



## T3 FOSTERING THE CO-CREATION OF LOCAL ENERGY COOPERATIVES AND IMPLEMENTATION OF CITIZEN BASED PILOT ACTIONS

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**D.T3.12.3 - Definition of the pilot action,  
the CO2-Clima-Clock and the battery swarm  
storage in the Town of Pfaffenhofen**

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**Version 1  
10 2021**





## Relation to the project and the process of the definition of pilot actions in the Town of Pfaffenhofen (PP08 and PP09)

The definition of a CO<sub>2</sub>-Clima-Clock (Pilot project PP09) as a calculation/measurement instrument was carried out in June 2021, in the headquarters of the BEG.

The definition of the CO<sub>2</sub> climate clock is the prerequisite for producing and setting up the instrument/pilot action.

In order to make the process more transparent, we will use a mirror-like representation in the following section of this report.

- In our opinion the definition of pilot action is ready at the end of the planning phase.
- The first step was done at the end of the “Candidate Design”-Phase and with the qualification of public places for the installation of the CO<sub>2</sub>-Clima-Clock (Documentation, DT3.12.1, Workshop 2). The second step in our pilot action was the „Qualification of public places (Docu., DT.12.1, Workshop 2).
- During the planning phase (February - June 2021), planning documents, e.g. construction drawings, were prepared and the relevant offers for the hardware were obtained.
- By the end of the planning phase, the CO<sub>2</sub> climate clock was also clearly and unambiguously defined. This means that at the end of the planning phase, the definition of the pilot action was also available (June 2021).
- As described, the CO<sub>2</sub> Climate Clock is more of a demonstration/calculation/measurement instrument. The implementation of our CO<sub>2</sub>-climate-clock rather supports the visibility of our SEAP/SECAPs in the public. In the planned workshop 3 from work package DT.3.12.1 we support the SWP (PP09) in this way.

From experience, if appropriate in the general interest, we would like to add the following:

At the end of the planning phase, the pilot action was defined. The definition of the pilot action is a prerequisite for setting up the pilot project and is therefore part of the output OT3.1.

The suppliers and other service providers were commissioned immediately at the end of the definition phase, so that the CO<sub>2</sub> Climate Clock could be erected and officially presented to the public on the City of Pfaffenhofen Climate Protection

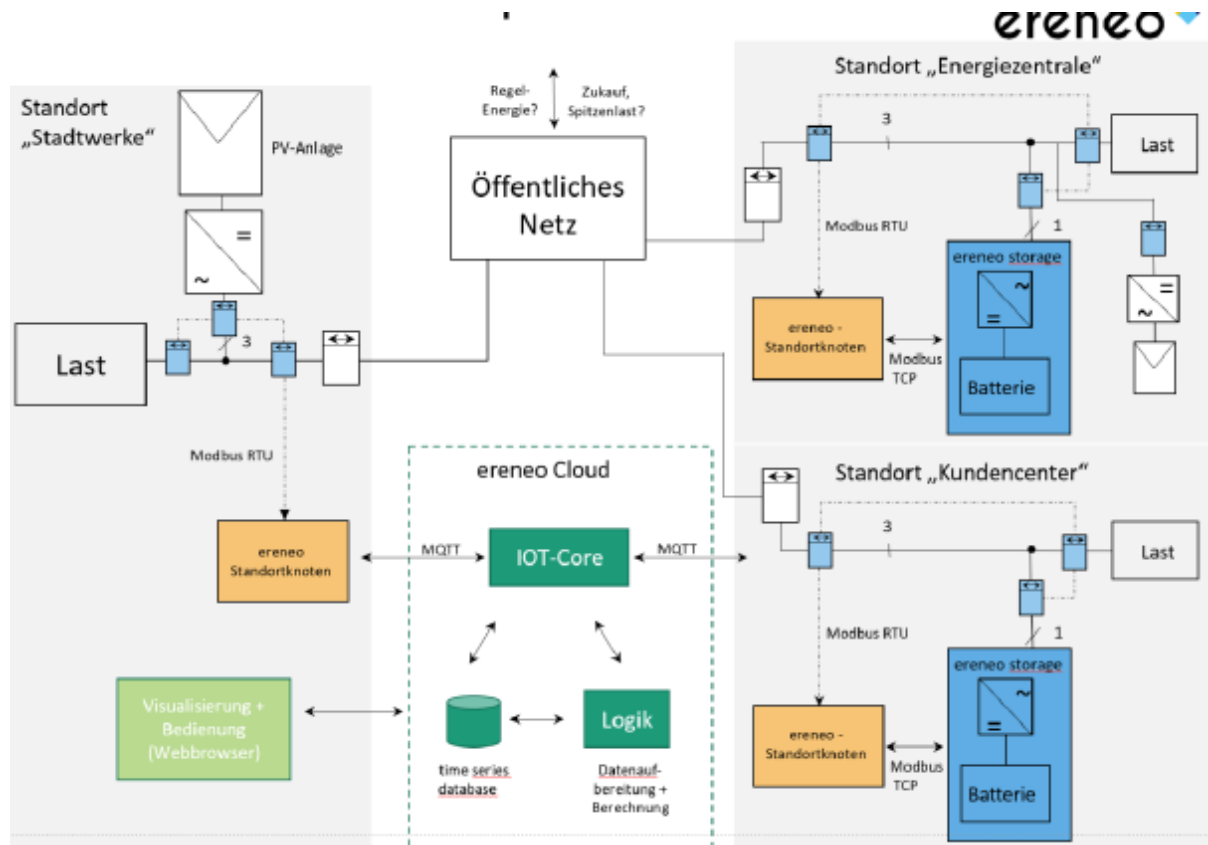


Day on 26 July 2021. There were only about 7 weeks between the end of the definition phase and the installation.

