

# D.T2.4.1

# TOOLBOX PUBLISHED ON AND ON-LINE PLATFORM

Subtitle	Version 1
Subtitle	MM YYYY







The deliverable D.T2.4.1 was fulfilled with the help of two different channels.

On the one hand, it was published on the ENES-CE homepage. It can be found by following this link:

https://www.interreg-central.eu/Content.Node/WPT-2.html

On the other hand, it was published in two newsletters. One for Tool1 + 3 and one newsletter for Tool 2.

**Newsletter for Tool 1+3:** 



## Newsletter No. 3

14th December 2020

#### **ENES-CE**

is addressing the issue of energy efficiency in Central Europe

Development and publishing of tools to support communication in citizen energy projects

The ENES-CE project set itself the task of developing various tools for the public. Here, the focus was on communication as well as economic efficiency. In total, three tools were developed. In this issue we are presenting you two tools that deal with communication (Tool 1 and Tool 3).

Tool 1 concentrates on the methods for a successful workshop. Since workshops are often an essential part of citizen participation, this file can be used in many ways. It contains hints, tips and success factors for conducting them.

Tool 3, on the other hand, focuses more generally on possible communication channels. At the beginning the target group is analysed. This step is essential to ensure targeted communication and should be done before any action is taken. In the second step, numerous methods and tools are introduced and their respective advantages and disadvantages are presented. After a basic classification of the tools has been made, a variety of recommendations are then made.

To each individual thereby the following points are regarded:

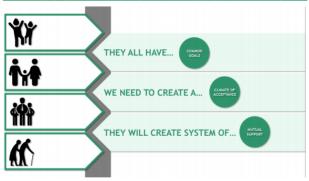
- Target group
- Advantages
- · Recommended frequency
- · Recommendations for a successful post
- Examples

Finally, numerous best practices from the community of Pfaffenhofen (Germany) will be presented. Digital and offline examples will be shown.

This collection of tools is suitable for people who want to promote citizen participation in energy projects. Nevertheless, a certain amount of previous experience is an advantage.

Tool 1: <a href="https://www.interreg-central.eu/Content.Node/200117-1950-D.T2.2.1-Tool1-Co-design-workshop-methods.pdf">https://www.interreg-central.eu/Content.Node/200117-1950-D.T2.2.1-Tool1-Co-design-workshop-methods.pdf</a>

Tool 3: https://www.interreg-central.eu/Content.Node/Communication-Tool-final.pdf



Tool 3 Example: Target Audiences

This project is co-financed by the European Regional Development Fund through the Interreg Central Europe programm www.interreg-central.eu/Content.Node/ENES-CE.html







Tool 3 Example: Best Practice Communication

In the next issue of our newsletter, we are going to present you next interesting tool: The Community Energy Investment Guidelines - technical, business and legal aspects (Tool 2).





#### **Newsletter for Tool 2:**







### Newsletter No. 5

<sup>20th</sup> April 2021

#### **ENES-CE**

Interreg

is addressing the issue of energy efficiency in Central Europe

Development and publishing of tools to support communication in citizen energy projects

The ENES-CE project set itself the task of developing various tools for the public. Here, the focus was on communication as well as economic efficiency. In total, three tools were developed. In this issue we are presenting you tool number two that deals with the first assessment of citizen energy projects (Tool 2).

When starting a new energy cooperative for renewable energy projects, the problem is often how to judge different projects and investment possibilities. This tool gives a strong indication on how high the quality of the specific project is. The tool was created in an EU-wide cooperation and therefore is now a very good tool to get a first feeling for PV-projects worldwide. The tool has open interfaces to integrate other technical and business management Excel-based tools, which can then also be used to map larger overall systems in the field for propuble accounts. Place to the property of the progress of the property of the property of the property of the progress of the property of the proper in the field of renewable energies. PV heat pump systems, for example.

