



D2.4 Report on municipal roadmaps & action plans

February 2024

English summary of Romanian 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	
Pilots									
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
Satellites									
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
Associated Partners									
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
Totals	35	940	16 815 000	11,34	11,72	52	25 650	994 188	6 342

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 Romania, the strategy of Bistrita focuses on the installation of solar thermal and photovoltaic panels on 15 public buildings. In addition, the city is planning to train the local residents and users of these buildings with the goal to help them maximise their consumption of locally generated renewable electricity, heat as well as hot water, reducing in this way their costs. Another strategy focuses on the refurbishment and installation of photovoltaic panels on 50 blocks of private and social apartments in the municipality of Bistrita for the provision of the necessary electricity in the common areas of the block. Lastly, a coordinated and collaborative action is being planned to take advantage of the local renewable resources by installing photovoltaic panels on 100 private houses to cover the local electricity needs.

The next pages present the translation of the action plan that has been designed by the Romanian 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.



Bistrita Action Plan

Participatory action to local renewable resources through the refurbishment and installation of photovoltaic panels on 50 blocks (private and social) in the municipality of Bistrita, to provide the necessary electricity in the common areas of the block.

Actions	Deliverable	Timeframe	Responsible
Enrolment in the programme, by submission of the application by owners' associations	<i>Application registered at the Bistrita City Hall and registered in the records of the specialized department that manages the elaboration of the related Technical and Economic Documentation.</i>	2022 – 2025	<i>Owners association, Bistrita City Hall - responsible for each block lot: Ioan Papoi, Angela Muresan</i>
Formalising the partnership between the municipality and the owners' associations	<i>Mandate contracts concluded between the Municipality of Bistrita and owners' associations</i>	2023 – 2025	<i>Owners Association, Bistrita City Hall Ioan Papoi, Angela Muresan</i>
Preparation/update of the annual investment plan	<i>List of investments related to the annual Local Budget</i>	2023-2024- 2025	<i>Bistrita City Hall Investment Director Lia Ivascu</i>
Preparation and approval of the Technical and Economic Documentation	<ul style="list-style-type: none"> - <i>Technical expertise;</i> - <i>Energy audit;</i> - <i>Documentation for the Approval of Intervention Works (DALI);</i> - <i>General and analytical estimate;</i> - <i>Decision of approval of the DALI by the Local Council of Bistrita Municipality;</i> 	2023 - 2025+	<i>Bistrita City Hall - technical responsible appointed by the Director Lia Ivascu, Project manager designated by the director Liliana Cocesi, Designer, Owners Association, Bistrita City Council</i>



	- Decision approving the value of the investment on behalf of the Owners' Association.		
Identifying and contracting grant funding	Financing contract concluded	2022 - 2025	Funder, Bistrita Municipality
Contracting and execution of works, including installation and commissioning of the photovoltaic panels included in the investment	Works contract concluded	2022 – 2025	Ministry and Mayor of Bistrita Municipality
Acceptance of works	Acceptance report on completion of works	2024 – 2025+	Builder, Bistrita City Hall, director Liliana Cocesiu, head of service Cristian Timoce and director Lia Ivascu
Calculation of the individual amount to be paid and imposition of the special fee to the owners	- Decision of the Local Council of the Municipality of Bistrita;	2024 – 2025	Bistrita City Hall, Owners Association, Builder
Payment of the own contribution in instalments	- Individual payment notification	2024 - 2034	Bistrita City Hall, Bistrita City Council, Owners, Owners Association

Participatory action to harness local renewable resources by installing solar thermal and photovoltaic panels on 15 public buildings and organisation of trainings to provide electricity, heat g and hot water.

Actions	Deliverable	Timeframe	Responsible
Identification of learning units included in the programme	Energy audit report and technical expertise carried out	2023	Bistrita City Hall, 2030 Sustainable Development Department, Technical Department
Preparation/update of the annual investment plan	List of investments for the annual local budget	2023+-2024-2025	Educational establishments in the municipality of Bistrita
Preparation and approval of the Technical and Economic Documentation	<ul style="list-style-type: none"> - <i>Documentation for the Approval of Intervention Works (DALI);</i> - <i>General and analytical estimate;</i> - <i>Decision of approval of the DALI by the Local Council of the Municipality of Bistrita</i> 	2023-2024	Bistrita City Hall, Investment Director Lia Ivascu
Identification and contracting of grant funding	Financing contract concluded	2024	Bistrita City Hall, Designer, Bistrita City Council
Contracting and execution of works, including installation and commissioning of photovoltaic panels included in the investment	Works contract concluded	2025-2026	Financier, Municipality of Bistrita, Sustainable Development Department 2030
Acceptance of the works	Acceptance report on completion of works	2026	Builder, Municipality of Bistrita, Educational Units
Monitoring of project results during the sustainability period	Sustainability reports	2027 - 2031	Municipality of Bistrita, Education Units, Builder



Cooperative action to harness local renewable resources by installing photovoltaic panels on 100 individual houses to cover the energy electricity needs

Actions	Deliverable	Timeframe	Responsible
Dissemination of best practices with on-site examples and possible partnerships for additional energy production	List of signatures and event photos	June 2023	<i>Cristina Cudrec</i> <i>Iulia Popartac</i>

