



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

**D.T3.12.2 - Planning of the pilot action, the
battery swarm storage in the town of
Pfaffenhofen**

**Version 1
11 2021**





Relation to the project and the process of the planning of pilot actions in the Town of Pfaffenhofen

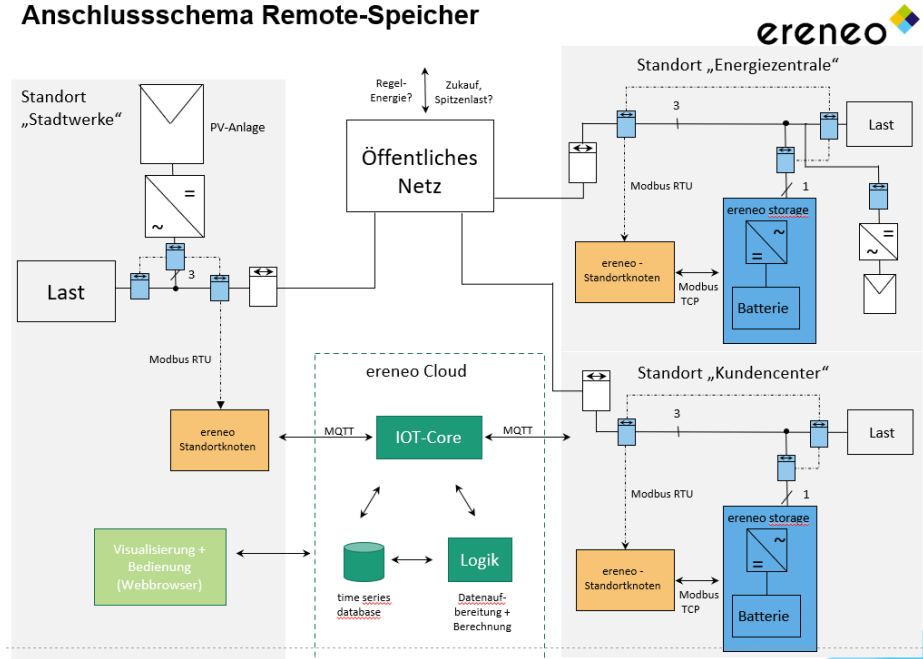
The planning of the battery swarm storage was quite complex. Several workshops and meetings have been held to determine the exact locations and electrical circuitry. The idea was once brought to the municipal utilities by a citizen and will furthermore be implemented. We were supported by several stakeholders, e.g. the BEG (PP09), but also internal and external experts.

The following topics have been covered during the planning process:

- Which battery technology should be used?
 - Decision: the usage of LFP (lithium iron phosphate battery) is the best solution as it is very cost-efficient and well-known. In the future, the usage of sodium-ion batteries should be possible.
- Which locations shall be used?
 - In the wider selection:
 - Customer service center of PP08, Münchener Str. 5, 85276 Pfaffenhofen an der Ilm
 - Main building of PP08, Michael-Weingartner-Straße 11, 85276 Pfaffenhofen an der Ilm
 - Hydro power plant „Armlühle“, Weiherer Str., 85276 Pfaffenhofen an der Ilm
 - District heating plant „Heißmanning“, Anna-Kittenbacher-Platz 1a, 85276 Pfaffenhofen an der Ilm
 - District heating plant „Pfaffelleiten“, Ginsterstraße 1a, 85276 Pfaffenhofen an der Ilm
 - Sewage treatment plant, Joseph-Fraunhofer-Straße 58, 85276 Pfaffenhofen an der Ilm
 - Three locations have been chosen, because of the availability of:
 - Enough space for the installation
 - Feasible electric installation
 - Internet connection
 - Suitable power production and demand
 - The selected locations are:
 - Customer service center of PP08, Münchener Str. 5, 85276 Pfaffenhofen an der Ilm
 - Main building of PP08, Michael-Weingartner-Straße 11, 85276 Pfaffenhofen an der Ilm
 - Hydro power plant „Armlühle“, Weiherer Str., 85276 Pfaffenhofen an der Ilm
- Which equipment will be needed for the communication?
 - For the planning of this, one main chart has been created:

