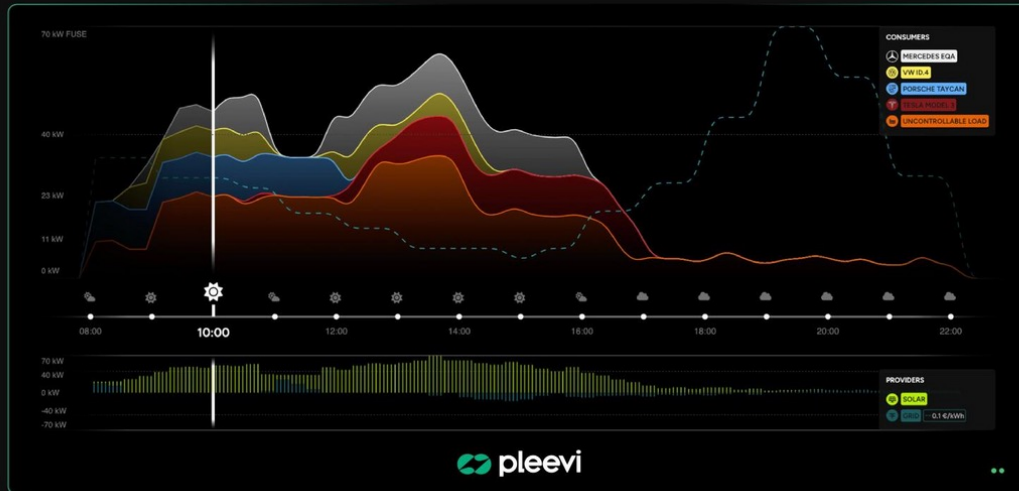


	Smart Load Balancing	Smarter Rule Based planning	Intelligent & future proof Pleevi
Fuse protection			
Maximized (local) energy			
Building demand forecasting			
Priority charging			
Departure time integration			
Complex site management			
Energy & grid price planning			

- DATA INPUT

Comprehensive data model
enhancing local measurements
with our proprietary forecasting
models





● OUTPUT SCHEDULE

Cost-optimized power profiles
for the next 24 hours, realtime
updates on local events

— Pleevi empowers **partners** to

Launch a branded smart scheduling service

Capitalize on your existing customer base by offering a turnkey solution

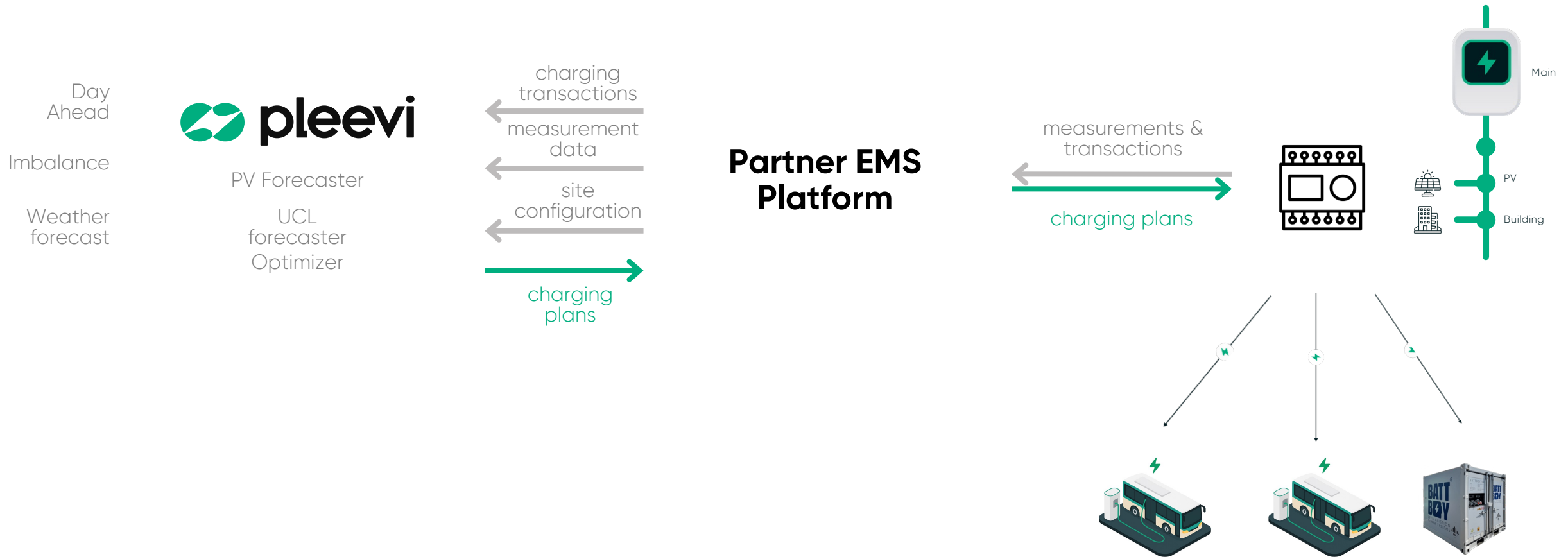
Expand your revenue streams

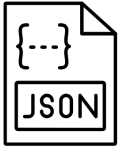
Add a high-potential, future-proof vertical to your business
— no need to build from scratch.

Generate recurring revenue

Capture your own margin on top of Pleevi's service — aligned incentives, shared success.

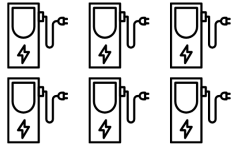
Partner integration overview





Site topology

One time onboarding



Charging points

 < 5 minutes



- Energy meter values
- Charging Transactions (OCPP based)
- Departure time
- Requested Energy



Solar panels

 < 5 minutes



Energy meter values



Building load

 < 5 minutes



Energy meter values

Day-ahead price
Weather forecast



Solar production forecaster
Uncontrollable load forecaster

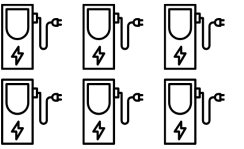
 Every 15 minutes



24h Power profile
per charging point



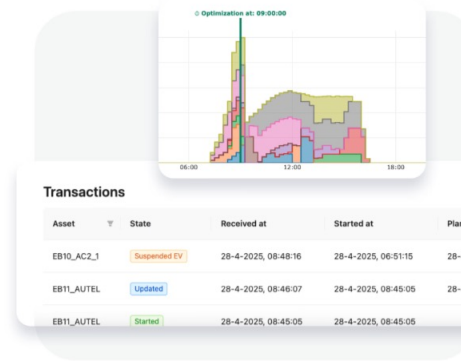
Local Control



Fast, Flexible Integrations for Energy Innovators

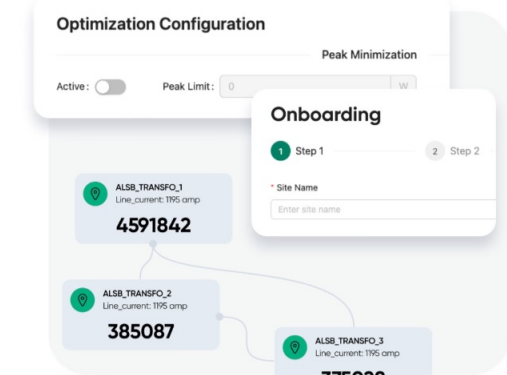
Onboard Any Charging Site in Minutes

Start optimizing a parking instantly by sending the site's configuration and energy context to our scheduling engine—no complex setup required.



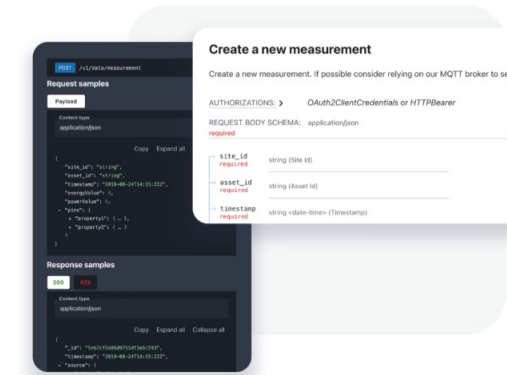
Full API Access for Deep Platform Integration

Access all functionalities and insights from our scheduling engine via API—fully automatable, integrable, and ready to scale without manual intervention.

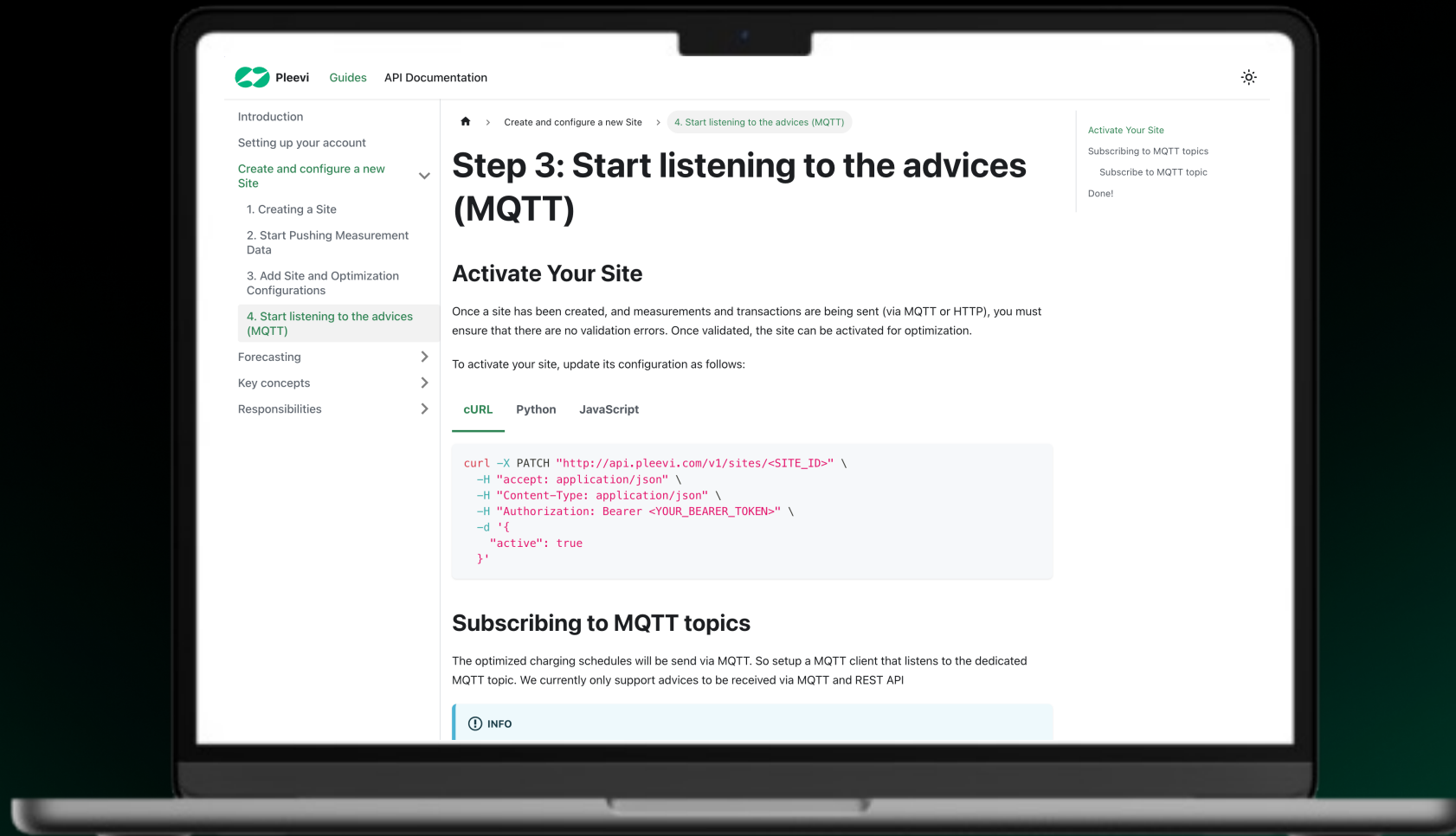


Real-Time Insights from Our Smart Scheduling Engine

Monitor and analyze charging schedules in real time with actionable data—track performance, usage, and optimization results at a glance.



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Our partners' testimonies



Frederik Leempoels

Product Manager AI-enhanced Energy Management
at Phoenix Contact

"Pleevi provides us with a reliable solution for our complex sites with robust power profiles, combining all of our charging possible rules into their flexible powerful engine. We've been working with them since the beginning of our development for an AI powered energy management system and they've proven to be a very reliable and flexible partner throughout this process."

