



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 CO2-Clima-Clock in the Town of Pfaffenhofen

Version 1 10 2021







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

The planning of a CO2-Clima-Clock as a calculation/measurement instrument was an important and interesting phase for our citizen, our stakeholders and our partners. Multiple individual coordinations and planning discussions in the period February to June 2021 took place. The citizen in the BEG (Citizen Cooperative Pfaffenhofen, PP09), our local cooperative partner the SWP (PP09) and serveral supplier, external service providers helped us in the planning phase.

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

- The aim also was to make climate change "comprehensible" to a wider public and to illustrate it very visually.
- In the workshops 1 and 2 of DT3.12.1 an "calculation and design of design variants, a determination of the "Candidate Design" and an qualification of public places for the installation of the CO2-Clima-Clock took place.
- In the first step, discussions were held and information gathered to identify qualified service providers and to obtain a qualified estimate of hardware costs. See e.g. Table 1 in the appendix.
- In a second step, the planning was refined (17.04.) and then offers were obtained from the selected suppliers and savings potentials were developed. See e.g. picture 1 in the appendix.
- The location factors of the CO2 climate clock were further deepened and the location in the Arlmühle building was secured.
- Final offers were obtained later.
- The preparation, especially the planning for the implementation (OT3.1) of the pilot project of the BEG was essentially completed in June.

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

From our experience, the duration of the planning phase for smaller BEG projects is around 6 months.

Due to the good network of a citizens' energy cooperative, the planning could be completed with only little delay despite the pandemic. A success factor was again the group of Leader Peers and Pioneers (LPP ©).





Annexes, Table 1, Working table for estimating hardware costs for the BEG pilot: Coordinated rough approach

Date:		19.04.2021	19 Uhr
Letzter Be	arbeiter:	Hklos 1)	
	Hardware used for estimation	Info source	Costs (without VAT
	Angesetzte Hardware zur Abschätzung	Info-Quelle	Kosten (netto)
			[EUR]
	2 Stück Bildschirme á 750 EUR (brutto)	Amazon	
	Rechner: (High End Gaming wg. Graphikleistung)	Qualified estimation	
		Qualified estimation	
	Schnittstellen und Zubehör für Bildschirmpräsentation	Qualified estimation	
	Bildschirm-Aufstellsystem	Qualified estimation	
	Remote-Accesss und Controlsystem	Qualified estimation	
	Repeater/ WLAN	Qualified estimation	
	Beamer für spätere Anwendungen zur Visualisierung außerhalb und unabhängig von Bildschirmen	Qualified estimation	
	Sonstige E-Technik: 750 EUR (brutto)	Qualified estin	nation
	Abschätzung für das Bedienfeld /Konsole	Qualified estimation	
	Sonstige Kosten	Qualified estimation	
	Overview of the first rough cost estimate		15.500

Annexes, picture 1, Obtaining specific information on the hardware

Monitor		
1	Iiyama 55 L LH5542UHS-B3 - Flachbildschirm (TFT/LCD) - 139,7 cm 9 ms - 1.300:1 - 500 cd/m ² - IPS - DVI - HDMI - RS-232	
2	Delock 85318 - 3 m - DisplayPort - HDMI - Männlich - Männlich - Gerade Kabel DisplayPort 1.2 Stecker > High Speed HDMI-A Stecker Passiv 4K 3 m schwarz	
Rechner	•	
3	Fujitsu CELSIUS W 580 Workstation - Core i7 3 GHz - RAM: 16 GB DDR4 - HDD: 512 GB NVMe - UHD Graphics 600 WS80power - Intel C246 - Intel Core i7-9700 - 16GB DDR4-2666 - 512GB SSD - Intel UHD Graphics 630 - DVD Super Multi - Intel I219LM - Windows 10 Pro Nvidia Quadro P2200 - 5 GB - GDDR5X - 160 Bit - 5120 x 2880 Pixel - PCI Express x16 3.0 4 x DisplayPort (1.4) - 200 GB/s - 1280 CUDA - 5120 x 2880 (60 Hz)	