

OUTPUT FACT SHEET

Tools

Version 2

Project index number and acronym	CE1344 Store4HUC
Output number and title	O.T3.3 Online guide for the software tool & checklist to evaluate the autarky rate
Responsible partner (PP name and number)	University of Zagreb Faculty of Electrical Engineering and Computing PP9
Project website	https://www.interreg-central.eu/Store4HUC
Delivery date	October 2021
Summary description of the key features of the tool (developed and/or implemented) and of its transnational added value	

The tool explained here is focused on providing guidance and instructions to the potential users of the Store4HUC software tools how to use these tools (Module 1 and Module 2) or how to interpret the obtained tool results (checklist for the Autarky rate tool). The challenge is how to simply and intuitively describe the tools functionality.

Module 1 and Module 2 tools, which come with an Excel interface, are supported with an additional Excel sheet within the interface that provides all the basic information regarding the tool. The same content is provided also within a separate pdf file. The information provided refers to explanation of different parameters how the tools are set up for the intended usage. Furthermore, the tools are accompanied with two video tutorials each, that provide a video presentation on how to use the tools. The first video describes how the tool is set up for usage from download of the files from the web to starting own first calculation. The second video gives an overview and explanation how to set up the parameters through which the tool is tailored for a concrete setup which is of interest for the user.

In the Autarky rate tool, the online guide is directly integrated in the information boxes, which provide an additional assistance for filling in the user inputs. After carrying out the calculation, the so-called checklist can be created as a pdf file. Among other things, the checklist serves as a further explanation how to make results understandable. That means, for example, that dependent on the resulting autarky rate (high autarky rate, low autarky rate, etc.), a different explanation text is displayed in the checklist explaining what the resulting autarky rate could mean for the chosen configuration. The same accounts for other key values like the self-supply or the storage efficiency. Moreover, all used values are explained in detail in the glossary part of the checklist.

Furthermore, a video tutorial is available which explains the main features of the Autarky Rate Tool and shows an exemplary calculation. Detailed information about the background numbers used in the tool (energy tariffs; investment costs; etc.) can be found in Deliverable D.T3.2.4.

The guidance and instructions tools were developed to as seamlessly as possible accompany the essential parts of the tools which makes it easy for the users to use them. The instructions and guidance are provided in five different languages (Croatian, English, German, Italian and Slovenian) whereas the translations were prepared by partners from respective countries. This makes a significant transnational added value.

The guidance and instruction tool were tested foremost within the partnership to check whether it is understandable and simple to use by all the partners before it was also translated into national languages by different partners and published together with the software tools. All the guidance files (Excel interface, pdf, video tutorials for all three tools; checklist, documents providing background information) are readily available/accessible on-line through the official Store4HUC project web page.

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The guidance and instructions for Module 1 and Module 2 software tools were primarily developed in Croatia while the Autarky Rate Tool and the checklist were primarily developed in Austria. Also partners from Germany, Italy and Slovenia participated in developing the national versions of the guidance and instructions.

The instructions were implemented in all the mentioned countries via train-the-trainers event and the events of presenting the tools to the stakeholders of the national deployment desks.

Expected impact and benefits of the tool for the concerned territories and target groups

The online guides for Module 1 and Module 2 and the Autarky Rate Tool will enable easier and more intuitive tools usage by various stakeholders. Especially useful are video tutorials that can show in under 5 minutes how the tools are used after being downloaded (Module 1/Module 2) or how the autarky assessment results can be interpreted (Autarky Rate Tool + Checklist). Without these supplement guides the tools would be harder to grasp at the beginning of their usage. Thus, the online guides enable more widespread usage of the developed tools - Module 1, Module 2 and the Autarky Rate Tool.

Target groups for the online guides are the most prospective software tools users - for Module 1 and Module 2 these are investors, energy agencies, heating systems operators and public authorities, while with the Autarky Rate Tool also non-expert users, like household owners, which are interested in installing a photovoltaic system in combination with a storage solution, are addressed.

The guides make the uptake of usage of the created software tools much easier.

Sustainability of the tool and its transferability to other territories and stakeholders

The guides will remain permanently available as part of the download package for the Module 1 and Module 2 tools and as video tutorials available through the project's YouTube channel. The download packages are hosted on the PP9 servers. The Autarky Rate Tool including the checklist will be freely available online for at least five years after the project ends. The used numbers for the calculation, like the energy costs or the information regarding funding opportunities, will be updated at least once per year, to ensure that the tool always corresponds to the state of the art. The other territories can readily use the guides and videos as well as the checklist since there is an English version of them available.

Other stakeholders that could benefit from this output are the research institutions that can use the guides to get to know the developed tools and further develop their extensions for different particular setups.

The lessons learned are that the guidance must be concise and that video tutorials provide a very good introductory insight for the tools.

References to relevant deliverables and web-links

If applicable, pictures or images to be provided as annex

The main related deliverable for online guide for Module 1 and Module 2 is D.T3.3.1 Online guide for the tools which constitutes of i) Excel sheet and pdf online guides available in English and also Croatian, German, Italian and Slovenian within the respective software packages - these are downloadable from the official project web page <https://www.interreg-central.eu/Store4HUC> - Tools section; and of ii) four video tutorials (Module 1: <https://www.youtube.com/watch?v=NafE1-uytKQ> and <https://www.youtube.com/watch?v=K-x0SnfTLB8>; Module 2: <https://www.youtube.com/watch?v=kK6PyaWraUk&t=19s> and <https://www.youtube.com/watch?v=DPByStew7B0&t=15s>) in English on YouTube that are also reachable through the official web page in the Tools section.

The main related deliverables for the online guide for the Autarky Rate Tool are D.T3.2.3 (Tool itself - information boxes and checklist) and [D.T3.2.4](#) which includes background information of the tool. Moreover, there is a [video tutorial available for the Autarky Rate Tool](#) too. All materials and also the mentioned tools are available through the project web page.