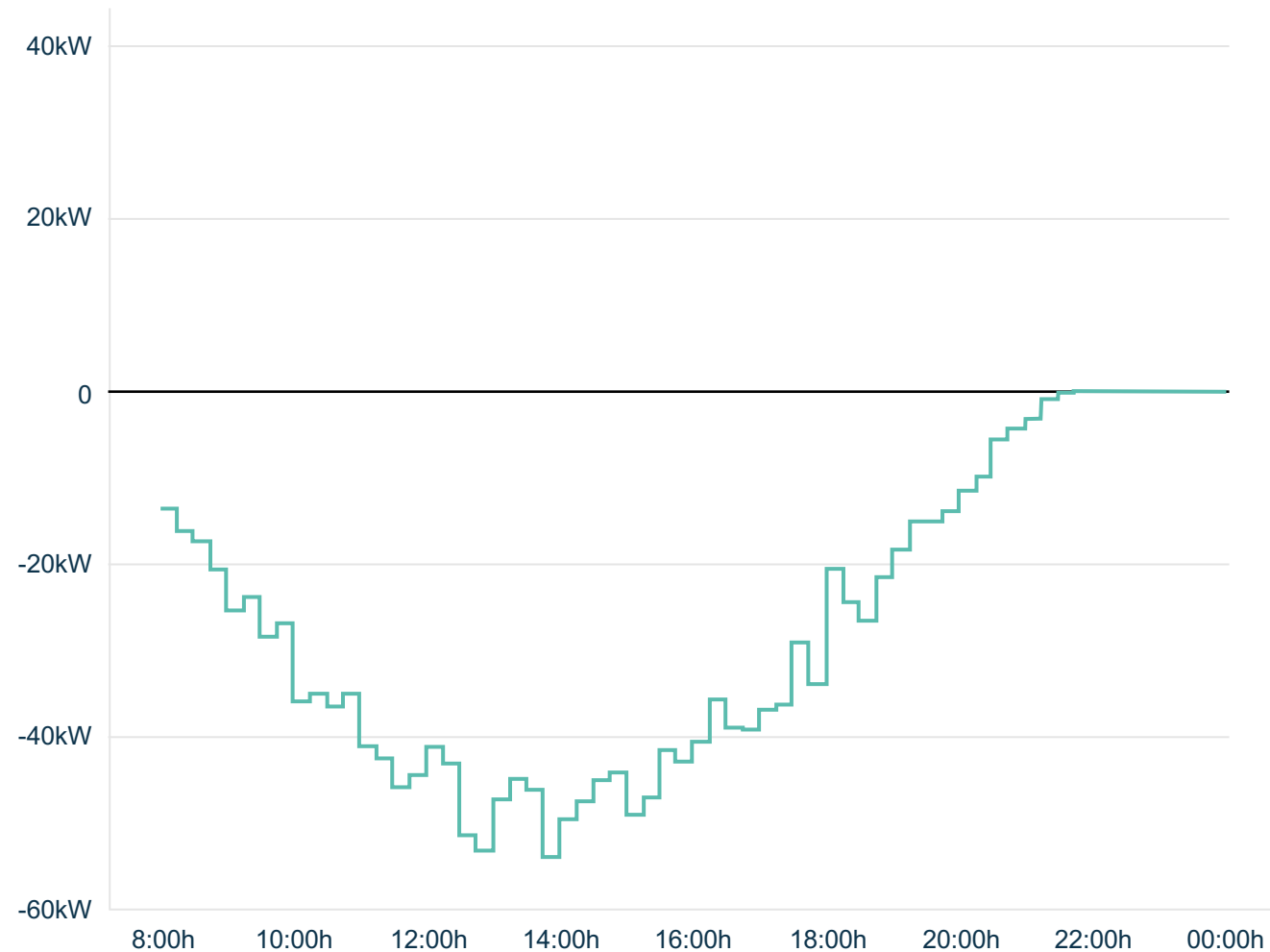
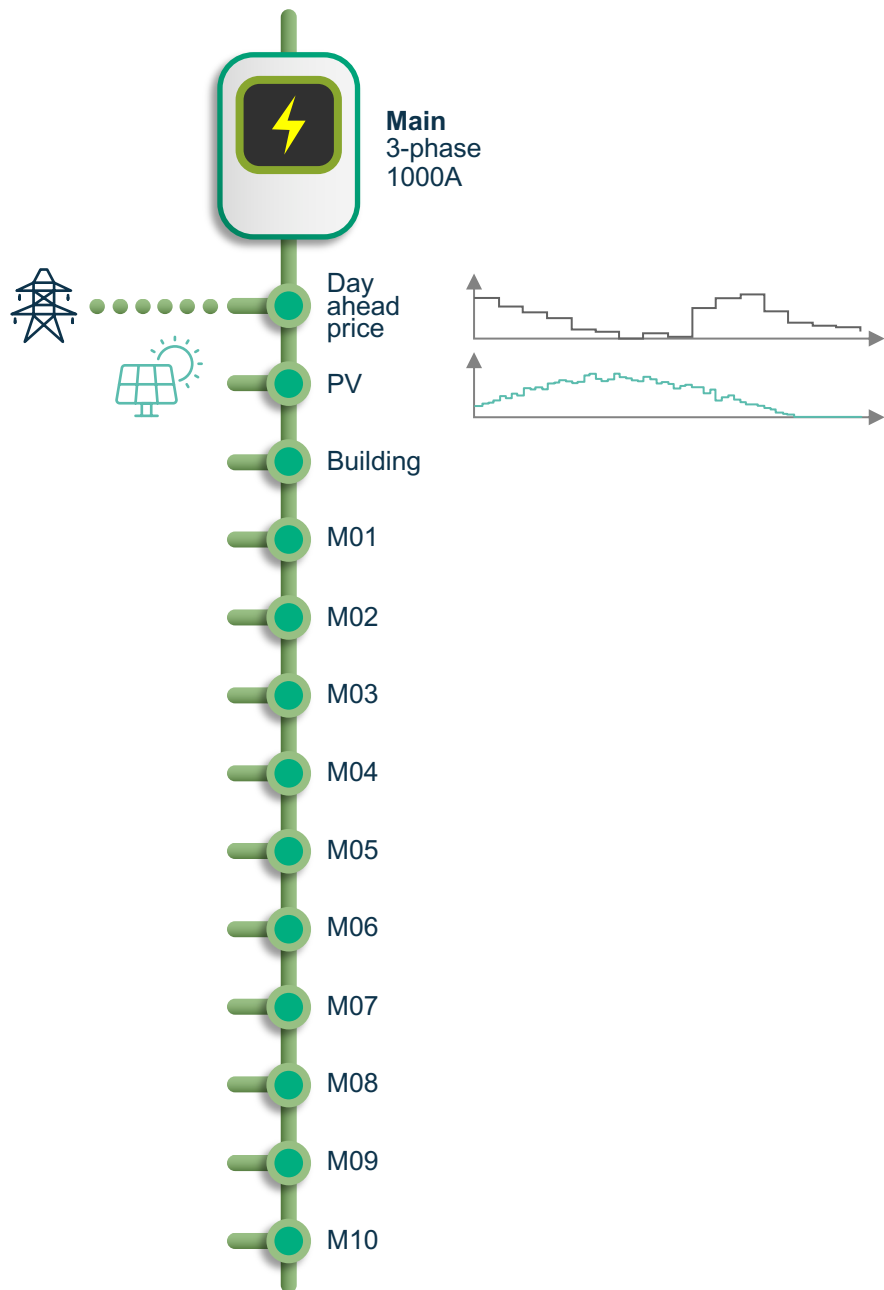


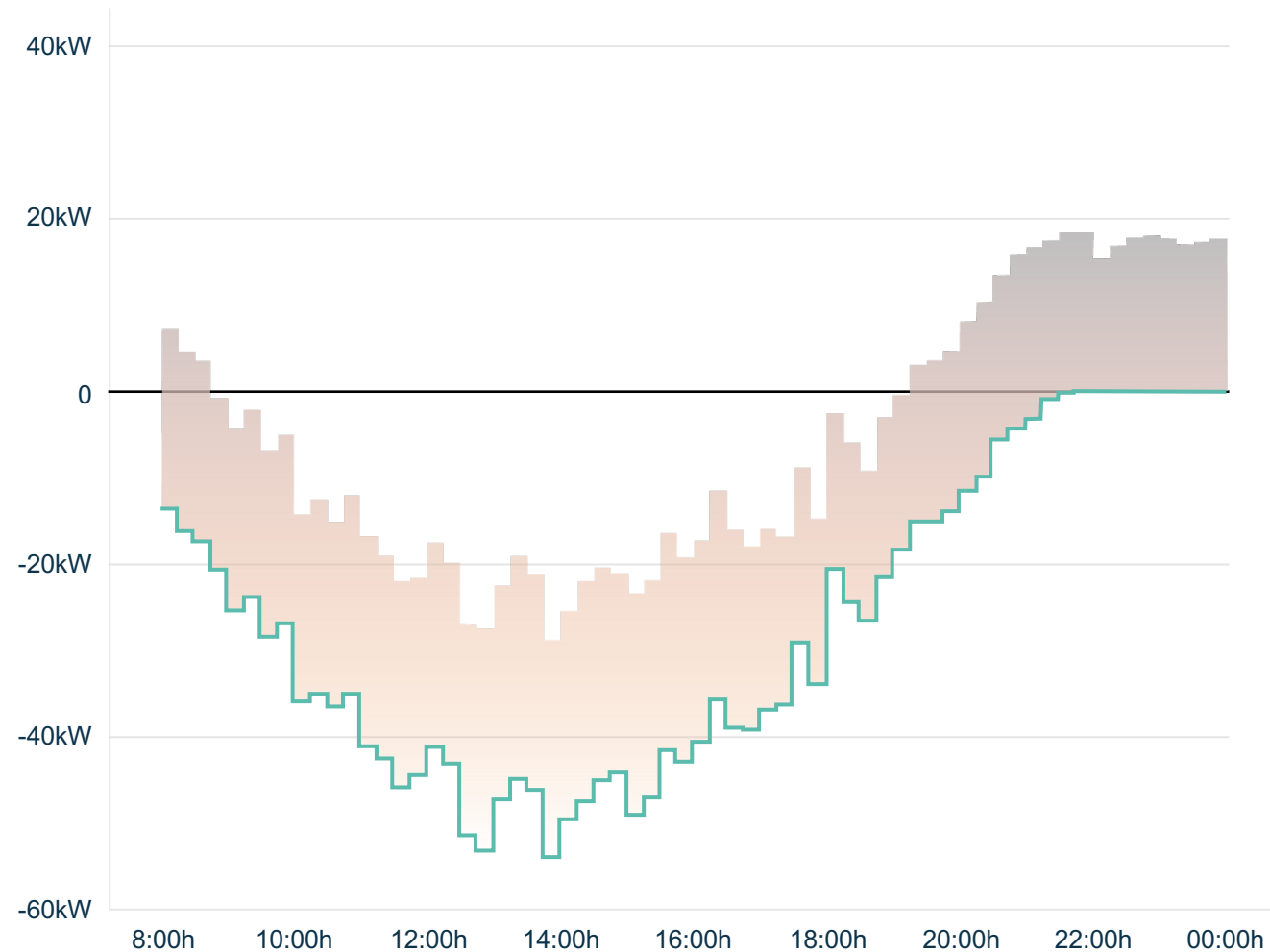
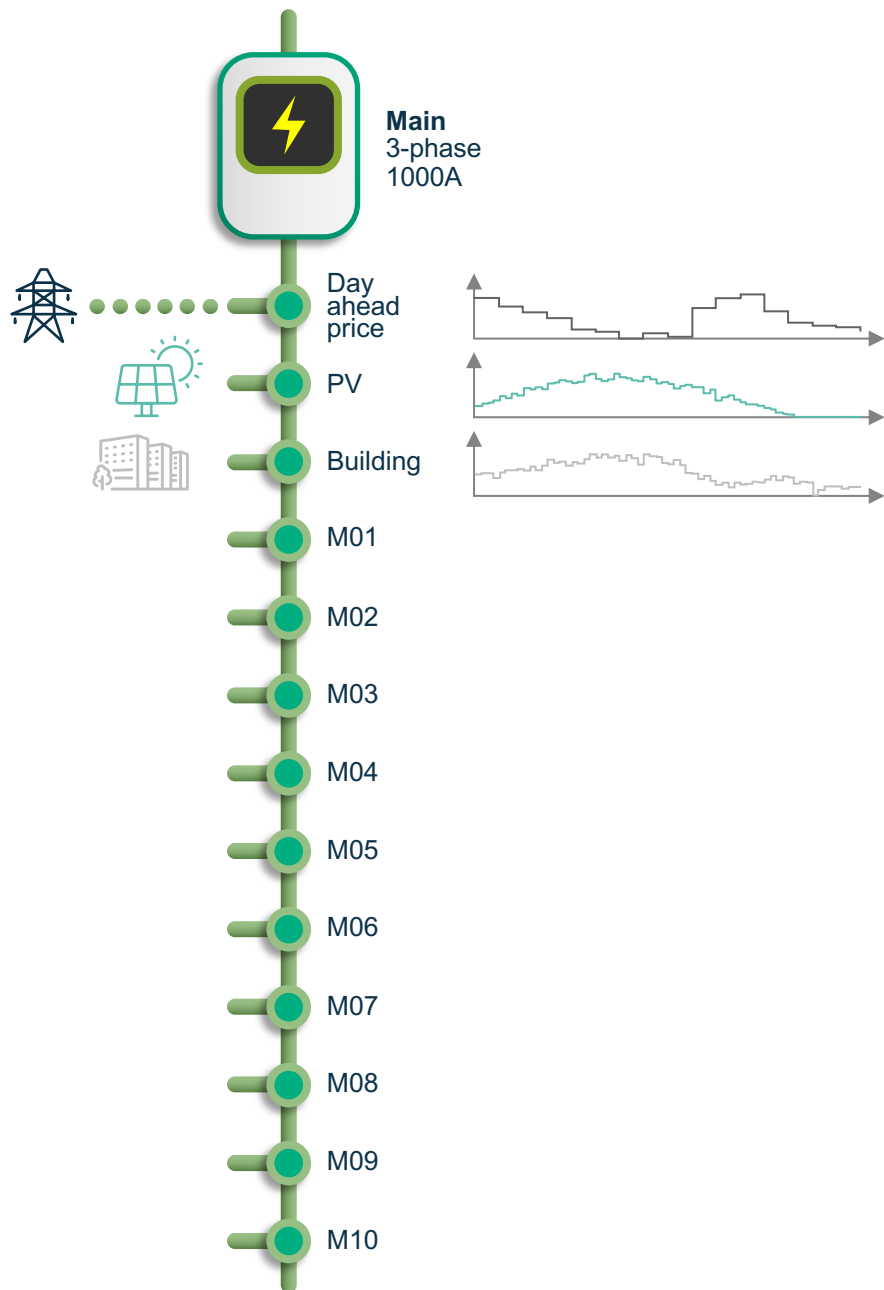
Pascal Kinoo

