THE MOBILITY HOUSE

ChargePilot

Charging and Energy Management
for electric vehicles

THE MOBILITY HOUSE

Dashboard

The Mobility House Munich

Total Load
48.2 kW
↓ below grid limit
Grid Limit: 69.0 kW

Controller Status
Online

Charge Point Overview

6x

- Charging 4
- Wait. for LM 0
- Unknown 0
- Preparing 0
- Available 1
- Wait. for EV 1
- Error 0

Error Notifications

No errors.

Charge Power   kW

100
75
50
25
0

Charge Occupancy

24:00
20:00
16:00
12:00
08:00

Thursday, 9.0
Total Occupan

KUNBUS
REVOLUTION PI
RevPi CONNECT

REVOLUTION PI
RevPi CONNECT

THE MOBILITY HOUSE

Ready for the electric future

The Mobility House's ChargePilot ensures your fleet electrification success. The system is designed to optimize charging operations wherever multiple electric vehicles charge at the same time. Since the technology scales with your needs, you remain flexible for whatever the future holds.

Charge your electric vehicles **intelligently, reliably, and cost-effectively.** Today and into the future.

Our services

Turnkey Solutions

Comprehensive fleet charging solutions, with no upfront costs

Financed charging depots with guaranteed uptime, at a simple price per mile

Load Management

Reliable and efficient charging

Cost reduction through avoidance of peak loads

Optimal use of your grid connection

Service and Support

10/5 or 24/7 monitoring and error management

Continuous system extensions and software updates

Consulting

Charging planning & analysis

Fleet electrification feasibility studies and savings models

Example: Smart charging saves costs

A transit authority needed to electrify 97 buses in their fleet. The Mobility House helped create a robust charging strategy that allowed them to charge during off-peak hours during the day and overnight. ChargePilot distributed the load over time – saving the transit from grid upgrades and demand charges of more than $650,000 per year.
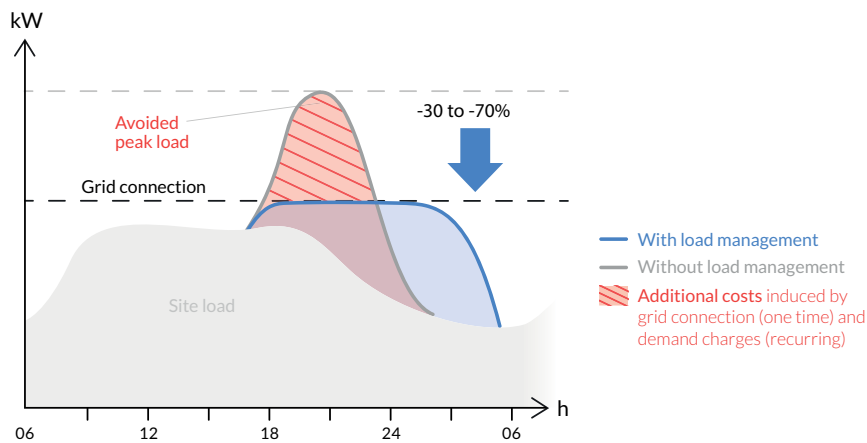
Without load management

The vehicles are charged with uncontrolled power consumption, leading to expensive peak loads.

- Grid upgrade of 3 MW required
- Monthly charging costs of >$100,000
- Peak load of >4.7 MW

With ChargePilot

Load management intelligently distributes the charging processes, keeping peak loads and expenses low.

- No grid upgrade required, saving ~$1M and 2 year project delay
- Monthly charging costs reduced to $54,000
- Total savings of $3.25M over 5 years

One system - as flexible as your mobility needs
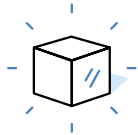
Independent & compatible
Don't get locked in with a single charging station manufacturer or software. Combine ChargePilot with other systems using standardized and open interfaces.

Future ready
Add more charge points or software modules when you need them. Benefit from automatic updates and be prepared for tomorrow's technologies.