The battery swarm storage (pilot project PP08) had the same system as PP09.

The definition of the pilot project was completed with the completion of the selection of the service and the specifications there as well as the awarding of the services. The planning and tendering elements of this definition phase can be found below:

**Overview connection diagram of the three locations for the battery swarm storage system.**



**Translation, German <-> English**

Öffentliches Netz: Public network:

Standort „Stadtwerke“: Location „Municipal utilities“

Standort „Energiezentrale“: Location "Energy centre"

Standort „Kundencenter“: Location „Customer centre“

PV-Anlage: PV system

Last: Load



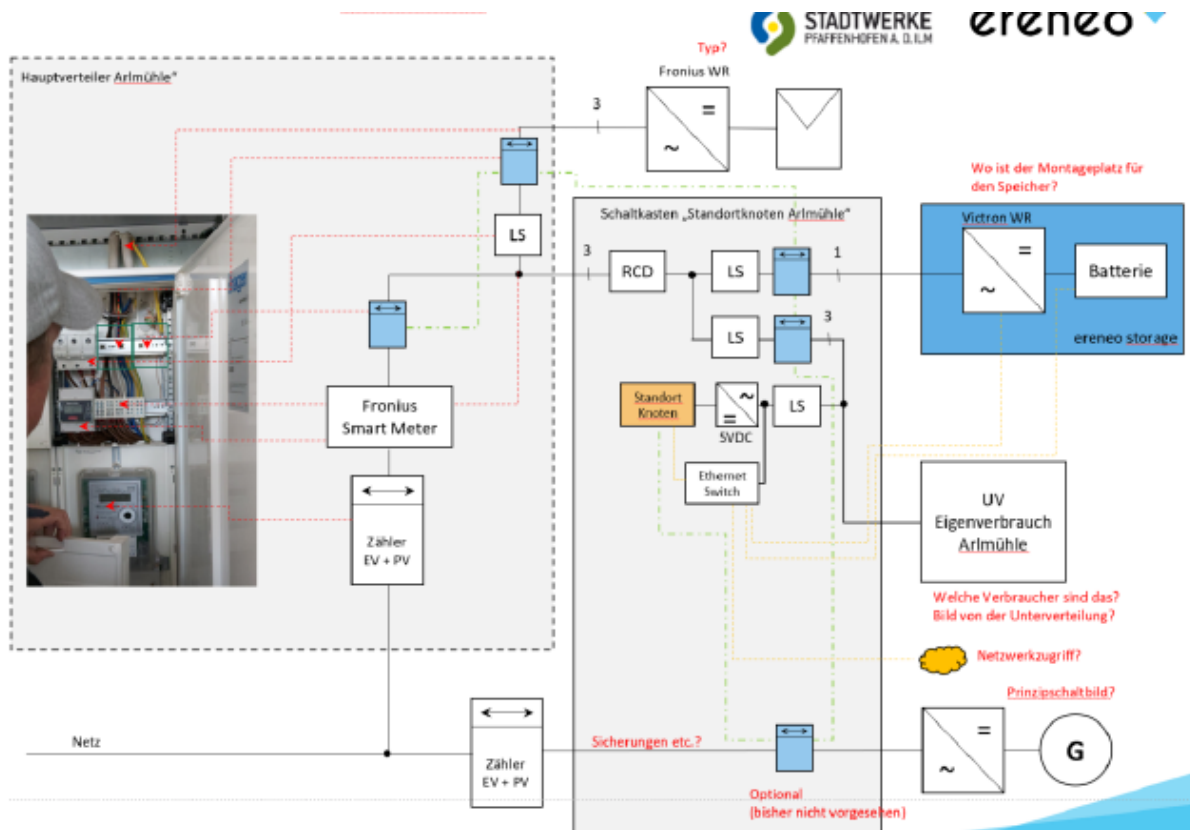
Standortknoten: Site node

Visualisierung + Bedienung: Visualisation + operation

Datenaufbereitung + Berechnung: Data preparation + calculation

Batterie: Battery

### Overview connection diagram of the location Arlmühle.



Translation, German <-> English