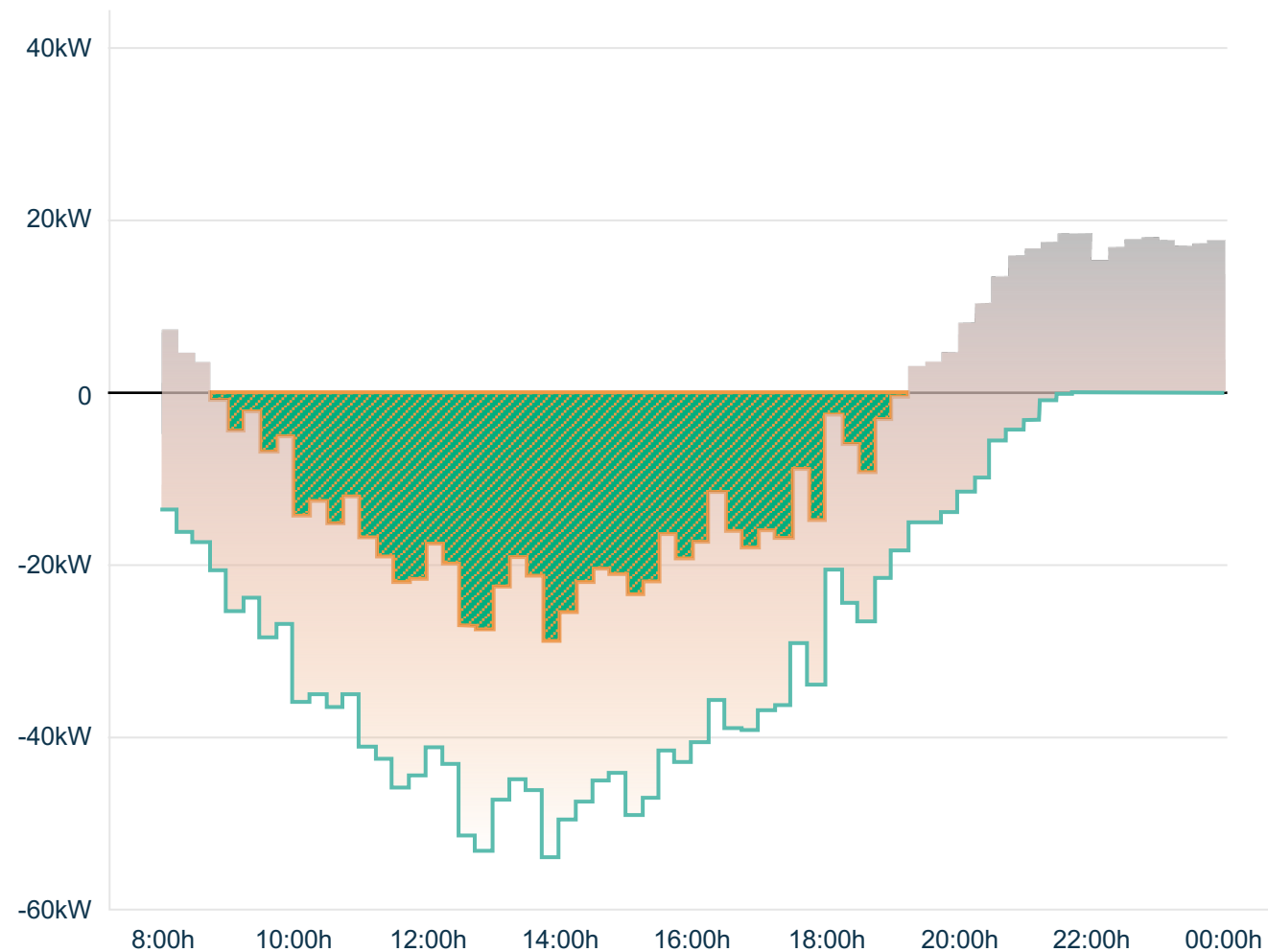
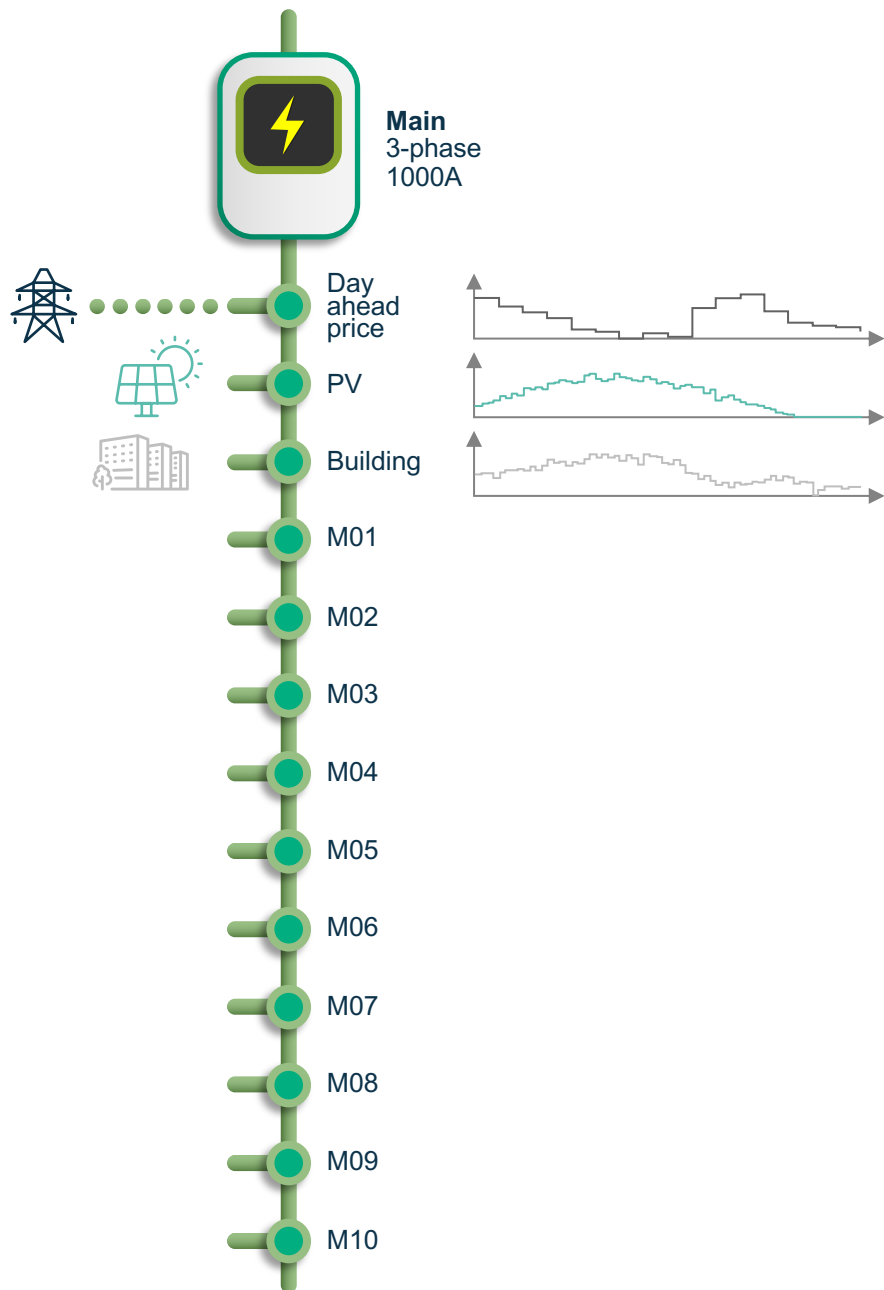
Smart & Sustainable Building Management at VMA