Smart Charging
Get the most out of your grid connection with the most advanced power distribution algorithm on the market.
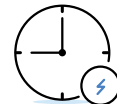
Reduce costs
By preventing high peak loads, ChargePilot will significantly reduce your installation and energy costs.
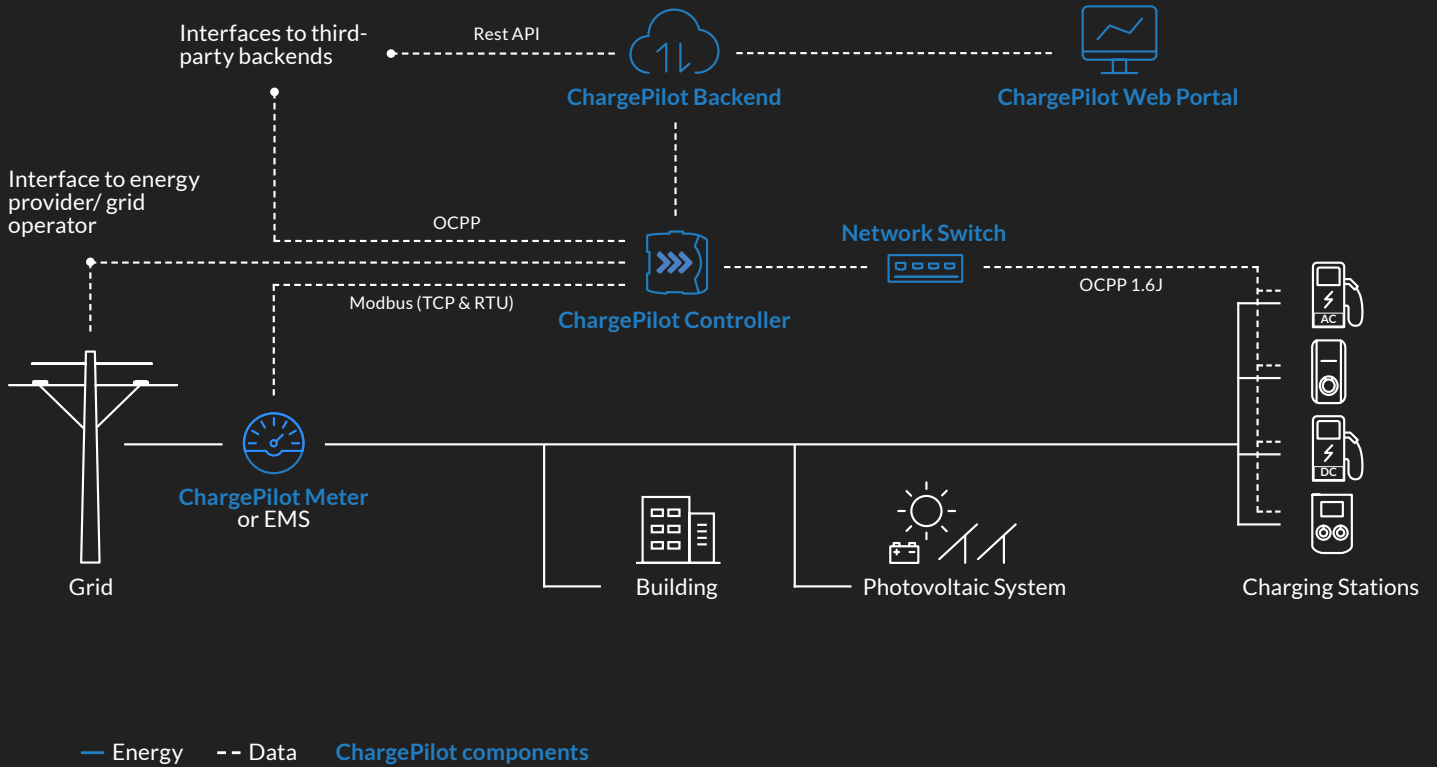
Secure & local
The local controller installed on site ensures fast reaction times, maximum data security, and full functionality even in case of internet connectivity interruption.

Reliable operations
Control charging across multiple sites from the web portal, and maximize uptime with 24/7 error management servicing.