Zähler: Counter

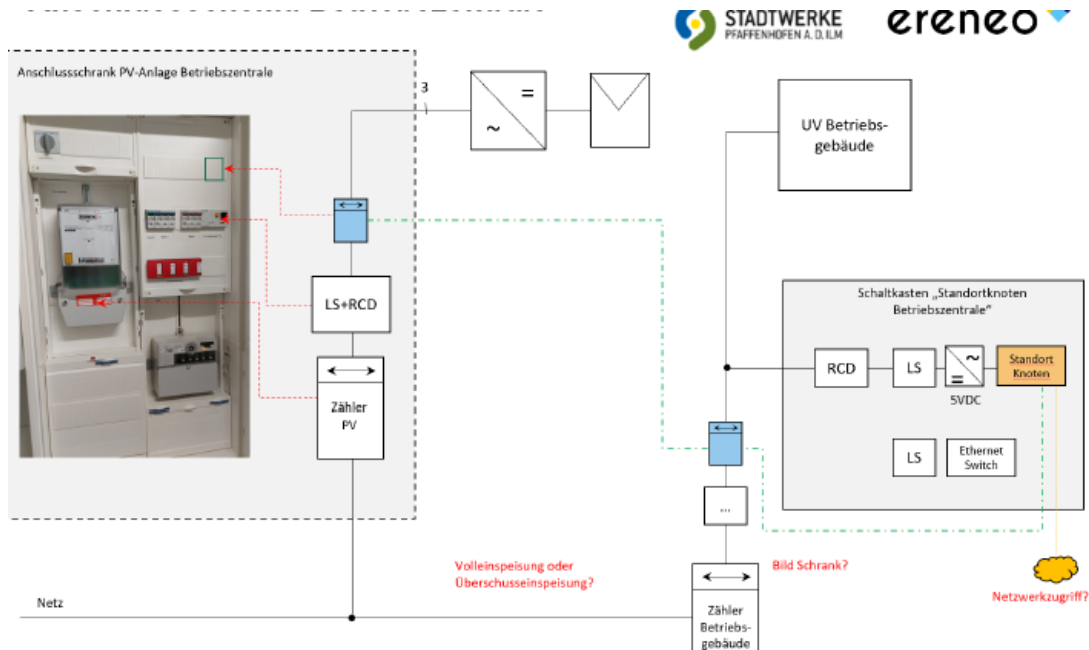
UV Eigenverbrauch: UV Self-consumption

Sicherungen: Fuses

Netzwerkzugriff: Network access



## Overview connection diagram of the location Operations Centre.



### Translation, German <-> English

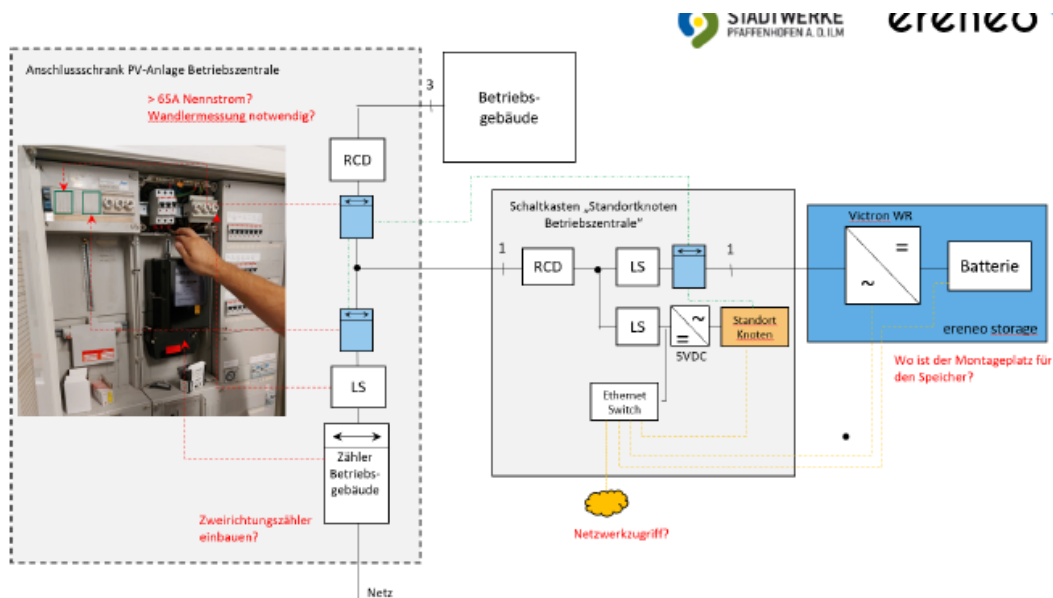
Anschlusschrank PV-Anlage Betriebszentrale: PV system connection cabinet, control centre

UV Betriebsgebäude: UV Operations building

Schaltkasten „Standortknoten Betriebszentrale“: Control box "Site node control centre

Volleinspeisung oder Überschusseinspeisung: Full feed-in or excess feed-in

## Overview connection diagram of the location Customer Centre



### Translation, German <-> English

Betriebsgebäude: Operations building



In summary, the deliverable is fitting very precisely to the Application Form as the two projects are as described. In addition, they are still in the planned timetable at the moment.