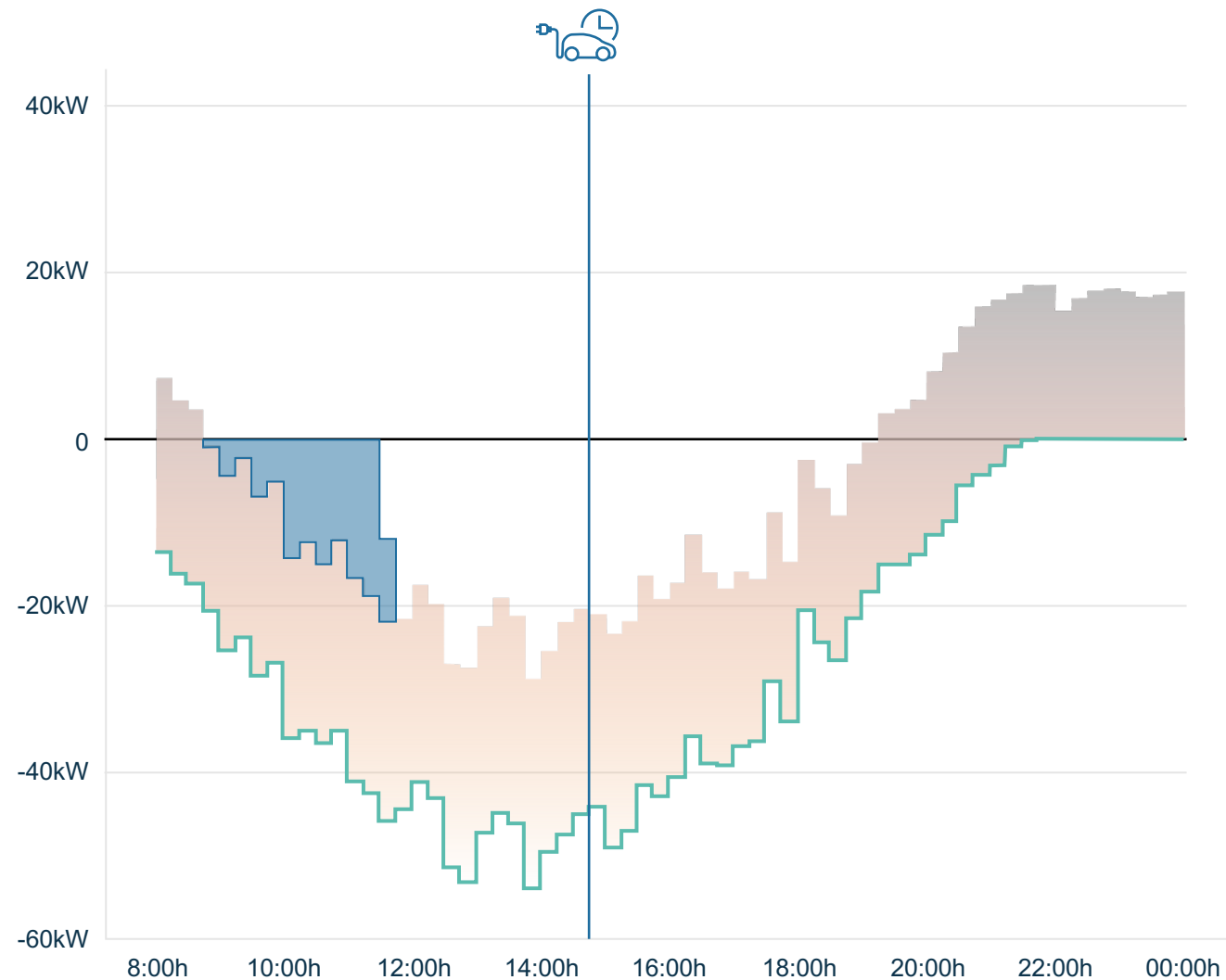
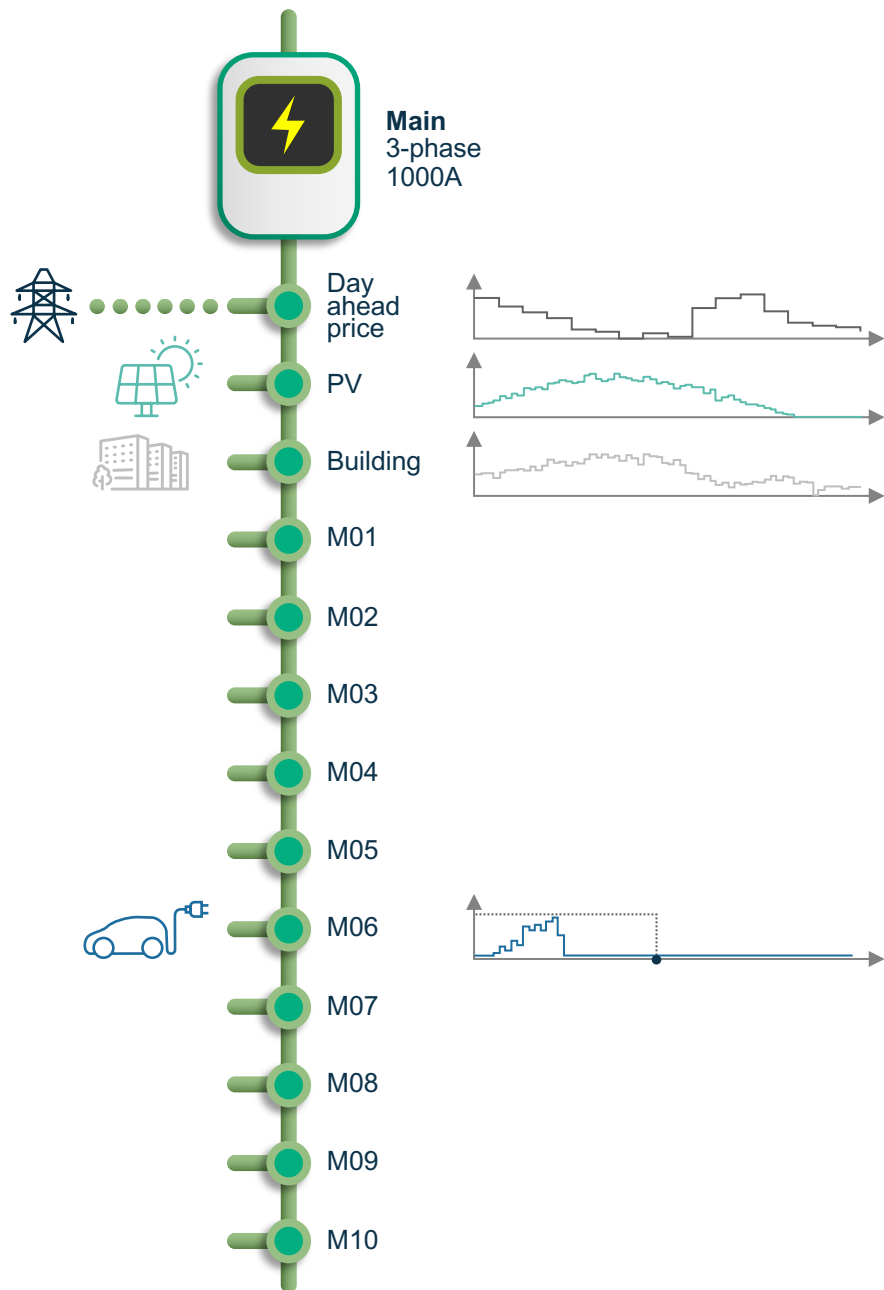
"Integrating Pleevi's flexible APIs into our VMANAGER platform has empowered us to maintain full control in buildings while optimizing our charging operations. Pleevi provides real-time insights, enabling us to deliver a smarter and more reliable EV charging experience for all our clients."

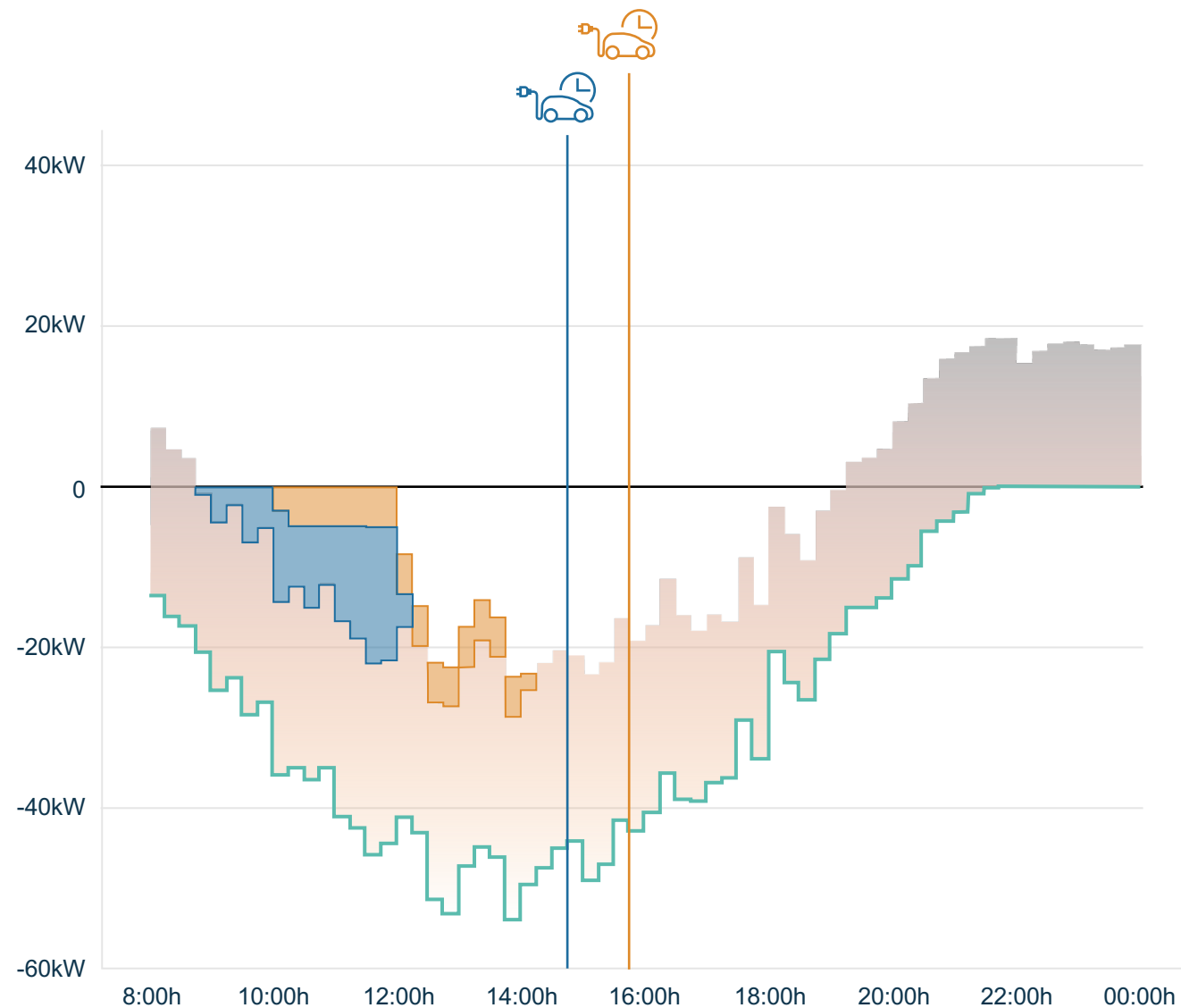
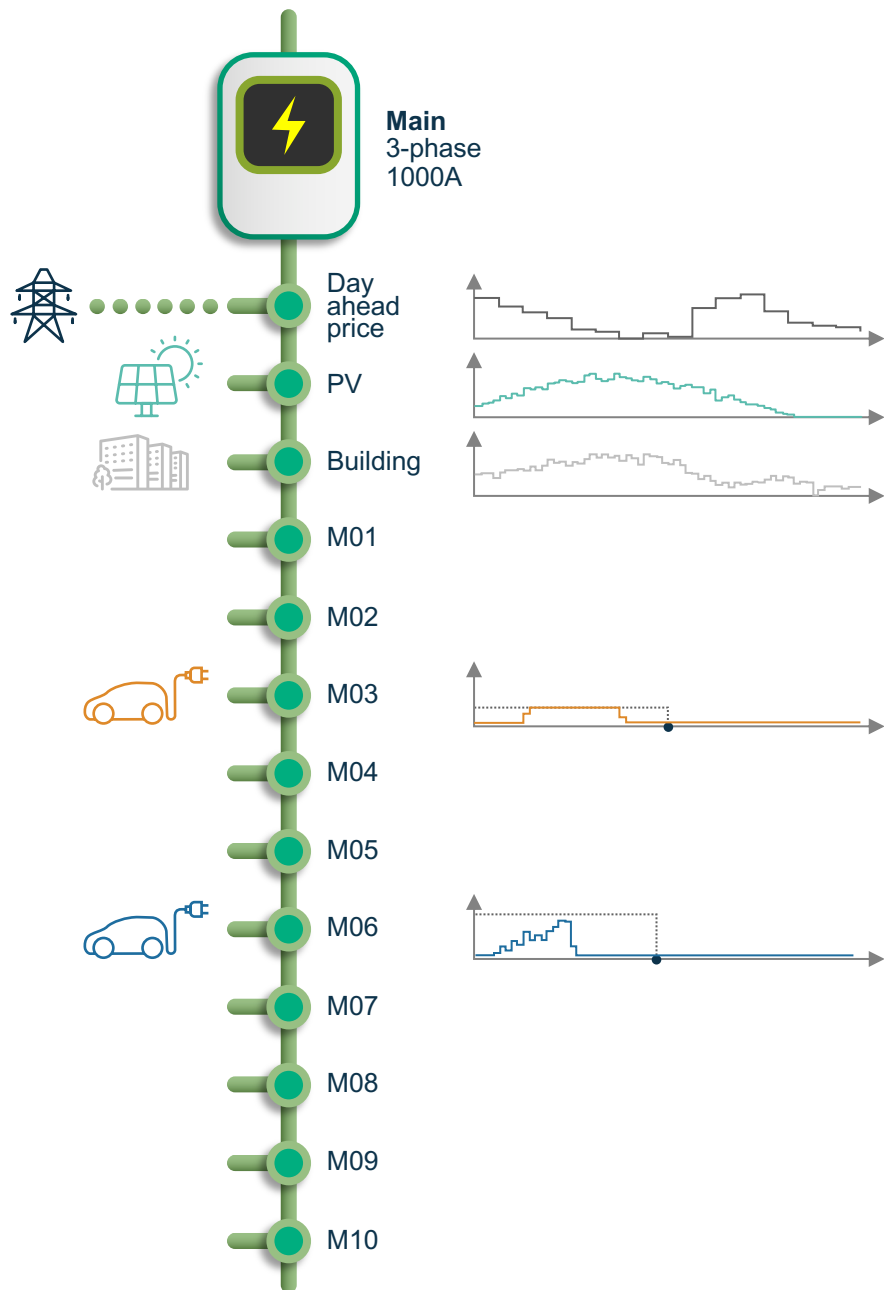
Demo

