

D.T3.13.1. PA6 - DE: IMPLEMENTING THE DEFINED PILOT ACTIONS IN PFAFFENHOFEN



ENES-CE - Collaboration between public bodies and citizen energy groups in implementing local energy strategies in Central Europe

FINE FACTS ABOUT PFAFFENHOFEN REGARDING THE IMPLEMENTATION OF THE ENES-CE PROJECT

Pfaffenhofen a. d. Ilm is one of the greenest communities in Germany and always trying to improve itself. With its players, the Municipal Utilities and the Energy Citizen Cooperative, the community is always looking for new opportunities and challenges for a more climate-friendly approach. Hence, the participation in ENES-CE was very good fit. The two pilot projects were planned in the spirit of this and reflect this mindset very well.

SPECIFICATION OF PLANNED PILOT PROJECTS

In Pfaffenhofen were two pilot projects planned. Firstly, one of them is a strong measurement and visualization tool for the public in Pfaffenhofen. It is called the CO₂-climate clock. It calculates the time left, when emitting CO₂ in different scenarios, and gives a visual and easy-to-understand output. This will further educate the public in the field of climate protection and raise awareness for the individual influence.

Secondly, a battery swarm storage was planned. This allows to store and release electricity. But what makes it special, is its possibility to communicate with other storage units, producers and consumers. Hence, it will help to manage grid stability and generate added value to the grid, but also to the community. The idea is, to scale this approach even further, especially, when regulatory obstacles are removed.



PREPARATORY STEPS FOR IMPLEMENTING PILOT ACTIONS

Before both pilots have been implemented, a lot of steps have been planned in before. Most important have been the workshops and meetings, where the public and experts met and exchanged different ideas. Within those workshops, also the two implemented ideas have been formed.

After finding those ideas - which are also widely accepted within the community - the technical planning process just started. Different scenarios, possibilities, locations and designs have been thought out. After several meetings, the best plans were substantiated and discussed even further.

Especially the electrical and visual appearances were critical to the pilots. But in cooperation with local experts, very good solutions were found.

QUICK FACTS ABOUT MUNICIPALITY OF FORLÌ

- > Country: Germany
- > Region: Bavaria
- > Total area: 92,39 km²
- > Number of inhabitants: 26.833 (31.12.2021)
- > Public authority/government: city council Pfaffenhofen
- > Expected t(CO₂) savings within the pilot projects implementation: 35/a (with 1.000 installed units)
- > Expected number of stakeholders involved in the pilot projects implementation: 100



> They can also be used to generate additional revenue when citizens make their storage facilities available to the public.

OUR GOAL IS TO SUPPORT THE ENERGY TRANSITION IN GERMANY WITH INNOVATIVE AND CITIZEN-CENTERED SOLUTIONS.

EXPECTED RESULTS

In the future, many different results are expected, as explained below:

- > The CO2-climate-clock will be used for trainings, school visits, climate camps or the climate protection day. In this framework, many different people from various backgrounds will be reached. It will help to raise awareness in a playful way.
- > It will also be used to measure the impact of different scenarios and help to get a better understanding of the individual impact.
- > The location of the pilots was chosen wisely as both are placed in the citizen park in the building of the hydroelectric power plant. In this park, a maximum of people can be reached.
- > The battery swarm storage is made as a pilot for a bigger experiment. In the future, many of little storage units will be connected, so that they are able to communicate with each other and help stabilize the grid.