



LIFE-BECKON EU Launch Event

Supporting mechanisms for local authorities
to deploy energy communities

26 April 2023

LIFE-BECKON supporting mechanism to deploy
energy community

Federico Noris - R2M Solution



Co-funded by the
European Union

BECKON: Quick Facts

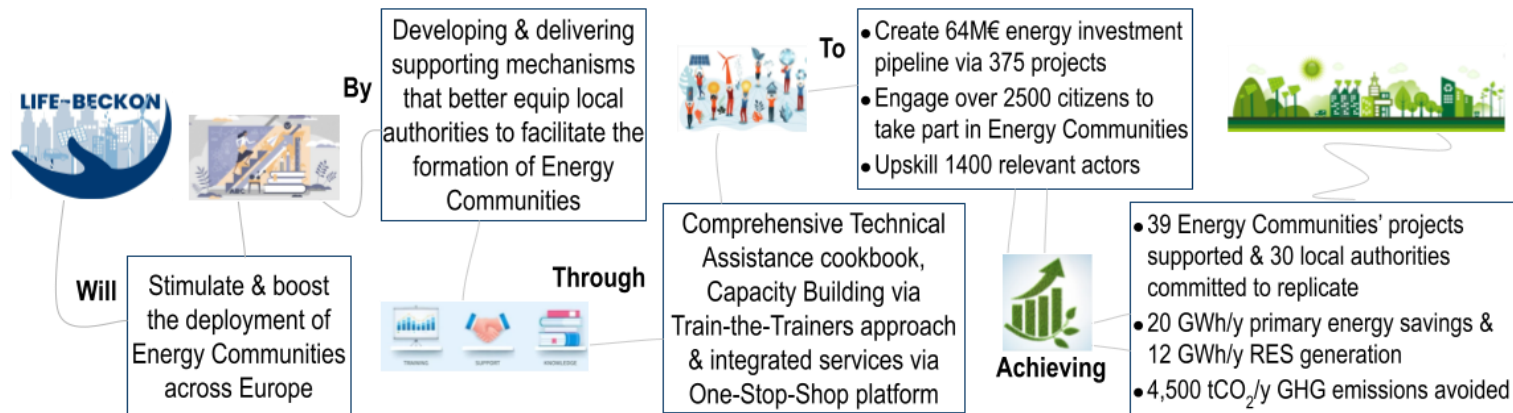
Started 11/2022 - Finish 10/2023 - Duration 3 years

The  team



Overarching Goal

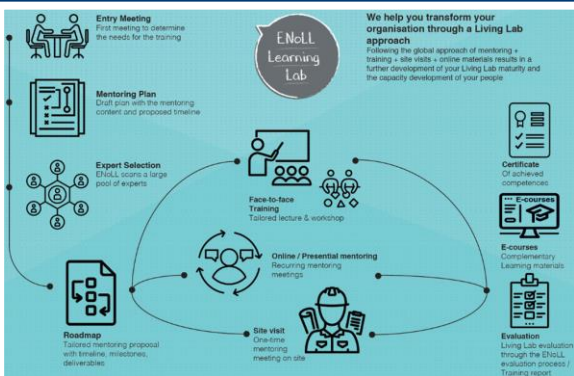
- Boost the **deployment of Energy Communities** by providing public authorities with
 - a. **Technical Assistance** cookbook to equip **Technical Assistance Offices**
 - b. **Capacity Building** via **Train-the-Trainer**
 - c. Integrated services via **One-Stop-Shop (OSS)** platform
- Validate in **3 supramunicipal areas** in diverse EU regions



- **Replication via an extensive network of municipalities and country champions**

- Launch of 25 ECs in demonstration areas
- Call for replication for delivery TA to 15 ECs
- Engage with >30 authorities to replicate support mechanisms

Concepts



Steps	Potential applicants	Associated TA services
1 st step – Initiation: there is an intention to setup an Energy Community but little is developed/identified based on Conceptual Design	<ul style="list-style-type: none"> citizens & consumers associations public authorities, LAGs energy cooperatives energy utilities and ESCO 	<p>Assessment of local renewable potential</p> <p>Assessment of local energy demand to identify:</p> <ul style="list-style-type: none"> which users to involve assets controllable via demand side management <p>Identification of key local actors to setup the energy communities</p> <p>Guidelines for development of organisational process and institutional structure</p>
2 nd step – Technical design: preliminary energy demand profiles and opportunities identified with economic evaluations. Specific support before deployment starts. Pre-implementation study to deploy the Energy Communities	<ul style="list-style-type: none"> citizens & consumers associations public authorities, LAGs energy cooperatives energy utilities and ESCOs power plant, industries and facilities with power generating infrastructure 	<p>Assessment of existing energy infrastructure and assets to involve in the Energy Community, possibly after adaptation/improvement</p> <p>Pre-feasibility study and definition of hardware installation needed and sizing of equipment</p> <p>Cost-benefit analysis based on current energy supply contracts and present/future opportunities</p> <p>Assessment of financial position and efficiency of potential Energy Community projects</p> <p>Feasibility study on a specific aspect/installation</p> <p>Economic and financial modelling to enable financing facilitating project deployment</p> <p>Business plan development and guidelines</p>