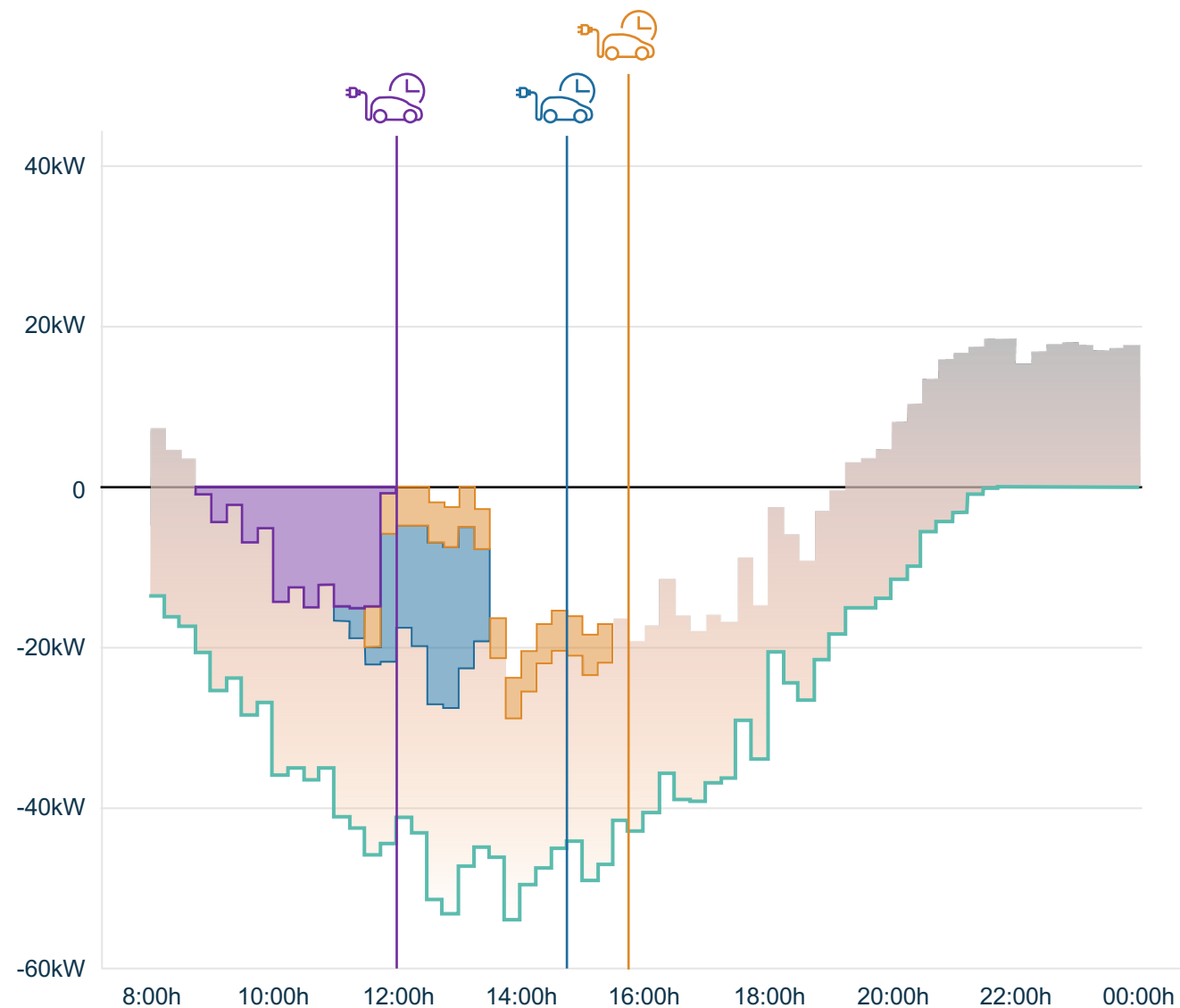
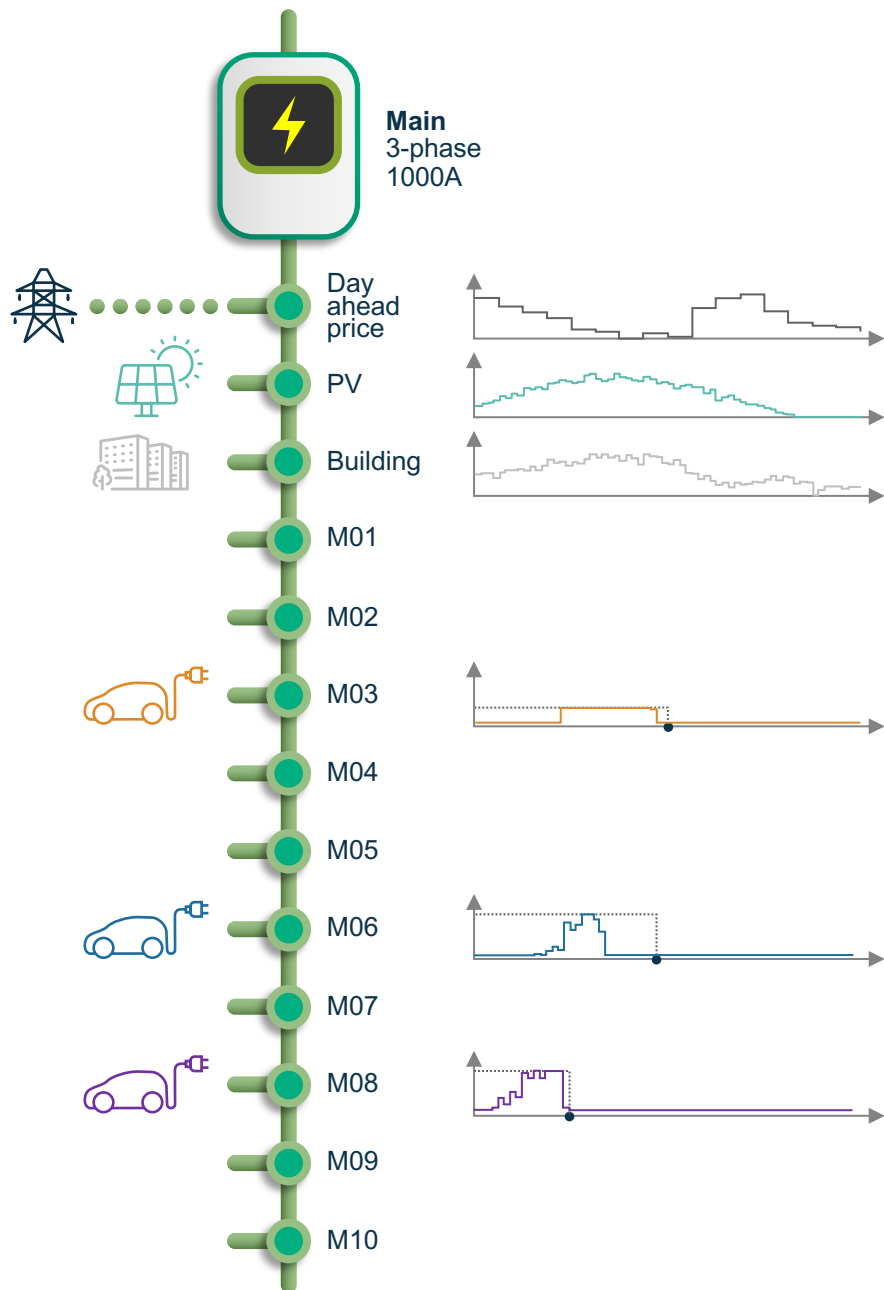


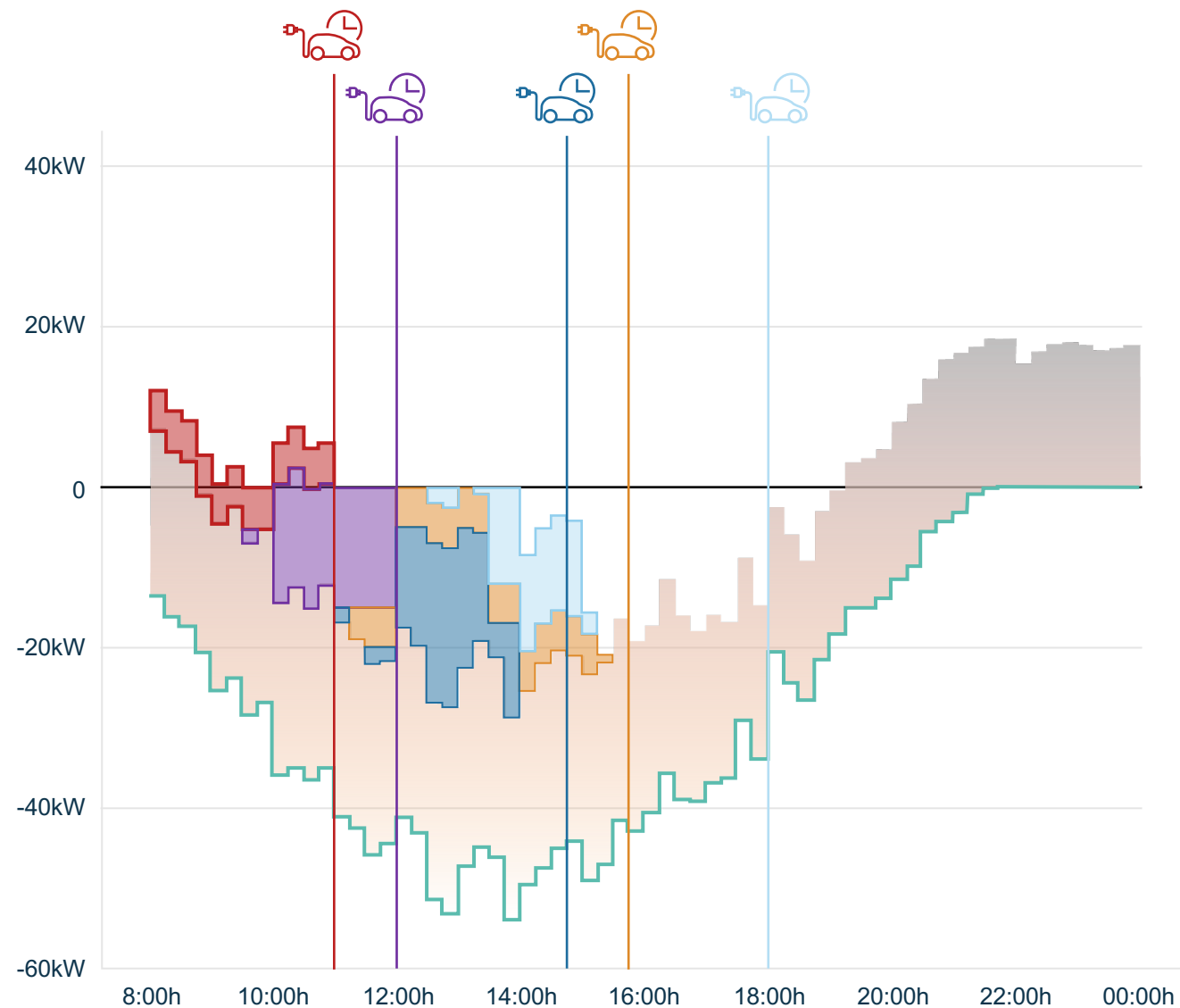
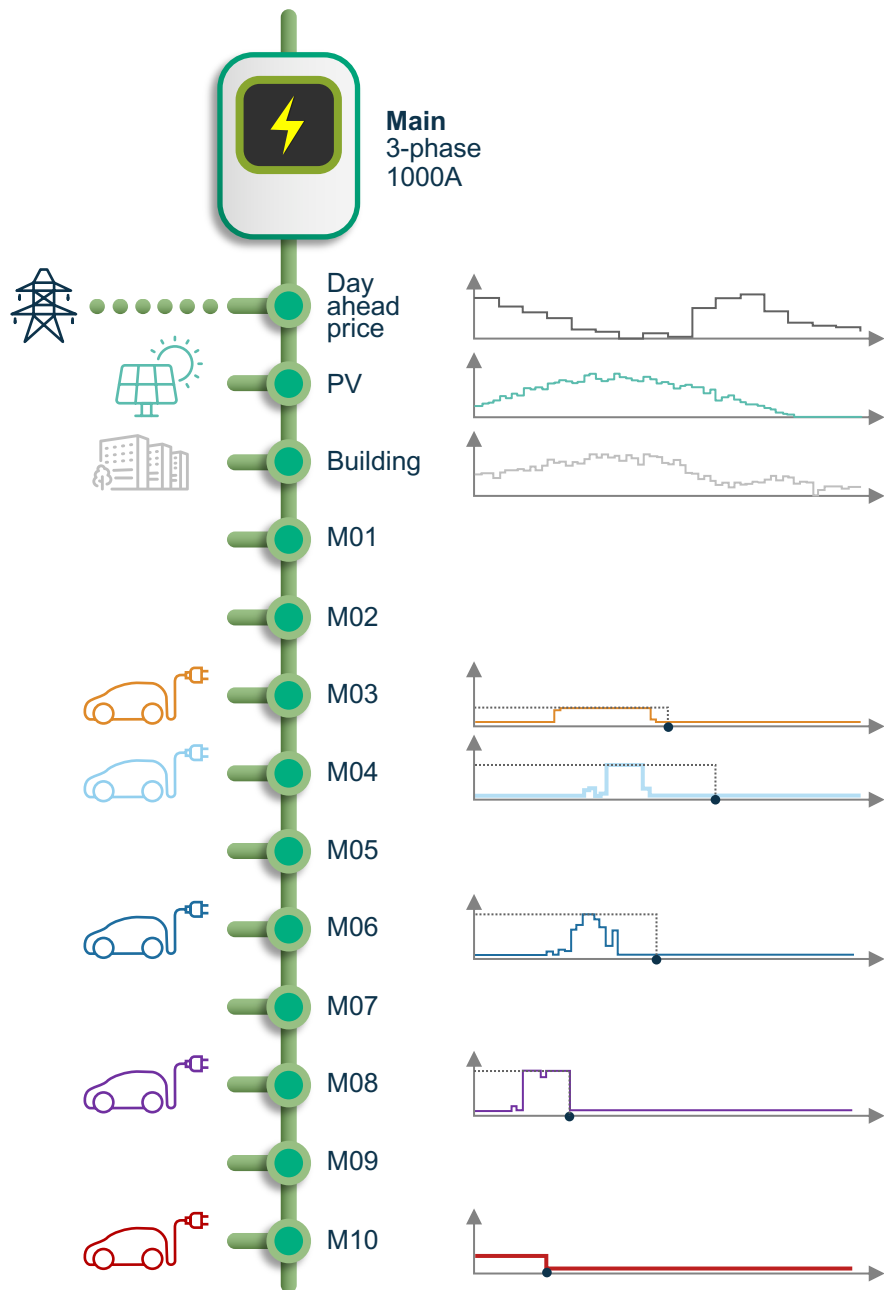