Local intelligence universally connected

Interfaces to third-party backends

Rest API

ChargePilot Backend

ChargePilot Web Portal

Interface to energy provider/ grid operator

OCPP

Network Switch

Modbus (TCP & RTU)

ChargePilot Controller

OCPP 1.6J

ChargePilot Meter or EMS

AC

DC

Grid

Building

Photovoltaic System

Charging Stations

— Energy   -- Data   **ChargePilot components**

Open hardware and backend interfaces:

ABB   AlphaStruxure   BURNS McDONNELL   CIM   CTE   DAIMLER   ENDERA   heliox

Mortenson   NEW FLYER   Itron   NISSAN   RMI   SIEMENS   Toyota   Winn-Marion Companies   VW

Ask us about ChargePilot if ...

... you need to charge 5, 50, 100 or more electric vehicles.

... you want to future-proof your electric mobility.

... you are looking for a scalable and modular solution.

... you want to intelligently integrate different charging stations.

... you need full transparency for all charging processes.

... you want to make the most of your existing grid connection.

... over 12 years of experience in e-mobility are important to you.

THE MOBILITY HOUSE

The Mobility House LLC
545 Harbor Blvd.
Belmont, CA 94002
US-sales@mobilityhouse.com
+1 (650) 232-4200

www.mobilityhouse.com

ChargePilot® Software Packages

| Charge Management & Ecosystem	Primary	Plus	Pro
Load Management (Chargers Only, Site Integrated)	☑	☑	☑
Access Control	☑	☑	☑
Ecosystem Integration (OCPP Proxy, Rest API)	☑	☑	☑
Time-of-use Optimization (TOU)	☐	☑	☑
Advanced Optimization (Prioritization, Multi Fuse)	☐	☑	☑
Schedule Based Optimization	☐	☐	☑
Distribute Energy Resources Co-Optimization (PV, Microgrid, Backup Generator)	☐	☐	☑

Dashboard

	Primary	Plus	Pro
Dashboard (Activities, Statistics, Global View of Sites, CSV Download)	☑	☑	☑
System Management	☑	☑	☑
User Roles (Viewer, User, Admin)	User only	All	All
Users (Roles and # of User)	1 per Site	Unlimited Users & Roles	Unlimited Users & Roles

Service

	Primary	Plus	Pro
Support Service (Email & Phone)	☑	☑	☑
Error Management (24/7 Pro-active Monitoring and Notifications)	☑	☑	☑
Service Pro (Firmware Management by TMH)	☐	☑	☑
Monthly Error Reports	☐	☐	☑
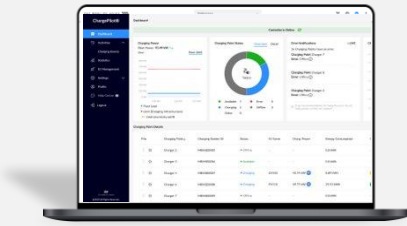
ChargePilot Web Portal – Roles & Permissions

Your decision in the Dashboard category determines to what extent you can use the ChargePilot Web Portal.

Depending on the package selected, each user of the Web Portal could be assigned one of two possible roles: **Viewer** or **User**. These roles each have a set of certain permissions that define a user's ability to carry out specific actions.

	Permissions	
	Viewer	**User**[1]
Dashboard		
View charging point status & error notifications	✓	✓
Prioritize charging points[2]		✓
(Re-) Start and stop charging sessions		✓
Restart chargers		✓
Aggregated view of multiple sites	✓	✓
Activities		
View charging sessions per charging point incl. load profile	✓	✓
Download charging session summary	✓	✓
Statistics		
View energy consumption & load profile of the fleet	✓	✓
Authentication Management		
View all RFIDs	✓	✓
Add, edit and delete RFIDs		✓
Prioritize RFIDs[2]		✓
Settings		
View *Accounts*	✓	✓
View *Sites*	✓	✓
Edit time zone per site		
(De-) Activate electricity tariffs for TOU Management[2]		✓
View *Charging Stations*	✓	✓
Rename charging stations & charging points		✓

[1] Primary Package is *User* only
[2] Plus or Pro package required