Interreg Danube Region | Co-funded by the European Union

NRGCOM

Appendix to activity A.T.3.3 – project NRGCOM

Table: Joint development of a technological solution for RECs involved in the project for more resource and cost-effective operation

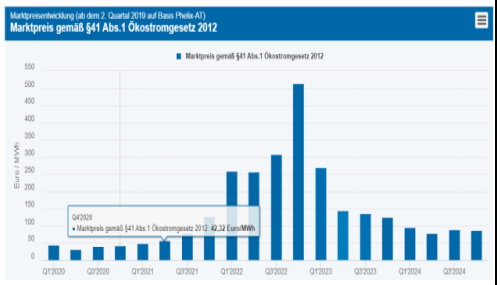
Overview of the results of the survey participants' findings and evaluation of the applicability of the results as a basis for the creation of a SW tool for the management of Energy Communities. The table documents in detail the individual findings from the partner questionnaires

DESCRIPTION /SUMMARY:

	Question/Specification:	*Answers/Partners:*					
		JAIP	**KSSENA**	**FORSCHUNG**	**NEK**	**IRENA**	**EVALUATION OF FINDINGS** **A - crucial for SW** **B - variable parameter** **C - irrelevant for SW**
	Circle of general questions						
1.	**Which model of the functioning of the EC legal system in your country is decisive ?** (see your results from activity and documents A.T.1.1 and A.T.1.2) Tick the appropriate answer: A - Energy community as organization based on interest association B - Energy community as a cooperative form C - The energy community as a business company D - Energy community as association with connection and participation	**A,B,D**	**A,C,D**	**B,D**	**A**	**A** **Energy community organized as association**	**A**

	of citizens						
2.	**Are there any registered communities within 50 km in your area?** *(Select answer):* A - YES B - NO C - DON'T KNOW	**A**	**A**	**A**	**B**	**B**	**A**
3.	**In which location do you plan to create an EC?** *(Select answer):* A - housing estate, B - industrial development, C - house development	**?**	**A**	**Mixed form - Municipality of Neudörfl**	**B**	**Agency headquaters**	**B**
4.	**What amenities are in your area?** *(Select answer):* A - kindergartens, B - schools, C - local government, D - business and cultural centers, E - other ...	**A,B,C, D,E**	**A,B,C,D,E**	**A-E,** **others are Sports facilities, bathing lake, inns and wine taverns**	**D,E**	**A,B,C,D,** **E + F industry + hospitality activities and tourism**	**B**
5.	**Are there potential buyers of your energy resources or products in your area?** *(Select answer):* A - yes B - no	**A**	**A**	**A** **Yes, end customers for (electrical) energy**	**A**	**A**	**A**
6.	**Do you have support from local authorities?** *(Select answer):* A - yes B - No C - Cannot assess	**A**	**A**	**A**	**C**	**A**	**A**
7.	**How many households, institutions or companies are interested in working with you** **(within a radius of 500 m) ?** Please give an estimate of the number: *(Select answer):* A - up to 5 B - up to 20 C - up to 50	**B**	**B**	**C**	**B**	**B**	**B**
8.	**Is there spare capacity in your area to connect to the distribution network, called**	**B**	**B**	**B**	**C**	**Yes**	**A**

	an access point point (grid connection)? *(Select answer):* A - no If yes, in what capacity? B - sufficient C - insufficient *Note - indicate the possible capacity in KWh*			**The exact capacity is not known, but all grid enquiries for PV systems <250 kWp are currently decided in favour**			
9.	**Which form of RES - based energy mix provision do you prefer in your EC? (critical energy source)** *(Select answer):* A - RES based on photovoltaics B - RES based on ground source pumps and heat recovery units C - RES based on wind sources D – biomass and biodegradable waste E - hydro F - geothermal energy G - RES (EC placement on rooftops, land, other....) *Note: RES - renewable energy source (photovoltaic, hydro, wind, biomass, etc.)* *RES - conventional energy source (gas, solid fuels*	**A**	**A**	**A** **is reality, preferable would be a mix of all of them**	**A,B,D**	**A**	**B**
10.	**What form of technical design do you prefer for the localisation of RES in your EC?** *(Select answer):* A - location on the roofs of buildings B - location on agricultural on agricultural land C - siting in grey areas industrial areas D – location in a „ brownfields “, abandoned industrial areas	**A**	**A**	**Should be also a mix, different studies show, that location only on rooftops are not sufficient to reach goals für renweable expansion**	**C**	**Location on the roofs of buildings location on parking lots**	**C**
11.	**Is there any financial support for the construction of the EC from subsidies in your country?** *(Select answer):* A - yes B - no C - don't know	**A**	**A**	**For the organisational part there is a funding programm from national climate fund for innovative ECs:** Energiegemeinschaften 2024 – Klima- und Energiefonds **For infrastructure different funding options independent from EC are applicable**	**A**	**No**	**C**