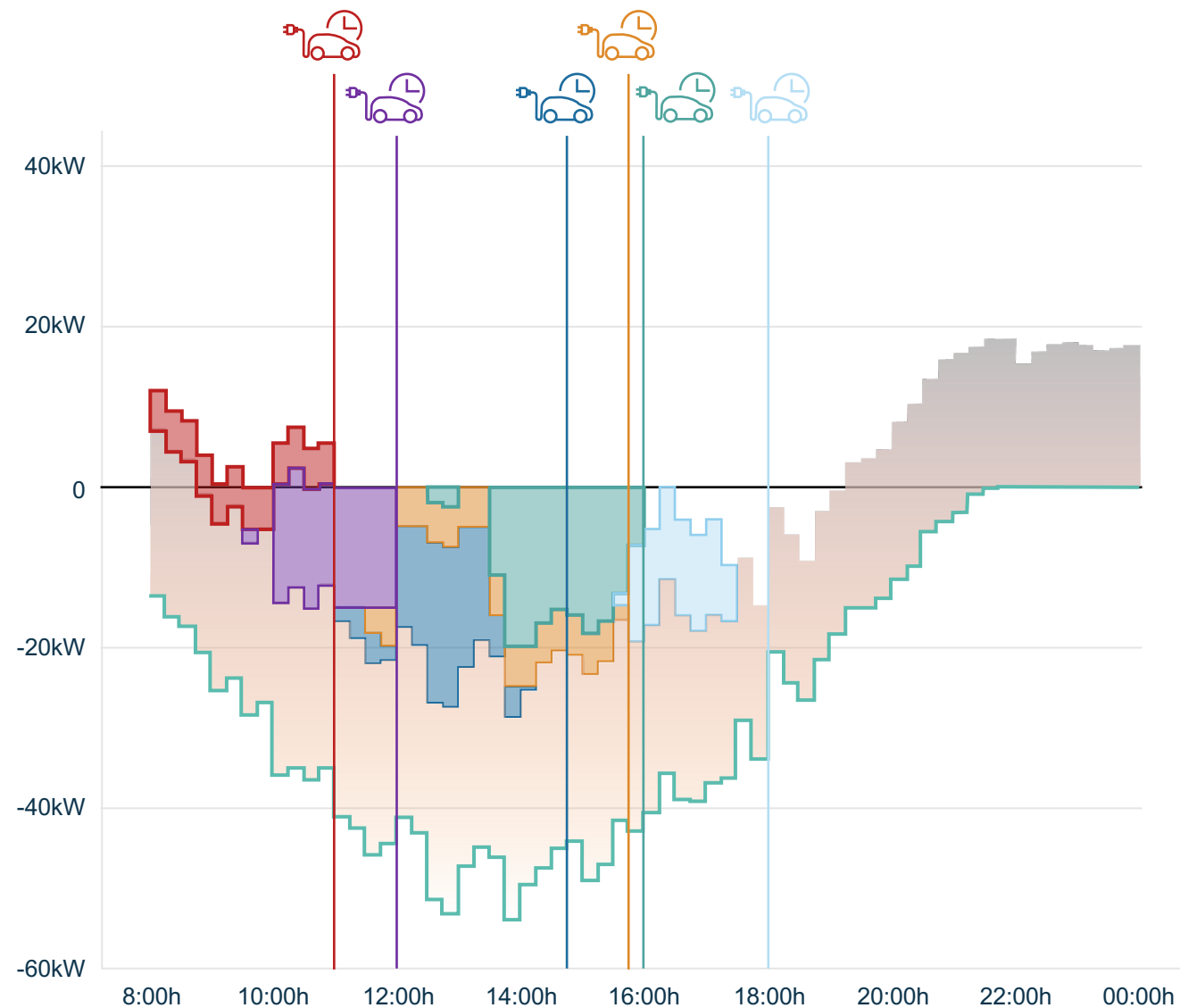
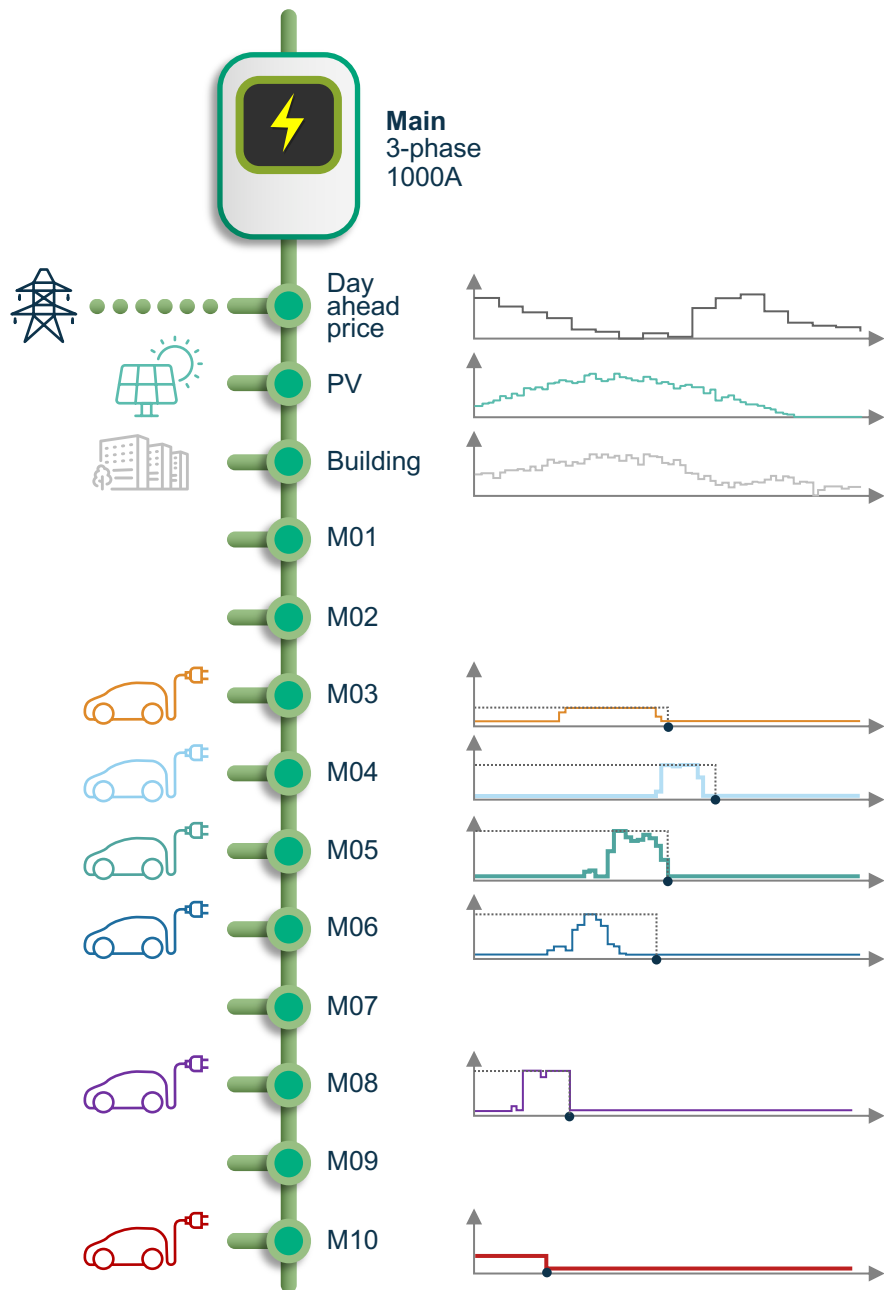


