

# Two options for a Load Profile Analysis to determine the power potential of your charging solution: Light & Pro

## Specification of services

### Load Profile Analysis Light

**Goal:** Determination of the charging potential of your planned E-Mobility solution

- Measurement of site load over a period of 14 days; data collection using ChargePilot (additional purchase of ChargePilot components required: controller-set, ChargePilot Box and hardware for dynamic load management)
- Graphical display of the most important measurement data
- Specification of the measured peak power and average power
- Derivation of a technically reasonable, free power capacity for charging stations
- Specification of a possible maximum number of 11 kW charging stations that can be installed

### Load Profile Analysis Professional

**Goal:** Analysis of the effects of your planned e-mobility solution on the energy profile of your site with recommendations for action

#### Pos 1: Acquisition of the site load profile and high-level evaluation

- Data collection via:
  - Measurement of site load over a period of 14 days; data collection using ChargePilot (additional purchase of ChargePilot components required: controller-set, ChargePilot Box and hardware for dynamic load management)
  - or Evaluation of an existing annual load profile (*suitable power meter required*)
- Graphical display of the most important measurement data
- Specification of the measured peak power and average power
- Derivation of a technically reasonable, free power capacity for charging stations
- Specification of a possible maximum number of 11 kW charging stations that can be installed

**Result:** Collection and provision of measured data

#### Pos 2: Evaluation of the load profile

- Determination of a day with critical site load
- Accumulation of average driving profiles supplied by the customer to an aggregated load profile of all electric vehicles
- Simulation of the effects of charging events on the site load
- Derivation of the necessary power demand
- Evaluation of possible cost savings through load management

**Result:** Specification of power demand and potential effects of a load management

#### Pos 3: Technical recommendations for using load management

- Specifying the concurrency factor of the charge points for the installation
- Recommendation for the required power at the e-mobility connection point (sub-distribution)

**Result:** Derivation of the energy- and cost-optimal parameters for the planned charging solution