Preserve your savings

PQ PLUS GmbH

Securing EE privileges

Secure EEG allocations or privileges

The German government is paving the way for a future with better climate protection with its 2021 amendment to the Renewable Energy Sources Act. This is the first time that targets are set in law, with the goal of achieving greenhouse gas neutrality in electricity generation before 2050. This means that companies must delimit any electricity they purchase but do not consume themselves from 01 January 2022 (originally 01 January 2021) (third-party delimitation). It is necessary to create a measurement concept and install calibrated energy measurement devices in order to implement the government's requirements. Companies that fail to meet this obligation cannot claim any privileges, such as a reduced EEG surcharge. This may bring about existential challenges for electricity-intensive companies.

Legal requirements

It must be permanently ensured that only the kilowatt hours actually eligible will be granted privileges. Internal consumption must be distinguished from external consumption. The observation interval must be set to the nearest quarter of an hour.

This affects, amongst other things, the electricity consumed by

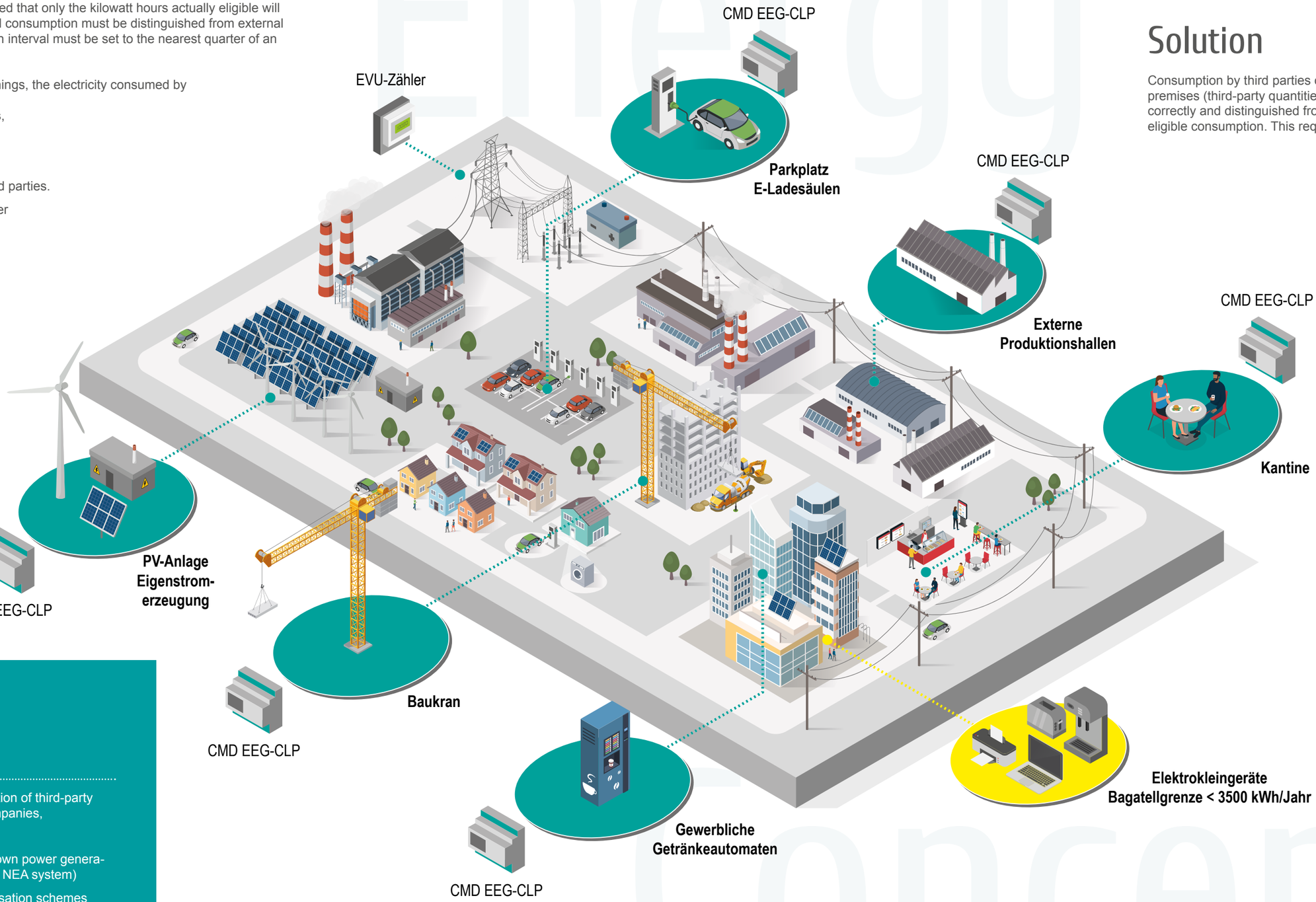
- beverage vending machines,
- leased machines,
- craftspeople, or
- office space provided to third parties.