Technical Assistance Cookbook

Technical Assistance Office



TA Categories



Technical support



Financial and Operational support



Participatory process and user engagement



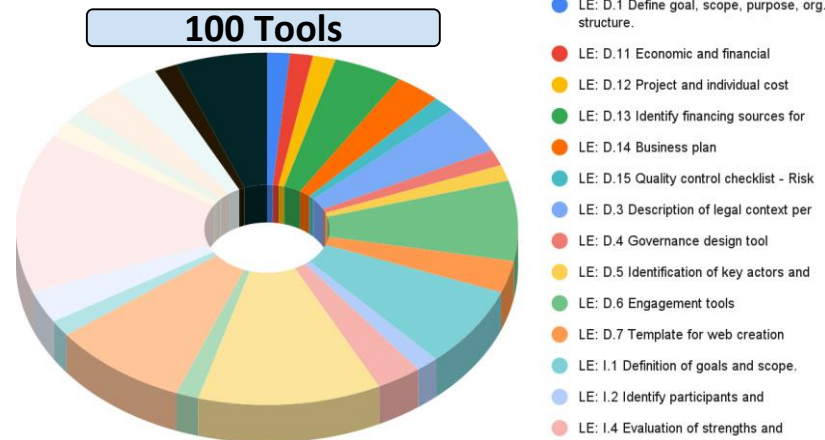
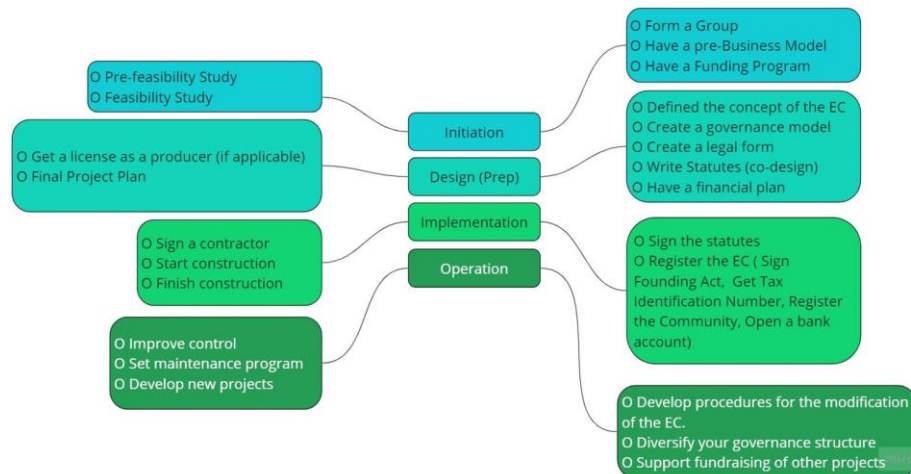
Regulatory support



