



# LED TRAIL

Save Energy | Save Money™

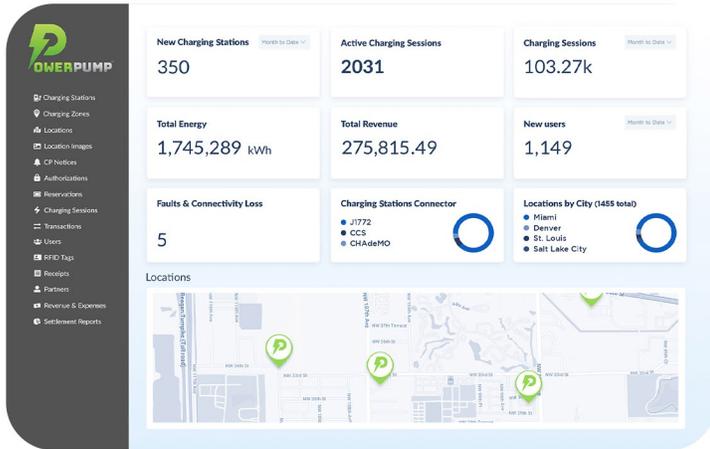


# Smart Charging Station Management System

- ✔ Monitors, configures and maintains your charging infrastructure.
- ✔ Real-time analytics & monthly reporting.
- ✔ Manage multiple charging sites and locations.
- ✔ Set pricing per kilowatt hours or by time.
- ✔ Detailed reports on station usage and energy consumption by location.
- ✔ Dynamic load management and smart charging.
- ✔ Works with all charging stations by using standardized communication protocols.
- ✔ Open API and integrations.
- ✔ EV Roaming and direct P2P integration through OCPI



# Charging Station Administration – Monitoring

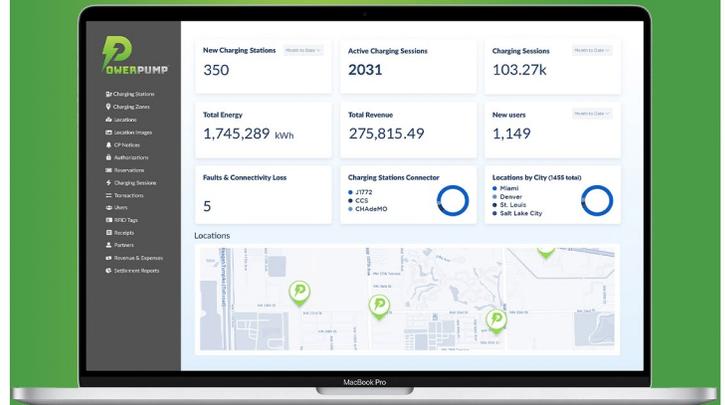


- ✓ General status of the charging infrastructure at a glance.
- ✓ Ensures high availability of your charging infrastructure.
- ✓ Dashboard with status and current consumption values per location/group
  - Operation status (in use / available / inoperative)
  - Actual power consumption
  - Active and planned charging sessions
- ✓ Detailed view on vehicles
  - Assignment of vehicle to charging station and location
  - State of the charging process
- ✓ Overview for completed ongoing and upcoming charging sessions.
- ✓ Detailed status of charging process and vehicle can be displayed.
- ✓ Set pricing by time or per kilowatt hours.
- ✓ Partner management
  - Give access control to your clients to view chargers, reports, and more.
  - Manage users and settlements reports.



# Configuration

- ✓ Add charging stations and configure their basic parameters.
- ✓ Define the charging infrastructure topology and create different locations and groups of charging stations.
- ✓ Compliant with all charging stations that communicate via OCPP.



# Charging Station Control

- Change the availability, restart the charging stations, and update their firmware.
- ✓ In the event of a fault or maintenance work, charging stations can be taken out of operation or restarted remotely.
  - ✓ New firmware versions can be managed centrally and distributed to charging stations on a time-controlled basis.



## Reporting

Evaluate the usage of your charging infrastructure with comprehensive reports.

### Predefined reports for selection

- ✔ Charging Sessions
  - Charged Energy
  - Charging Sessions statistical summary and detailed report
- ✔ Charging Stations
  - Availability

### Evaluation based on multiple filter criteria

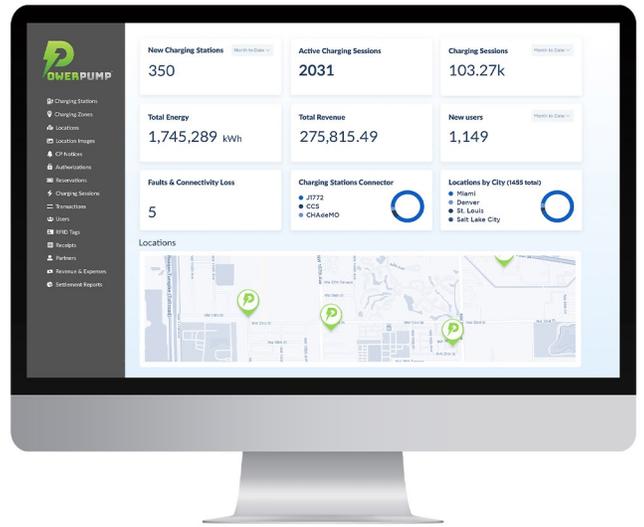
- ✔ Date range
- ✔ Charging station / location selection
- ✔ Vehicle

### Reports and analytics

- ✔ Rich-feature analytics and dashboards
- ✔ Built in tools for billing, CRM and operational issues.

### Export function

- ✔ CSV format or via API

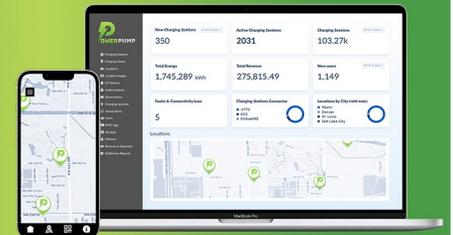


## Notifications

Notifications about events occurring in charging infrastructure.

### Alert options:

- ✔ Browser
- ✔ Multiple E-Mail recipients can be defined



### Details can be displayed in Event History

- ✔ Filtering and sorting by date
- ✔ Error Codes as defined by charging stations manufacturer



## Role management

- ✔ Grant different rights to specific user groups.
- ✔ Access restriction via user accounts and role permissions.
- ✔ Customized views depending on user role.



## Browser User Interface

- ✔ No software installation necessary.
- ✔ Protected via HTTPS connection.
- ✔ Support several languages.



## Load Management

Manage the maximum load statically or dynamically and benefit from a variety of charging strategies.

### Static load management

- ✓ Defined total power for all charging stations
- ✓ Every EV gets the same charging power
- ✓ If more EV's are added, less power is available for each EV

### Dynamic load management

- ✓ Charging capacity is adapted to the building consumption
- ✓ If less electricity is consumed there, more is available for charging and vice versa
- ✓ Optimal distribution of electricity to all chargers



## Billing

Log billing-relevant data from charging sessions and exchange it with payment systems via OCPI.



### Versions & Credentials

Exchange information about implemented modules, protocol version and authorization.



### Pricing

Price information with flexible models



### Locations

Displays topology of charging infrastructure



### Commands

Start new Charging Session via external authentication, e.g., App



### Tokens

Exchange of (RFID) token information  
Real time authorization of used token



### Sessions

Real time information of charging session