12.	**Can you specify a crucial figure for the feed-in tariffs in your country in the current period of 2024?** *(Please provide an estimated figure in EUR per unit price and also an estimate of the total feed-in price for application in the EC if it is specifically defined or possibly discounted)*	**0,15 €/kWh**	**Feed-in tariffs are no longer available for new solar power plants since 2012 and the existing ones are about to expire.** **A state aid scheme offering premium tariffs is based on the market price of electricity each year.**	**The OEMAG feed-in price has been calculated in two stages since Jan 2024: the settlement prices of the last five trading days on which all base load quarterly futures for electricity deliveries of the following four quarters were quoted on the European Energy Exchange (EEX) are used as the basis for the calculation at the end of the respective quarter.**  **Based on the marketed electricity volumes of the green electricity settlement agent, an average volume-weighted day-ahead hourly price per month is now calculated and published by the green electricity settlement agent in accordance with section 41 para. 2a of the Green Electricity Act 2012. This volume-weighted day-ahead hourly price is used to set an upper limit for the market price to be remunerated. The lower limit is also 60 per cent of the market price in accordance with section 41(1) Green Electricity Act 2012. Further information can be found on the website of the Green Electricity Settlement Body.** **Prices of 2024:** **Jan: 8,137 ct/kWh** **Feb: 6,293 ct/kWh** **Mar: 5,776 ct/kWh** **Apr-Jun: 4,655 ct/kWh** **July: 5,339 ct/kWh** **August: 5,827 ct/kWh**	**No**	**No feed-in tariffs for EC**	**B**

				Sept: 6,038 ct/kWh **Oct: 6,867 ct/kWh**			
13.	**Are you planning to build warm water or central DHW systems as part of the local EC development in your country?** *(Select answer):* A - yes already at present B - yes, but prospectively C - no D - not relevant to domestic conditions	**C**	**A**	**C**	**C**	**No**	**B**
14.	**How much energy do you plan to produce within your EC?** Please provide a specific estimate in kWh/day	**?**	**In average: 5652 kWh/day**	**Energy is only provided by the members' plants; the EC alone will not build any plants.** **The energy produced therefore depends on the members' systems - currently just under 400 kWp of photovoltaic output.**	**We cannot judge**	**Not calculated still.** **Based on current capacity (250 kW) taken in consideration 337.500 kWh/year .**	**B**
15.	**Are you interested in recuperation systems in your apartment buildings, buildings and consumer distribution units?** *(Select answer):* A - yes B - no C - partially, but in conjunction with others RES sources	**C**	**B**	**C**	**A**	**No**	**A**
16.							
	The range of operational issues:						
17.	**What is the current RES-based energy mix in your country?** *(Select answer):* A - companies and ECs where today already presented a ratio of RES in the total energy mix between 0 and 10%. B - enterprises and ECs where the RES share of the total energy mix is already presented today from 10 to 30% C - enterprises and ECs where the share of RES in the total energy management above 30% is already presented today,	**A**	**A**	**C – app. 50% over all sectors of energy**	**B**	**No operation EC in our country (3 EC have been registrated but are not fully operational)**	**B**

18.	**What is the current estimate of gross turnovers /total sales for the critical ECs in your country, taking into account the share of RES?** *(Select answer):* A - unknown B - less than EUR 100 000 per year C - between EUR 100 000 and EUR 300 000 per year D - above EUR 300 000 per year	**B**	**I can't judge.**	**For EC in Neudörfl B,** **for all ECs in Austria D**	**B**	**NA**	**C**
19.	**What do you estimate the profit rate in your ECs in the last financial year under review?** *(Select answer):* A - unknown B - indicate the specific % of total brutto EC turnover	**A**	**I can't judge.**	**+/- 0%** **By definition, energy communities must be non-profit organisations and any profits must be reinvested**	**A**	**NA**	**C**
20.	**Please give the characteristics of the region of operation of your EC in your country and indicate the number of known ECs?** *(Select answer):* A - in the capital or major metropolitan areas of the country B - in regions outside the centres C - in local neighbourhoods	**A,B,C**	**B** **1 energy community in the Savinjska region. This number is expected to increase in 2025, when the submissions to the national call for proposals for co-financing the construction of new solar electricity generation systems on public buildings and car parks are evaluated and approved.**	**B/C**	**B**	**NA**	**B**
21.	**What is the total number of staff in the EC in question in terms of management and operational tasks?**	**A**	**A**	**A** **all of them honorary**	**B**	**NA**	**C**