Third parties also include other group companies.

Who is affected?

The new provisions on delimitation of third-party quantities affect virtually all companies, in particular:

- companies that operate their own power generation system (CHP, PV system, NEA system)
- companies with special equalisation schemes
- companies with further levy privileges due to CHP levy or StromNEV levy



Solution

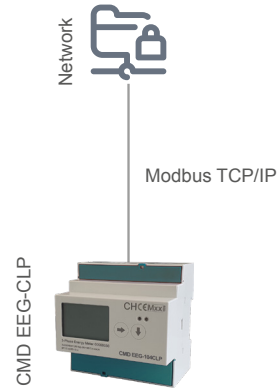
Consumption by third parties on your company premises (third-party quantities) must be recorded correctly and distinguished from your own or your eligible consumption. This requires a concept.

PQ Plus offers the right solutions

With own generation system

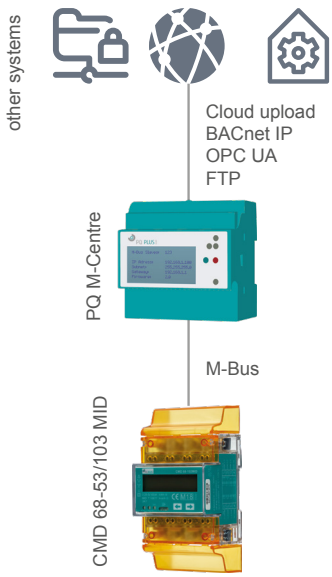
- Loading profile storage in accordance with PTB-A 50.7
- MID conformity - calibration validity period: 8 years
- TCP/IP interface
- 100 A direct measuring
- x/1 / x/5 A transformer-measuring
- Storage depth of 3 years
- Logbook for configuration changes relevant to calibration law
- Time synchronisation via NTP server
- Data export directly via web server in csv files

Modbus TCP/IP solution

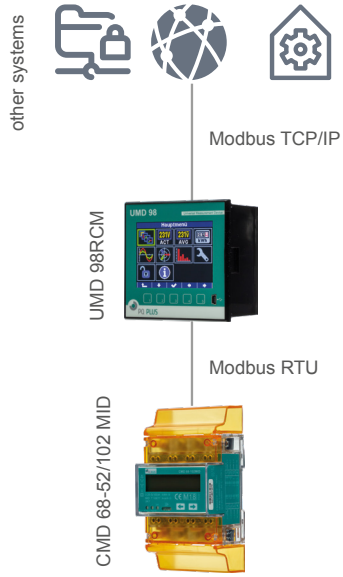


Without own generation system

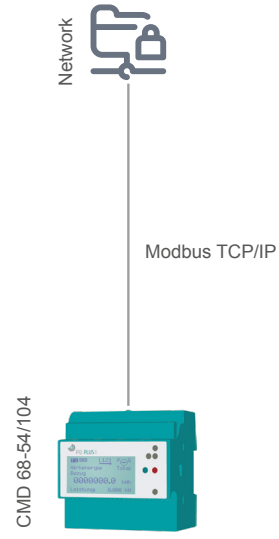
M-Bus solution



Modbus RTU solution



Modbus TCP/IP solution

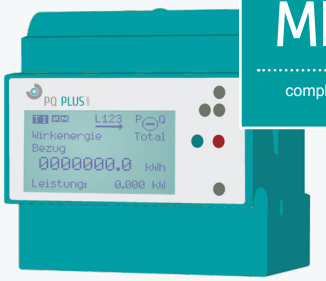


2 in 1
+ Gateway
+ Data logger

PQ M-Centre

- Web server for graphical analysis and professional data preparation
- CSV, JSON, FTP upload, OPC UA
- IoT & Industry 4.0 ready
- M-Bus to BACnet IP gateway
- Firmware update & backup