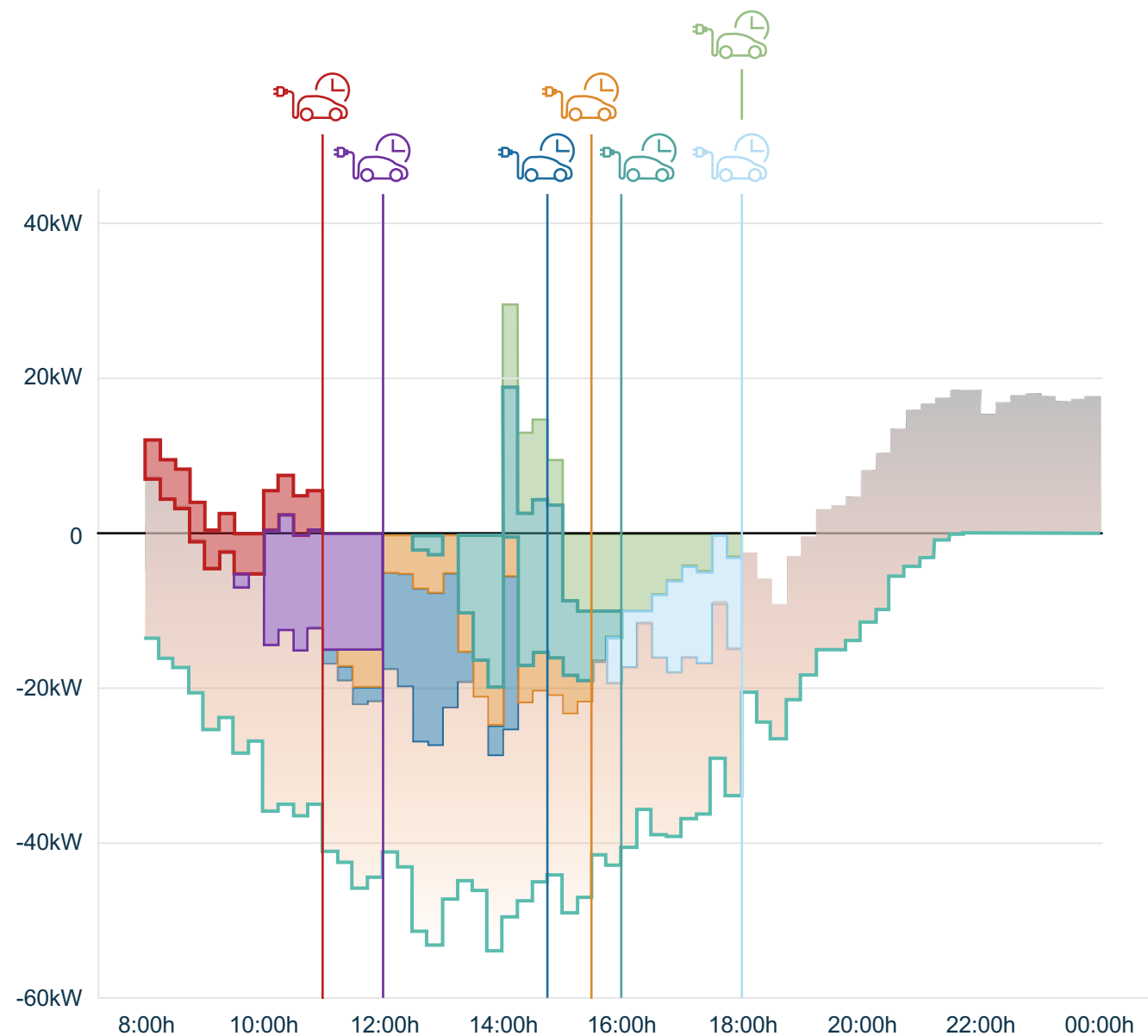
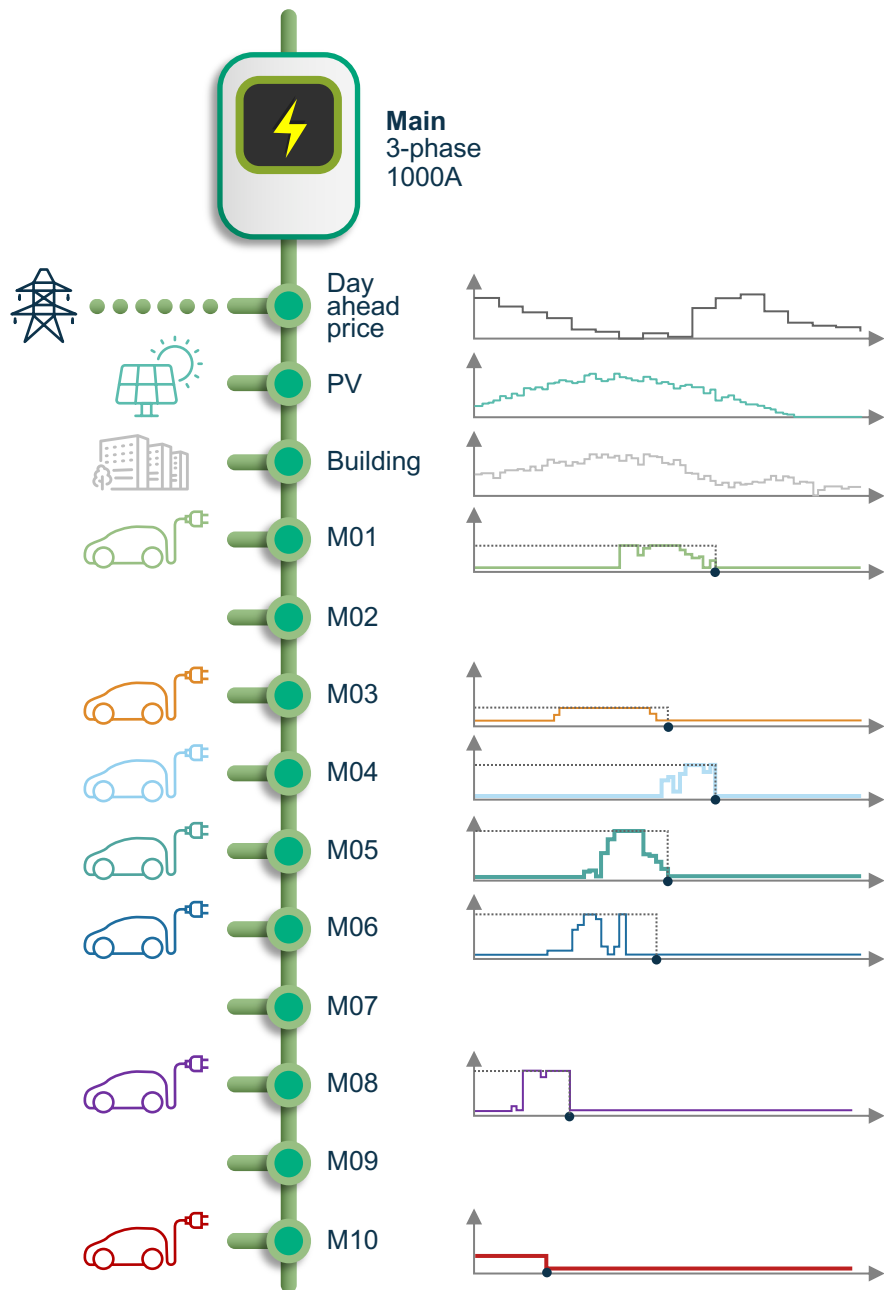




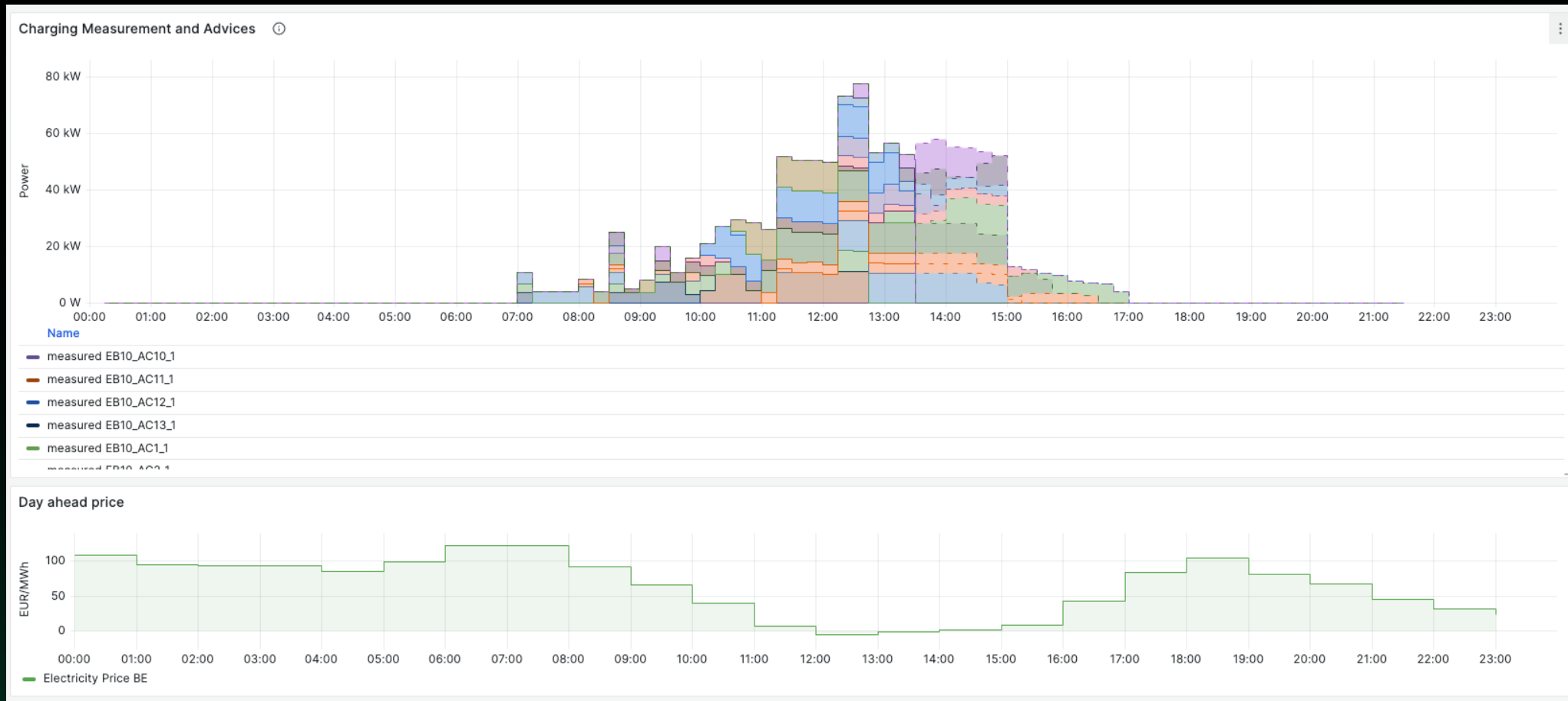








Example dashboard



Benefit simulation example

Site configuration used

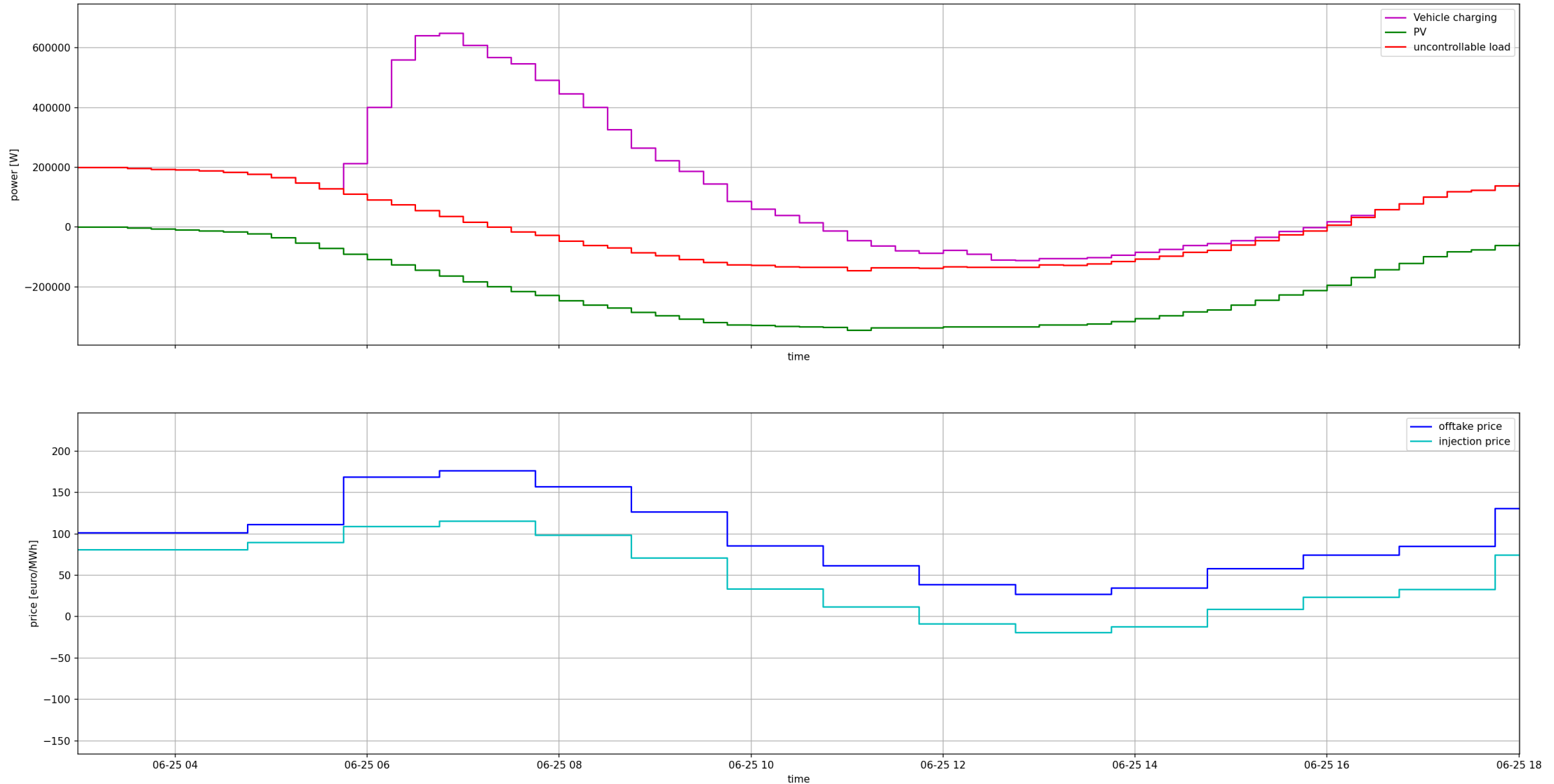
- 58 AC charging points
- Used a measured PV profile of June 2024 of a real site
- PV + 200kW uncontrollable background consumption
- Day Ahead market price of June 2024 (Belpex)
 - Offtake: Belpex price + 5% markup + grid costs (estimated)
 - Injection: Belpex price – 5% markup
- Capacity price:
 - Nomination: 1.84 euro/kW (toegangsvermogen)
 - Real peak price: 2.23 euro/kW (maandpiek)

Charging behaviour used

- **Tuesday & Thursday:**
 - All stations occupied by 8:00 AM.
 - Midday: 10–15% of cars leave, replaced by new arrivals.
 - All users leave between 3:00 PM and 5:00 PM.
- **Monday & Wednesday:**
 - All stations occupied between 8:30 AM and 9:00 AM.
 - Midday: 10–15% of cars leave, replaced by new arrivals.
 - All users leave between 3:00 PM and 5:00 PM.
- **Friday:**
 - Stations are never fully occupied, sometimes by 12:00 PM.
- **General Insight:**
 - Most users need a maximum of 4 hours to fully charge their car.