Legal support



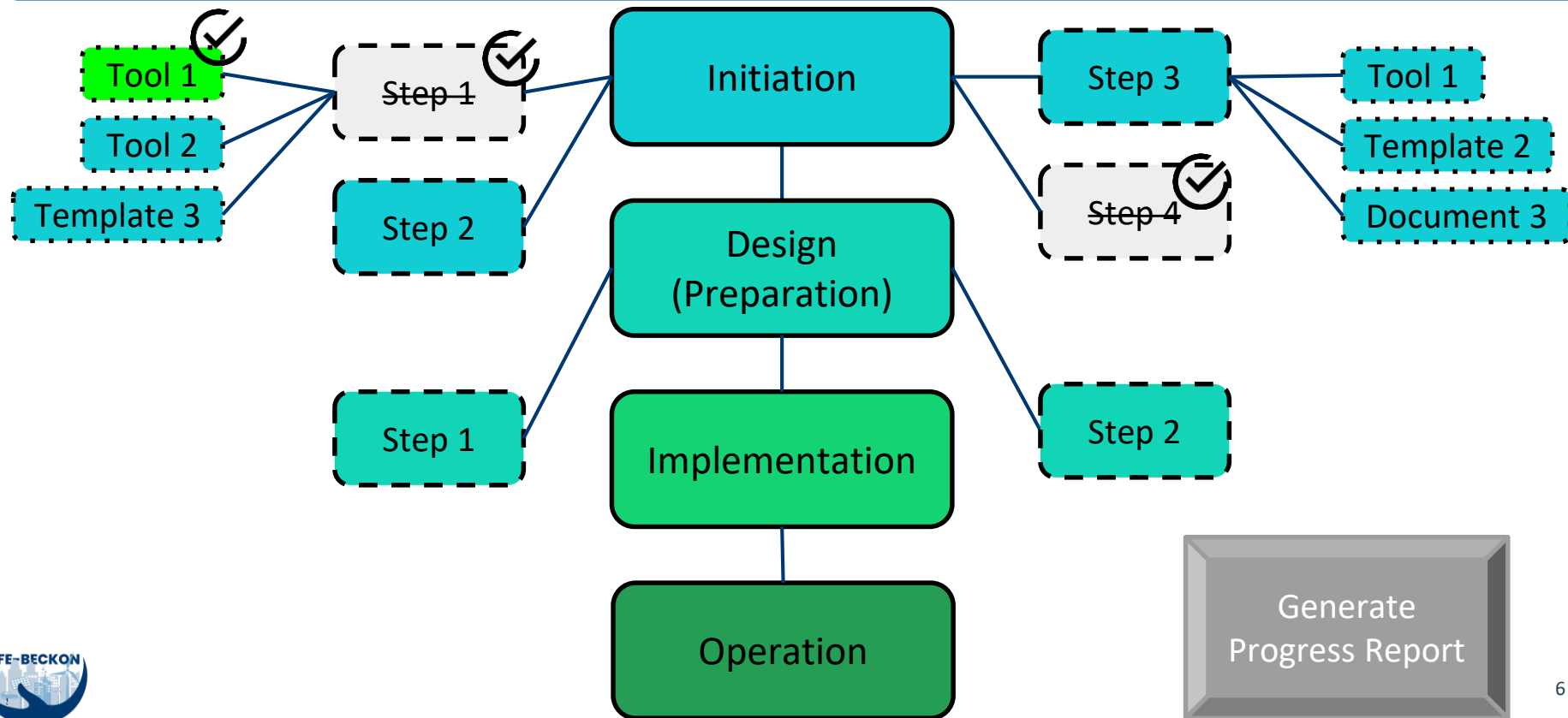
Quality Control, Monitoring & Evaluation Support



