

# WORKSHOP WITH PARTNERS AND MEMBERS OF THE "DEPLOYMENT DESKS"- ITALY

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D.T3.3.3

Version 1

09/2021

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Title	Workshop with partners and members of the "deployment desks" - Italy
Deliverable	D.T3.3.3
Authors	Elisa Marino (PP07), Mauro Cornaglia (PP06)
Contributors	Mario Lo Curzio (PP06)
Status	
Reviewed by	
Submission	



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## 1. Summary

The Workshop on using the Store4HUC tools organized by PP06 and PP07 was an opportunity for some of the participants of a training on Renewable Energy Communities, organized by the associated partner CRC Bank Foundation, to get to know some instruments for implementing storages. Within the workshop also the RECON tool from ENEA, the national agency for innovative technologies, energy and sustainable economic development, was presented.

The tools described were the Autarky Rate Tool, Module 1 of the EMS Tool and Module 2 of the EMS Tool, briefly mentioned because still in progress. The workshop was very much practice-oriented because the tools were directly run and many case studies were presented, above all for the Module 1 of the EMS Tool. The participants could get a very deep insight of the functioning and usefulness of the tools, and get inspiration for their application in many different situations.

The opportunity to have the tools translated in Italian proved to be very useful because their use is much eased, given that the topic is very specific and not many might be confident with the English words for it. Also, PP06 presenters provided some explanation of the input data to be inserted in the tools and showed the background documents and all functionalities of the tools' interfaces.

## 2. Date and place

The Workshop took place on July 1<sup>st</sup>, 2021, from 10:00 to 12:00, as an online meeting on Zoom platform.

## 3. Number and types of participants/target groups

More than twenty people subscribed to the event and eleven effectively participated to the training session about EMS Tool.

It is possible to find in Annex 5.2 a screenshot of the Zoom list of participants.

The participants mainly referred to Public Institutions and Local Authorities (*ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development* and different Municipalities). Moreover, there were representatives of bank foundations (Fondazione CRC) and engineering studio that collaborates with local municipalities.

## 4. Topics tackled and Expected effects and follow up

Project partner introduced the topic of the workshop to the different target groups: tools enabling the establishment of energy communities and the optimal sizing of storage systems.

During the training session, the following tools were described: the Autarky Rate Tool, Module 1 of the EMS Tool and Module 2 of the EMS Tool implemented by the project. Every tool was firstly introduced by a theoretical session in which background information and data, functionalities, outputs and potential applications of the tool were presented and discussed. Then, a practical session took part in which the tools were tested on different real case studies: optimal sizing of a photovoltaic system and eventual storage system realized in the framework of a Renewable Energy Community, optimal sizing of a photovoltaic system and eventual accumulation system realized on a city hall and on a residential building.



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There were also additional topics that were discussed with the audience such as: available tools for the dimensioning of the plants constituting the CERs (RES plants, energy storage) developed by ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development.



## 5. Annexes

### 5.1. Invitation and Agenda



## Workshop sull'uso degli strumenti di dimensionamento energetico sviluppati dal progetto Store4HUC

1° luglio 2021, h 10-12

Link per la registrazione [qui](#)

10.00 Saluti e presentazione del Workshop

### Presentazione dell'Autarky Rate Tool

10.05 Introduzione all'AR Tool e dimostrazione pratica del suo utilizzo - Environment Park

### Presentazione dell'Energy Management System Tool

10.35 Introduzione all'EMS Tool- Modulo 1 e 2 e dimostrazione pratica del suo utilizzo

### Presentazione dello strumento RECON di ENEA

10.55 Presentazione dello strumento RECON di ENEA

11.30 Sessione Q&A

11.55 Conclusioni e saluti





## 5.2. List of participants

The screenshot shows a Cisco Webex meeting interface. At the top, the meeting title is 'Parla: Mario Lo Curzio - Environment Park (Coorgan...'. The main content area displays a presentation slide titled 'Visualizzazione delle applica...'. The slide is divided into several sections:

- PARAMETRI ECONOMICI**
  - COSTO ENERGETICO: 635 €/periodo
  - COSTO ENERGETICO (con incentivi nazionali ed europei): 288 €/periodo
  - RISPARMIO SUI COSTI ENERGETICI: 367 €/periodo
  - TEMPO DI AMMORTAMENTO: > 15 anni
- PARAMETRI AMBIENTALI**
  - RIDUZIONE DELLE EMISSIONI DI CO2: 470.3 kg/periodo
- PARAMETRI TECNICI**
  - DI AUTOCONSUMO: 89.2 %
  - DI STOCCAGGIO: 35 %
  - TEMPO DI AUTO-APPROVVIGIONAMENTO: 4515 h
- LIVELLO DI AUTONOMIA ENERGETICA (AUTARKY RATE)**: 52.6% (represented by a semi-circular gauge chart)
- INFORMAZIONE**: A small text box at the bottom left of the slide.
- CREA IL REPORT**: A button at the bottom right of the slide.

The meeting interface also shows a 'Partecipanti (11)' sidebar on the right and a bottom control bar with options like 'Attiva audio', 'Avvia video', 'Condividi', and 'Partecipanti'.



### 5.3. Pictures

**Visualizzazione delle applica...**

PARAMETRI ECONOMICI		PARAMETRI AMBIENTALI	
COSTO ENERGIA FICO	635 €/periodo	RIDUZIONE DELLE EMISSIONI DI CO2	4703 kg/periodo
COSTO ENERGIA FICO	268 €/periodo		
INVESTIMENTO SUI COSTI ENERGETICI	987 €/periodo		
TEMPO DI AMMORTAMENTO	> 15 anni		
METRI TECNICI		LIVELLO DI AUTONOMIA ENERGETICA (AUTARKY RATE)	
DI AUTOCOSUMO	89.2 %		
DI STOCCAGGIO	35 %		
TEMPO DI AUTO-APPROVVIGIONAMENTO	4515 h		

CREA IL REPORT

**CALCULATOR FOR OPTIMAL SIZING OF A PV SYSTEM AND A BATTERY STORAGE SYSTEM**

BASIC PARAMETERS	
Country	Italy
Consumer type	Double household (1 working, 1 at home)
Peak power billing	No
Yearly consumption	3000 kWh
Investment payoff period	25 years
Maximal possible investment	96000 €
Optimality criterion	Yearly cost of the energy exchanged with the utility grid

  

BATTERY STORAGE PARAMETERS	
Number of cycles	10000
Depth of discharge (DoD)	0,8
Charging efficiency	0,9
Discharging efficiency	0,9
Lifetime of power converter	25 years
Price of new battery pack	770 €/kWh
Price of new power converter	660 €/kW





## 5.4. Media coverage

- <http://www.parcofluvialegeossostura.it/news/dettaglio/periodo/2021/06/16/due-eventi-targati-store4huc-sulle-nuove-soluzioni-di-efficiamento-energetico.html>
- <https://www.comune.cuneo.it/ambiente-e-mobilita/news/dettaglio/periodo/2021/06/16/due-eventi-targati-store4huc-sulle-nuove-soluzioni-di-efficiamento-energetico-1.html>
- <https://www.targatocn.it/2021/06/16/leggi-notizia/argomenti/eventi/articolo/cuneo-due-eventi-targati-store4huc-sulle-nuove-soluzioni-di-efficiamento-energetico.html>
- <https://www.fondazioneirc.it/index.php/archivio-eventi-m/sviluppo-locale/percorso-formativo-smart-e-green-economy>

## 5.5. Web-links

- <https://www.facebook.com/parcofluvialegeossostura/posts/10158386896409157>