

Delimitation of third party quantities acc. to the renewable energy act (EEG)

with standards-compliant PAC2200 MID and PAC2200 CLP measuring devices

Starting in 2022, third-party electricity consumption must be separately recorded and reported in order to qualify for levy privileges under the German Renewable Energy Act (EEG) and those relating to combined heat and power generation (CHP) systems, offshore systems, and s. 19 of the Electricity Network Charges Ordinance (StromNEV).

Protect levy privileges

If your business benefits from levy privileges when procuring or generating its own electricity, any third-party electricity volumes must be separately recorded in compliance with calibration legislation with effect from January 1, 2022. This places special demands on measuring systems.

Separate recording of third-party volumes

Third-party supply is when your company makes electricity available to another natural or juridical person as the end consumer. This includes electricity consumption in leased premises, power for construction sites, and managed canteens. Leased devices like drink vending machines, printers/copiers, and leased IT infrastructure also count as third-party consumers.

No self-generated power – PAC2200 MID

If you don't generate your own electricity, a MID-certified PAC2200 MID measuring device will be enough to measure and separately record your active electrical energy (kWh). Cumulative own volumes and third-party volumes can be balanced and reported on an annual basis.

Including self-generated power – PAC2200 CLP

If you also use electricity generated in-house for which you pay a reduced EEG levy, you need to measure the synchronicity between self-generated and consumed power by recording active electrical energy (kWh), coordinated with standard time, using precise quarter-hour measurements. The PAC2200 CLP (Certified Load Profile) helps ensure the active energy intervals are generated in conformance with calibration legislation and that the records are stored for two years.



PAC2200 MID measuring device



PAC2200 CLP measuring device

Power monitoring made simple

Record power volumes covered by the EEG levy in conformance with calibration legislation – with and without self-generated power

Why do we need to act now?

Currently, many businesses don't separately record third-party volumes correctly.

- To ensure preferential terms apply only to the electricity volumes they were intended for, such volumes must be correctly and separately recorded and reported in good time using correctly calibrated meters by the end of 2021.
- Putting these requirements into practice will require calibrated meters with a communication interface and data summaries using appropriate software (SENTRON powermanager and SIMATIC Energy Manager), including a display function and digital readout.

What are the potential consequences?

If your business does not meet its documentation requirement, or if its separate records are inaccurate or late, you risk:

- Losing access to these beneficial conditions
- Liability for arrears for at least the 2019, 2020 and 2021 years
- Withdrawal of your approval notice for the special compensatory rules or incentives for using your own electricity

Ignorance, e.g. if not all auditors have been alerted to the need for entities generating their own electricity to balance generation and consumption at 15-minute intervals, will not protect you as the operator from sanctions.

7KM PAC2200 measuring devices – Device versions

Versions Article number (order code)

Transformer measurement*

1A/5A Modbus TCP + MID + CLP	7KM2200-2EA00-1JB1
1A/5A M-Bus + MID	7KM2200-2EA30-1GA1
1A/5A Modbus RTU + MID	7KM2200-2EA30-1HA1
1A/5A Modbus TCP + MID	7KM2200-2EA30-1JA1

Calibrated transformers

100A/1A KI0.5 calibrated 1.5VA	3NJ6920-3BD13
100A/5A KI0.5 calibrated 1.5VA	3NJ6920-3BD23
150A/1A KI0.5 calibrated 1.5VA	3NJ6920-3BE13
150A/5A KI0.5 calibrated 1.5VA	3NJ6920-3BE23
300A/1A KI0.5 calibrated 5VA	3NJ6940-3BH13
300A/5A KI0.5 calibrated 5VA	3NJ6940-3BH23
400A/1A KI0.5 calibrated 5VA	3NJ6940-3BJ13
400A/5A KI0.5 calibrated 5VA	3NJ6940-3BJ23
500A/1A KI0.5 calibrated 5VA	3NJ6940-3BK13
500A/5A KI0.5 calibrated 5VA	3NJ6940-3BK23
600A/1A KI0.5 calibrated 5VA	3NJ6940-3BL13
600A/5A KI0.5 calibrated 5VA	3NJ6940-3BL23

Direct measurement

65A Modbus TCP + MID + CLP	7KM2200-2EA40-1JB1
65A M-Bus + MID	7KM2200-2EA40-1GA1
65A Modbus RTU + MID	7KM2200-2EA40-1HA1
65A Modbus TCP + MID	7KM2200-2EA40-1JA1

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* Calibrated instrument transformers required to ensure conformance with measurement standards and calibration legislation