	(Select answer): A - up to 9 B - 10 to 24 C - 25 to 49 D - 50 or more						
22.	**To what extent are RES-based energy carriers currently included in the energy consumption of your ECs?** *(Please select your answer and rate on a scale of importance 1-5: (1 - fully deployed , 2 - deployed above 70%, 3 - deployed at 60%, 4 - deployed above 50%, 5 - deployed below 50%):* A - The company exclusively uses CHP electricity sources from distribution central grids at 100% B - The company exclusively uses electricity sources from RES from distribution central grids up to 70% C - The company exclusively uses electricity sources from RES from distribution central grids up to 50% D - The company exclusively uses electricity sources from RES from distribution central grids up to 20%.	**?**	**C**	**D** **The EC supplies around 30% of the members' grid procurement from the EC. It is not possible for the EC to determine which electricity supply contracts and therefore which shares of renewable energy are included.**	**B**	**NA**	**B**
23.	**To what extent do you foresee the involvement of RES-based energy carriers in the future energy consumption of your EC?** *(Select answer and rate on a scale of importance 1-5: (1 - use above 50% , 2 - use above 40%, 3 - use at 30%, 4 - use above 20%, 5 - use impossible):* A - the EC will continue to use RES electricity sources from distribution central grids B - the EC will use electricity sources from the company's own RES in a minimum defined share of the total energy supply above 30% C - the EC will use electricity sources from the company's own RES in a minimum	**A1**	**B**	**A1:** **The EC will not use electricity from centralised distribution grids - by definition as a renewable energy community subject to proximity criteria, this is not possible. However, the members will continue to use around 70% of their electricity from such sources. This rate shoud be decreased to to additional measuares (use of storage and flexibility activatin measures).** **B1**	**B**	**A1,B2,C3,D4**	**B**

	defined share of the total energy supply above 30% D - the EC will use electricity sources from the company's own RES in a minimum defined share of the total energy supply up to 10%						
24.	**Which RES-based energy carrier source do you consider to be the mainstay for future application in the energy economy of your EC?** *(Select the answer and assign the appropriate designation to the RES energy carrier considered for application in the enterprise according to 1-4: (1 – biomass and biodegradable waste, 2 - photovoltaics, 3 - heat pumps, 4 - solar energy)):* The EC will be preferably and proportionally be significant in the application of RES in the energy management of the enterprise within the energy mix, in particular: A – biomass and biodegradable waste B - Photovoltaics C - heat pumps D - heat recovery E - hydro power	**B**	**B,C**	**B**	**A,B,C**	**B**	**A**
	The range of management issues:						
25.	**What do you consider important in your EC when using management tools in energy management?** *(Please select your answer and rate on a scale of importance 1 - 5 : (1 - very important + 5 unimportant/not important)):* A - Software support B - Sophistication and updating of the management methodology C - Fostering a team spirit of creativity and innovation D - Support for quick decision-making in crisis situations E - Price and operating costs F - Possibility of immediate partial solutions	**A - Software support (1)** **B - Sophistication and updating of the management methodology (2)** **E - Price and operating costs (1)**	**A1,D2,E2, K2**	**A,C,E,K**	**A2,F1,G3**	**A1,B1,C3,D1, E1,F3,G3,H3, K3**	**B**

	to overcome problems G - Level of external consultancy support services H - Speed of implementation of solutions K - Ease and clarity of deployment and use of tools						
26.	**To what extent are the following statements inherent in your management practice in the EC?** *(Please select your answer and rate on a scale of importance 1-5 : (1- strongly agree, 5- do not agree at all)):* A - The range of current management methods and tools for managing and assessing energy and environmental efficiency is difficult to navigate B - Most of the related management methodologies and techniques are complicated, technically demanding and therefore own intuitions and considerations are rather preferred C - The available methodologies and tools are adequate for managing and assessing the energy and environmental performance of EC operations	**A2,B3 C1**	**A2,B3,C4**	**A3,B4,C2**	**A3,B3**	**NA**	**C**
27.	**Appreciate this statement: the EC's innovation and governance strategy for the energy economy is clearly communicated, everyone knows what the improvement is** *(Select answer):* A - yes, this is true B - no, it is an unfulfilled statement C - the fulfilment of the statement is only average and vague	**A**	**C**	**A/C**	**C**	**NA**	**B**
28.	**Appreciate this statement: the EC works directly with major customers and consumers to produce and distribute energy that takes into account the energy and environmental technical and social aspects and requirements of the times and, in particular, the stability of the EC's operation**	**?**	**A**	**A** **however, major customers may not be active members of ECs**	**A**	**NA**	**B**

	(Select answer): A - yes, this is true B - no, this is an unfulfilled statement C - the fulfilment of the statement is only average and vague						
29.	**Rate this statement:** **Substantial and clearly readable indicators and assessments are applied to help improve innovative energy management in the EC** *(Select answer):* A - yes, this is true B - no, this is an unfulfilled statement C - the fulfilment of the statement is only average and vague	**A**	**A**	**A**	**C**	**NA**	**C**
30.	**Appreciate this statement:** **Innovative ideas, energy saving solutions and deliveries to customers and consumers, independent of changes in the EC's energy management, are usually completed on time, on budget and on cost.** *(Select answer):* A - yes, this is true B - no, this is an unfulfilled statement C - the fulfilment of the statement is only average and vague	**A**	**A**	**A**	**B**	**NA**	**C**
	Other ideas of your own to complete the questionnaire:						
		No	**No**	**No**	**No**	**No**	
	Space for additions and comments for questionnaire participants:						