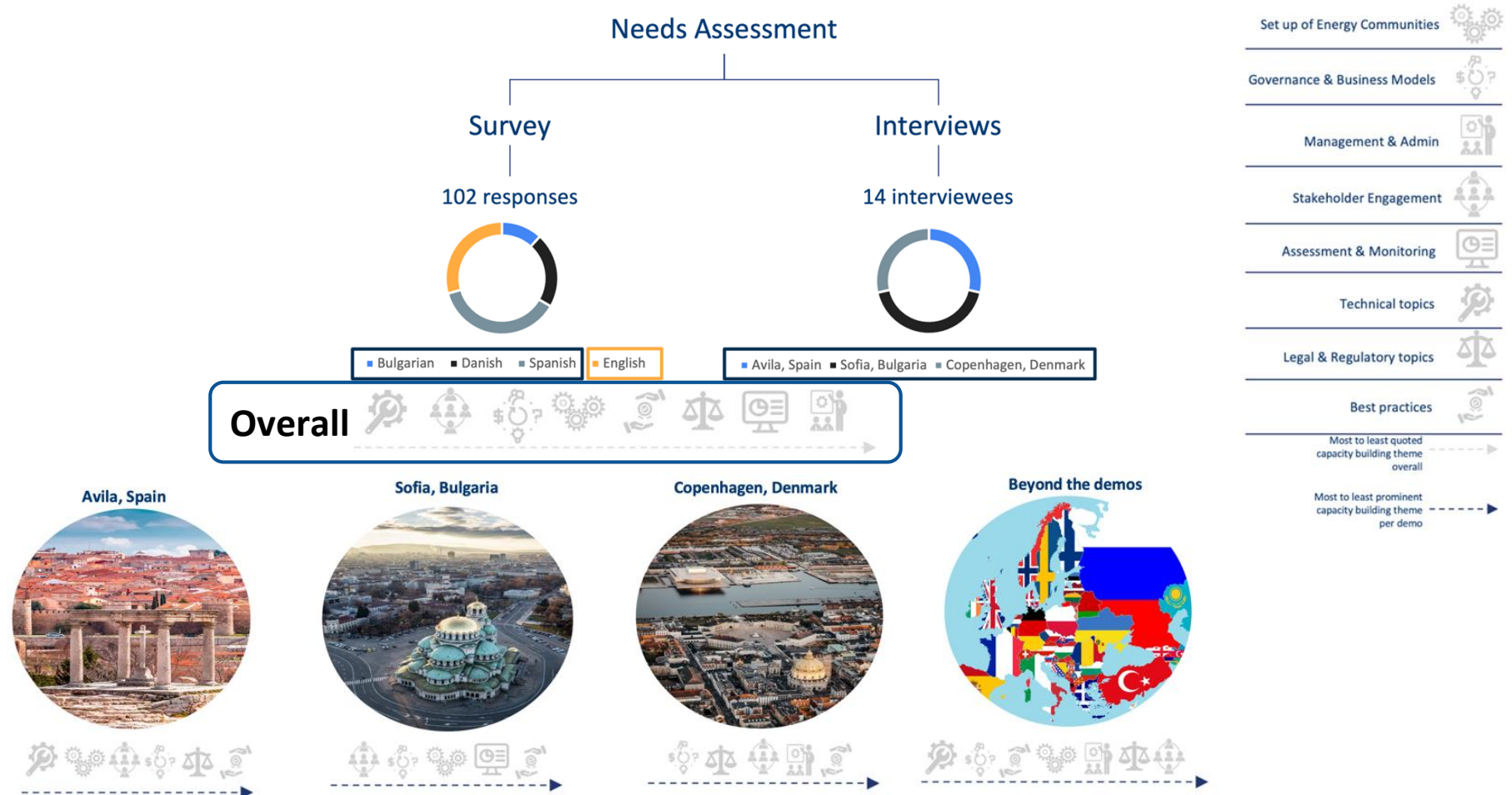
Technical Assistance Cookbook



From checklist into standardised process to progress report



Capacity Building & Training



Capacity Building & Training



Videos

- Definition and benefits of Energy Communities
- Governance models
- Public aids for Energy Communities
- Regulation highlights
- Technical issues in setting up Energy Communities



- Stakeholder engagement, citizens involvement and communication strategies
- Follow up, schedule and monitoring
- Case studies and best practices



Workshops in the 3 demos

- Scoping needs of the municipalities and the citizens
- Open innovation tools for co-creating citizen-led initiatives
- 10 sustainable energy projects



Open Debate

- Promotion and aggregation of small sustainable projects to combine them with wider Energy Communities produced by LIFE-BECKON and beyond via EU initiatives time



Interactive webinars

- Set up of Energy Communities
- Financing schemes, management, governance and business models
- Self-assessment and tools for monitoring their impact over time.



Scale up Challenge

- Promotion and replication of the Training Programme in other European countries

One-Stop-Shop

ENERGY COMMUNITIES REPOSITORY
#EUenergycommunities

REScoop.EU

THE
RURAL ENERGY
COMMUNITY
ADVISORY HUB



Structuring the tools & services from the cookbook into knowledge modules for different stages and aspects