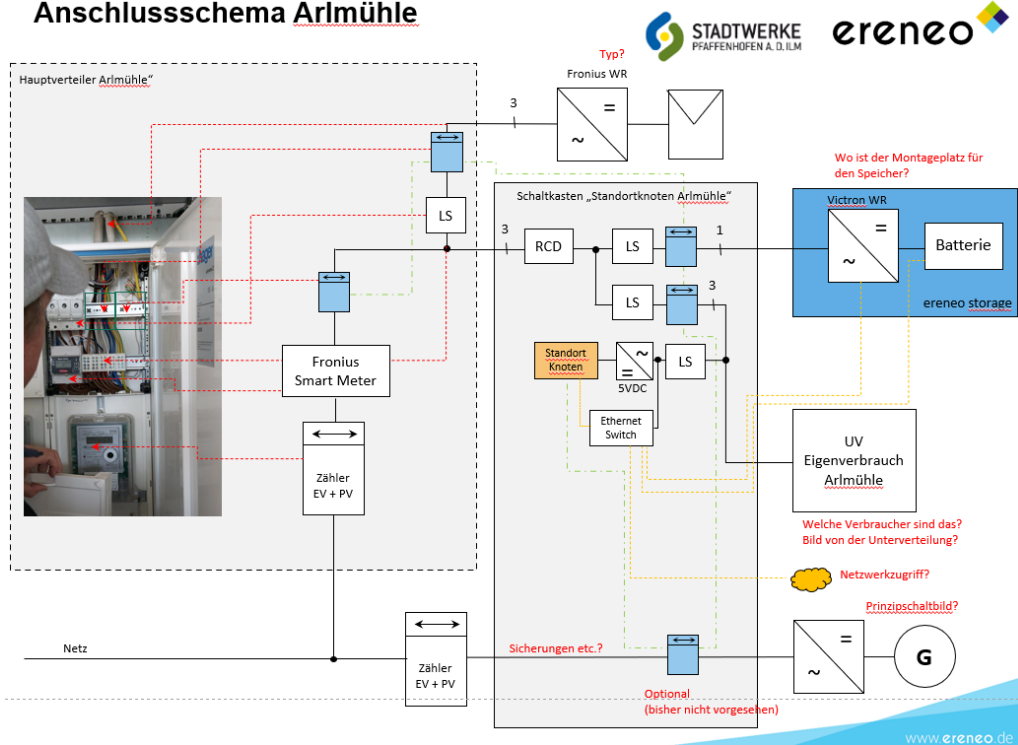


Anschlussschema Remote-Speicher



- How will the individual installation in the locations look like?

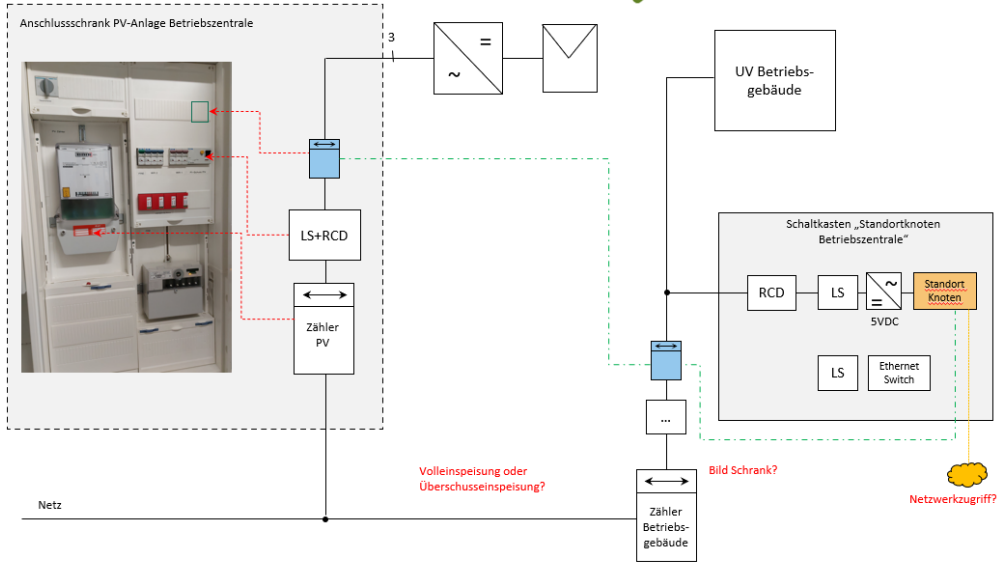
Anschlussschema Armühle



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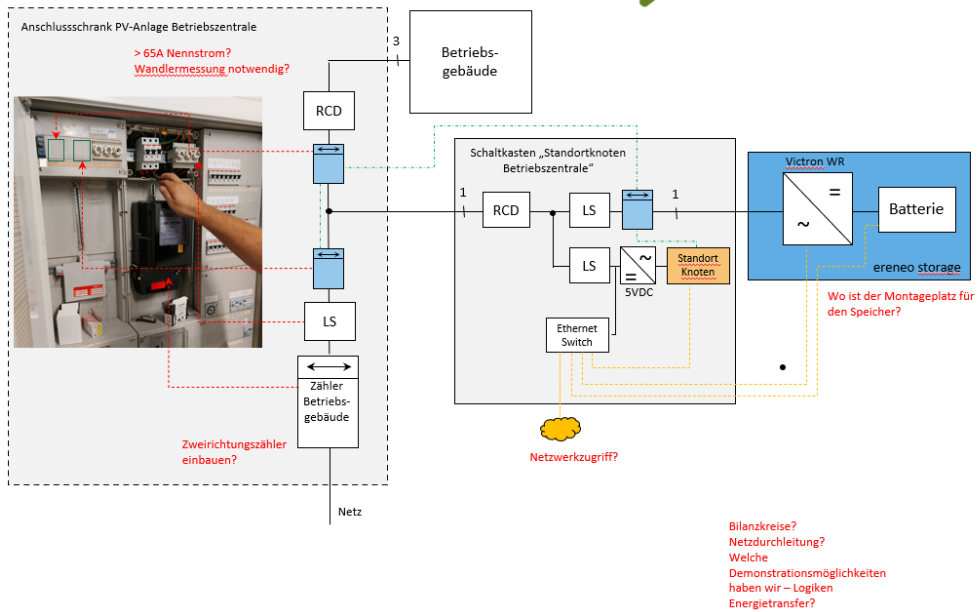


Anschlussschema Betriebszentrale



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