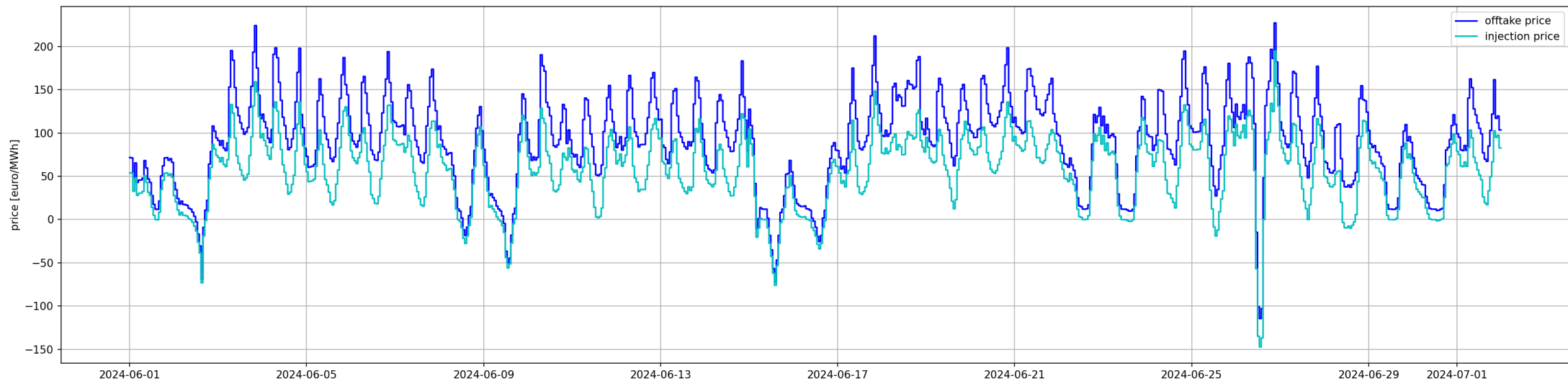
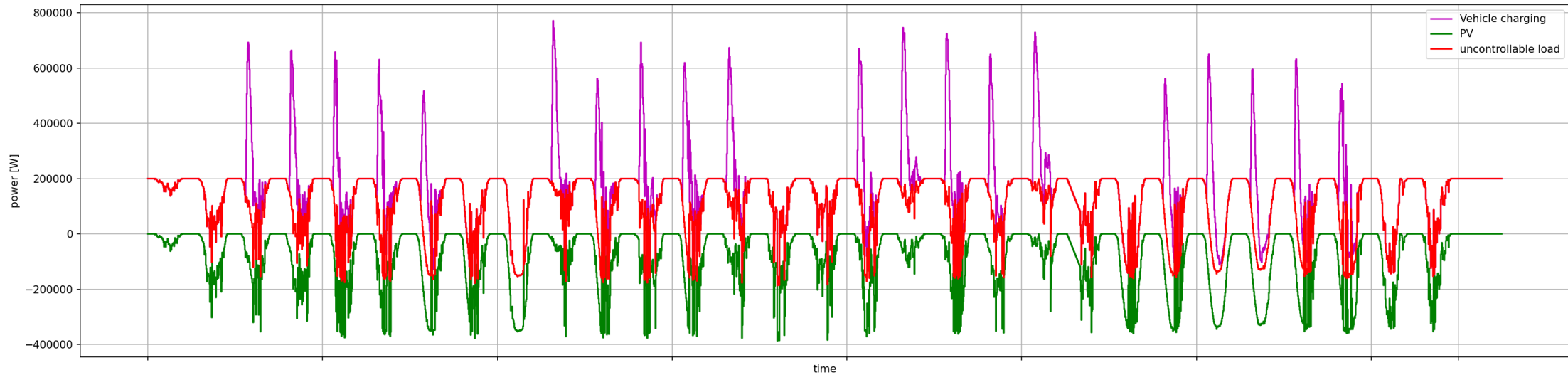
Reference simulation: charging cars as fast as possible

1 day charging simulation without Pleevi



Reference simulation: charging cars as fast as possible

Full month charging simulation without Pleevi



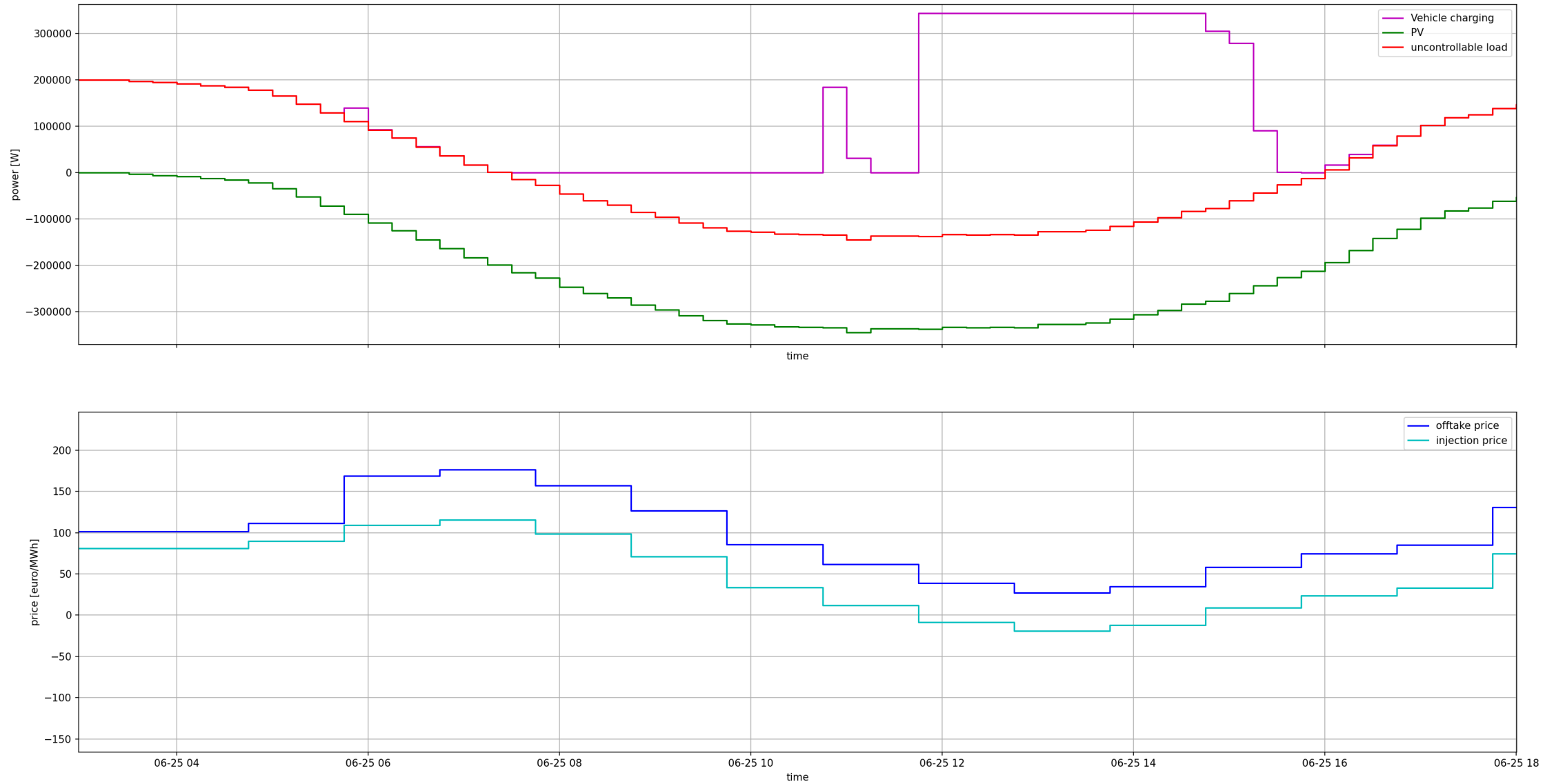
Reference simulation: charging cars as fast as possible

Total cost for a full month charging without Pleeви

- Volume cost:
 - Offtake from the grid: 14.706 euro
 - Injection **cost**: 11 euro
- Peak cost: 3.139 euro
- Total cost: 17.856 euro

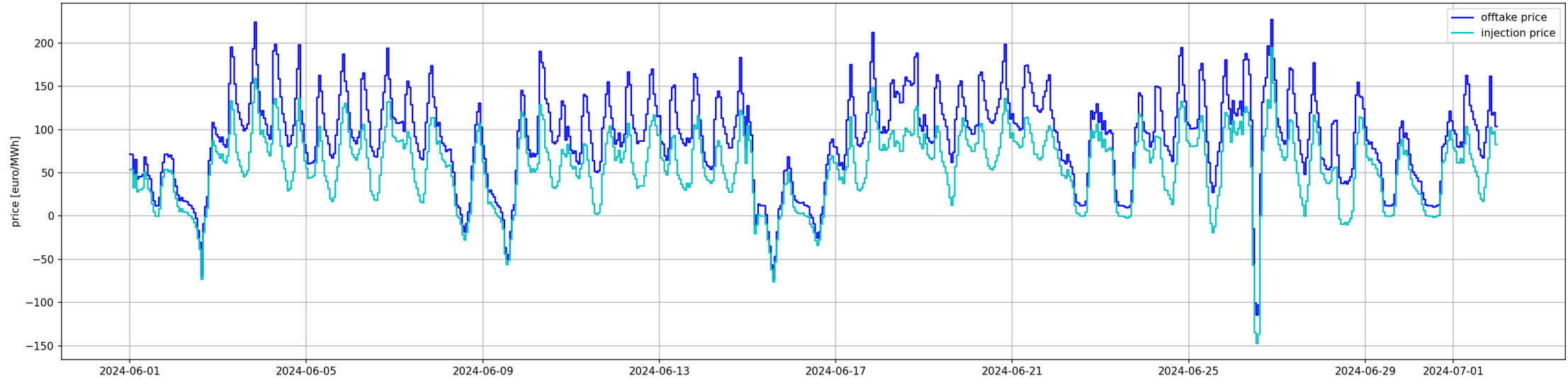
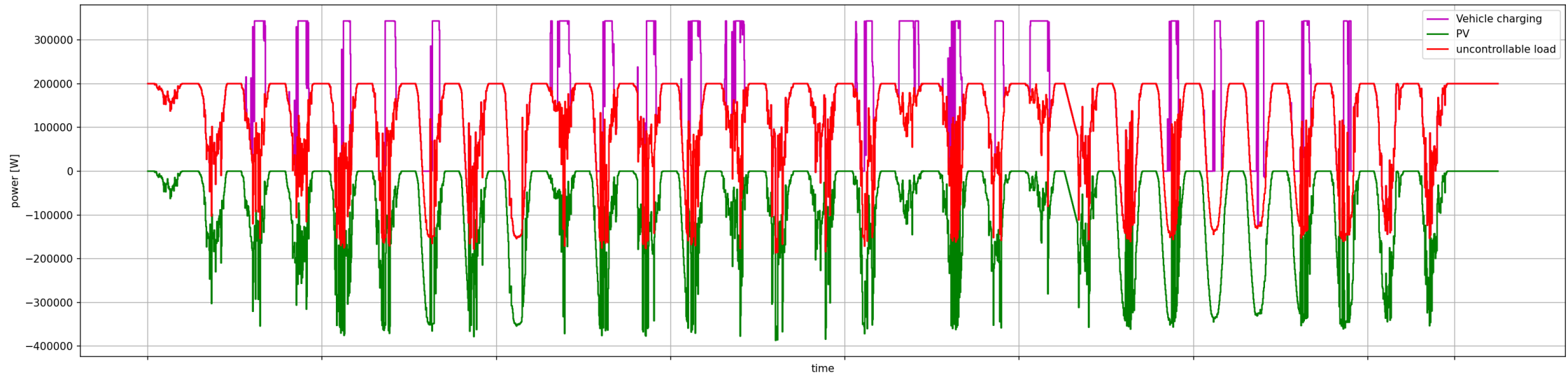
Optimized simulation: volume price + peak price optimization + PV + UCL + Day Ahead

1 day charging simulation with Pleevi



Optimized simulation: volume price + peak price optimization + PV + UCL + Day Ahead

Full month charging simulation with Pleevi



Total cost for a full month charging with Pleevi

- Volume cost:
 - Offtake from the grid: 12.380 euro (benefit = 2.326 euro)
 - Injection income: 28 euro (benefit = 39 euro)
- Peak cost: 1.397 euro (benefit = 1.742 euro)
- Total cost: 13.749 euro
 - Benefit /site = € 4107
 - Benefit / charging point: € 70,81

What's next

We are looking for e-bus and e-truck companies to test our smart scheduling engine on one of their depots

We are looking for partners to integrate our APIs

Get in contact via hi@pleevi.ai

