



# D2.4 Report on municipal roadmaps & action plans

February 2024

English summary of Croatian roadmap



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# Introduction

A key element of the LIFE LOOP project is the development of the Community energy Roadmaps that the pilots have been developing, in parallel with the community energy workshops and with the support of the Task forces (Electra in Crete; REGEA and ZEZ in Zagreb; Cooperativa de Energie in Bistrita) led by REScoop.eu and the overall facilitation of Energy Cities.

A roadmap is a strategic plan which is the outcome of collaborative effort and a participatory process that brings together all relevant stakeholders of the local community. A roadmap allows all the participating stakeholders to make the best use of the locally available renewable energy resources, by benefitting from all related skills, assets, capacities and opportunities and thereby, reduce drastically the impact of the climate and energy crisis on their community. The roadmap of each pilot is tailored to the specific local needs and specificities of the relevant area, which focuses and guides the respective efforts and actions towards a shared vision. This strategic plan analyses the dynamics of the local community, articulates the goals and develops alternative pathways, actions and strategies to meet the shared vision.

In all three pilots their design started from analysing positions, mapping relevant stakeholders and incentives, and defining avenues for city and citizen collaboration in local solar energy as well as energy retrofit projects. As the three pilots had different visions about their future (that were linked to the concrete objectives of the LIFE LOOP project), different strategies and concrete actions were developed for the upcoming period.

Area	New citizen-led initiatives	(Municipal) actors with increased skills	Investment triggered €	CE energy savings (GWh)	Additional CE RE (GWh)	Authorities replicating	Citizens involved	Citizens Informed	Carbon savings (tCO2)
Technical partners								612 054	
<b>Pilots</b>									
Croatia, Zagreb	5	150	3 000 000	0,00	3,90	10	10 000	100 000	1 073
Greece, Crete	5	200	4 000 000	0,80	1,30	10	10 000	108 930	578
Romania, Bistrita	5	175	5 580 000	6,00	4,68	5	700	90 000	2 937
<b>Satellites</b>									
Bulgaria, Gabrovo	5	30	500 000	1,50	0,55	3	300	3 000	563
Italy, Ussaramanna	2	40	100 000	0,07	0,08	3	100	1 345	39
Italy, Villanovaforru	2	40	100 000	0,07	0,08	3	100	1 349	39
Cyprus	3	100	1 000 000	0,30	0,60	3	3 000	62 510	247
Romania, Tulcea	2	70	2 528 000	2,50	0,39	5	500	5 000	795
<b>Associated Partners</b>									
Kosovo, Pristina	1	30	50000	0,03	0,04	2	200	2 000	19
N. Macedonia, Skopje	1	30	50000	0,03	0,04	2	200	2 000	19
Bosnia, Mostar	2	30	32000	0,02	0,01	2	250	2 000	9
Croatia, Porec	1	15	25000	0,00	0,02	2	100	2 000	6
Serbia, Kragujevac	1	30	50000	0,03	0,04	2	200	2 000	19
<b>Totals</b>	<b>35</b>	<b>940</b>	<b>16 815 000</b>	<b>11,34</b>	<b>11,72</b>	<b>52</b>	<b>25 650</b>	<b>994 188</b>	<b>6 342</b>

Figure 1: LIFE LOOP Objectives





All the initiatives aim to establish community energy projects and, in parallel, contribute to awareness raising on the value of community energy. Especially in Greece and in Croatia, the ambition is to support citizen involvement and mobilisation of private funding for community energy projects. While in Greece the broader management of the community lies on the hands of the citizens, in the case of Croatia, and certainly in the case of Romania too where there is no supporting framework, the local authorities have the main control of the energy projects and aim to involve the local communities. In all three pilots, the initiatives wish to generate renewable energy and contribute to energy savings with the active participation of the local communities. For this to happen, all pilots, have been also engaging and training municipal actors.

In Croatia, the city has decided to replicate the Vienna business-model, basically consisting of green bonds that citizens can invest in. The main strategies involve the testing of the PPA model on 16 different locations in the City of the Zagreb, and the installation of the solar PVs for self-consumption by the City company. For a part of these locations, the city is also developing a tender for the development of a genuine community energy project managed by a local energy community.

The next pages present the translation of the action plan that has been designed by the Croatian pilot in order to achieve its vision. This action plan is not a static document, and might change as it is meant to support a rather dynamic process that guides and accompanies the community throughout its lifetime. The action plan will also be used by the LIFE LOOP team to monitor the progress of the project's implementation work.



## Zagreb Action Plan

	Jan 2024	March 2024	May-June 2024	June-Nov 2024	December 2024	March-Sept 2025
Goal	Testing PPA model on 16 locations in the City of the Zagreb	Preparation of process for City of Zagreb company for installation of photovoltaics	Preparation of process for City of Zagreb for installation of photovoltaics for self-consumption	Process of the installation of the photovoltaics power plants for self-consumption.	Connection to the grid all installed power plants for self-consumption.	Completion of installation of remaining power plants for self-consumption..
Activities	Finish public tender and start process of Installation of 16 photovoltaics plants	Preparation for around 18 photovoltaics plants	Preparation of public tender and starting process for installation of 54 photovoltaics plants	Contracting of 54 PV plants.	Connection to the grid of 54 PV plants.	Full operation of 54 PV plants.
Predicted output	1.4MW, with production approx. 1.6 GWh	Approx. 4 MW, approx. 4.5 GWh	Approx. 5 MW, approx. 5.7 GWh	Approx. 5 MW, approx. 5.7 GWh	Approx. 5 MW, approx. 5.7 GWh	Approx. 5 MW, approx. 5.7 GWh
Community involvement	Potential involvement of citizens as co-investors through green bonds. Specific details TBD.	Potential involvement of citizens as co-investors through green bonds. Specific details TBD.	Involvement as co-investors through green bonds. Planned 2,5 MW (2,75 GWh, 2,2 Meur) offered to citizens through green bonds.	Involvement as co-investors through green bonds. Planned 2,5 MW (2,75 GWh, 2,2 Meur) offered to citizens through green bonds.	Involvement as co-investors through green bonds. Planned 2,5 MW (2,75 GWh, 2,2 Meur) offered to citizens through green bonds.	Involvement as co-investors through green bonds. Planned 2,5 MW (2,75 GWh, 2,2 Meur) offered to citizens through green bonds.