The tool consists of the excel based tool itself as well as some guidelines on how to use it. It was created based on already existing and used tools. One is able to insert basic key indicators and receive a financial outlook as well as an assessment of acceptance by the public. Therefore, in the first step you have to put in your basic assumptions:

Project Assumptions						
1 TOJOUC ASSUMPTIONS						
Legend	1					
Green cells indicate information and are updated						
automatically based on user input into yellow cells.	l .					
Input information about the project into yellow cells.						
Grey cells are not used.						
			Annual	Year	Year	
Project Generation			Escalation	Start	End	Notes
Project Name		PV SWP				
Project Owner		Stadtwerke				
Manufacturer		IBC Solar				
Number of production units		112				
Unit Size (W)		330				
Project Size (kW)		36,96				
Generated Energy per kWp	915	kWh/kWp	-2%	- 1	20	
Rate of self-consumed eletricity		40%				
Project Cost						Notes
Total Cost	€	78.000,00				
Years to Depreciate		20				
			Annual	Year	Year	
Revenue			Escalation	Start	End	Notes
Revenue Power Purchase Agreement Rate / Market RES Rate (€/kWh)		-	2.0%	Start	20	Notes
Funds for Self-consumed Electricity (€kWh)	€		2.0%		20	
End customer price for Electricity (€/kWh)	6		2.0%	- 1	20	
End customer price for Electricity (€/kVVh)		_	2,0%	- 1	20	
				Year	Year	
Equity & Flip Structure				Start	End	Notes
Flip Year		0		54571	2.10	110209
Flip Buy-Out Payment/Fee	€	-		0	0	
Local Owner Percentage Pre-Flip		100%		1	0	
Local Owner Percentage Pre-rip		100%		- 1	0	
Equity Owner Percentage Pre-Flip		0%		1	0	
Equity Owner Percentage Post-Flip		0%		- 1	- 0	
		- 0.76				
Other Public or State Provided Funding	6					
Other Public or State Provided Funding EU Grant	e					
Other Public or State Provided Funding		78.000,00				





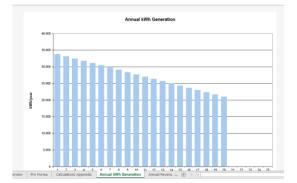




Incentives			Annual Escalation	Year Start	Year End	Notes
Production Incentive Payment (€/kWh)	€	0,28	1%	1	20	
Expenses			Annual Escalation	Year Start	Year End	Notes
Operations & Maintenance	€	672.00	1.5%	- 1	20	
Operations & Maintenance Contingency Fund	€	328,00	1,5%	- 1	20	
Project Management Fee	€	323,00	1,5%	- 1	20	
Insurance	€	600,00	2,0%	1	20	
Property Tax	€	200,00	-1,0%	- 1	20	
Lease Payments to Landowners	€	328,00	2,0%	- 1	20	
Admin/Financial/Legal Management			2,0%	- 1	20	
Production Tax Expense (€/kWh)	€	-	2,0%	- 1	20	
Warranty Expense	€		2,0%	4	20	
Decomm. Fund Pre-Warranty Expiration	€	-	2,0%	- 1	20	
Decomm. Fund Post-Warranty Expiration	€	-	2,0%	- 1	20	

Based on those numbers, you will receive different financial Key Performance Indicators (KPI) as:

- A project summary
- The annual kWh generation The annual revenues
- The sales revenues
- The loan payments The annual expenses
- The Cash-Flow
- The IRR And more



The annual power generation for example will be shown as seen here:

















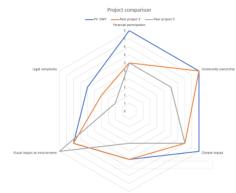
In addition to the financial performance, you can measure the impact on the public opinion as well. Therefore, the individual measurements are explained like shown in this example:

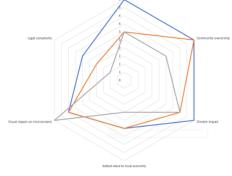
Qualitative assessment criteria for community energy projects

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Project comparison										
Project name	Financial participation	Community ownership	Climate impact	Added value to local economy	Visual impact on environment	Legal complexity	Project cost	IRR	NPV	
PV SWP	5	5	5	3	4	3	€ 78.000,00	0,04	€ 32.761,30	
Peer project 2	3	5	4	3	4	2	€ 350.000,00	0,08	€ 87.145,00	
Peer project 3	3	3	4	2	5	1	€ 441.000,00	0,13	€ 45.621,00	

As a result, a graphic is shown, which can be presented and which is very visual to compare projects against each other:











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This collection of tools is suitable for people who want to promote citizen participation in energy projects. Nevertheless, a certain amount of previous experience is an advantage. All the tools are free to use and can be downloaded following this link:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left($ 

https://www.interreg-central.eu/Content.Node/WPT-2.html