MID
compliant



CMD 68-54/-104MID

- Options with direct measurement [75A] or primary-side connection with N / 1 A and 5 A
- MID conformity - Verification validity period: 8 years
- Ethernet interface
- Communication: 4 S0, Modbus TCP
- Measures 3-phase current and voltage in 4-quadrant operation and thus the work in class B
- Web server

MID
compliant

CMD 68 series

- Options with direct measurement [100 A] or primary-side connection with N / 1 A and 5 A
- MID conformity - calibration validity period: 8 years
- Communication: S0, M-Bus, or Modbus
- Illuminated, large, and easy-to-read digital display
- Measures 3-phase current and voltage in 4-quadrant operation and thus the work in class B
- Sturdy plastic housing, only 4 TE wide

MID
compliant

CMD 68M - Intermediate plug meter

- MID conformity - calibration validity period: 8 years
- Three-phase current 16 / 32 / 63 A
- Alternating current 45 A
- Optional with communication

5 in 1
+ Gateway
+ Data logger
+ Power quality analyser
+ Differential current measurement
+ Operating current measurement

UMD 98RCM

- For control panel mounting 96 x 96 mm
- 4-channel current measurement
- Sampling rate 57.6 kHz
- 2 differential current inputs
- Large 512 MB data memory
- Measurement in accordance with EN 50160, EN 61000-2-2, EN 61000-2-4, EN 61000-2-12
- LCD graphic display (72 mm x 52 mm) with simultaneous display of 3 measured values with configurable display and backlighting
- Graphic display of harmonics, phase angle, oscilloscope function
- Integrated web server for your measured values acquired live
- Ethernet with 6-port Multiconnect (Modbus TCP/IP)
- USB-C interface on the front
- Harmonics up to the 128th harmonic

Request our new catalogue or browse its online version on our website.

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Your plus for greater performance.

Are estimations permitted?

From 01 January 2022 onwards, they are no longer permitted! The Energy Collection Act amended the EEG from 2019 onwards to the effect that electricity quantities from third parties must generally be determined by measurement in order to levy the EEG surcharge. This means that a concept must be drawn up to ensure that all third-party quantities are recorded, allocated, reported, and billed in accordance with calibration law.

Transitional regulation

A transitional provision still permits estimations of third-party electricity quantities for the calendar years of 2018 to 2021. From 01 January 2022 onwards, however, a measurement concept must be in place and applied.

Measurement concept

In qualitative terms, the metering concept must consider the fact that the burden of proof for the internally consumed quantities is with the applicant. Failure to provide evidence may lead to cancellation of the benefits when purchasing electricity in extreme cases.

§§ Legislation

The underlying legal regulations are the MessEG (Measurement and Calibration Act) and the MessEV (Measurement and Calibration Ordinance)

Analysing energy measured data:

PQ Plus offers a wide range of options for analysing your measured data. The special advantage here is that you will not need any additional expensive software to prepare your data.
Operators of an energy management system in accordance with ISO 50001 can use our ENVIS Web service subject to a fee.

ENVIS Software Suite

- Data acquisition and storage in binary files (.xls / .csv) or SQL databases
- Visualisation of live values, trends, input states, transients, consumption, ...
- Analysis of measured values, statistics, exports (PDF, XML, ...)
- Evaluation of the power quality in accordance with DIN EN 50160
- Analysing consumption data
- Simple manual or automatic reporting of recorded data
- Support for many different measurement and control devices

ENVIS Web ISO 50001

- Alarm management
- Reporting
- Sankey diagram
- Load profile analysis
- Email dispatch
- Consumption and cost overview
- Manual data acquisition