- Forum
- E-learning platform
- Training modules

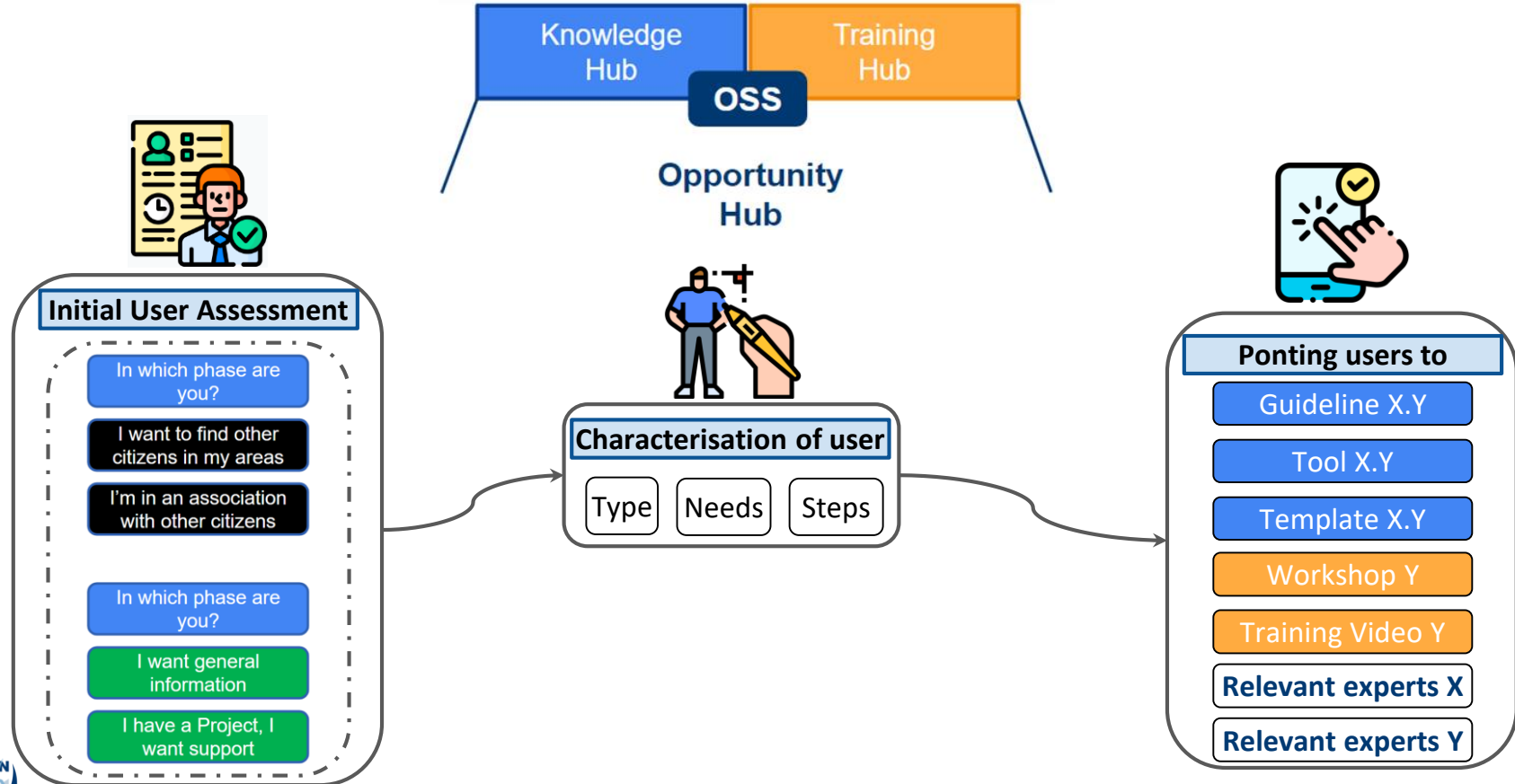


Marketplace with:

- Offer of service and expertise
- Seekers of support

Matchmaking to book meeting between demand and offer

OSS - Guiding the user



Demonstration Areas



Ávila, ES

- **Create a Technical Assistance Office** within the Energy Agency; launch 10 projects in 3 municipalities
- **Deliver Capacity Building** following the Train the Trainer approach; target to reach > 200 stakeholders
- Adapt and promote the **One-Stop-Shop** platform. Potential projects will be posted in the Opportunity hub; target to generate a pipeline of 25 potential projects



Copenhagen, DK

- **Empower the Climate Task Force** with the elements from WP1. 4 local neighborhoods will be demonstration areas for deep dive Energy Community projects.
- **Deliver Capacity Building** in Greater Copenhagen Metropolitan Area; target to reach > 150 stakeholders.
- Adapt and promote the **One-Stop-Shop** platform. Potential projects will be posted in the Opportunity hub; target to generate a pipeline of 25 potential projects



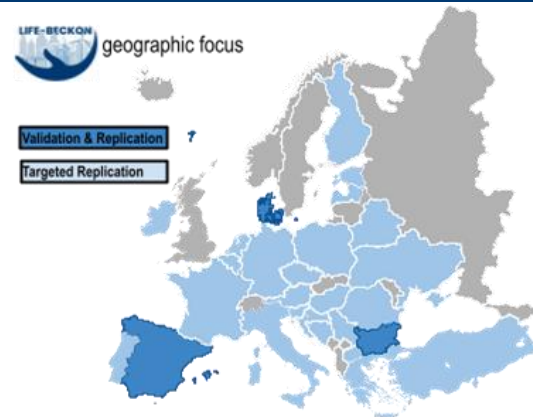
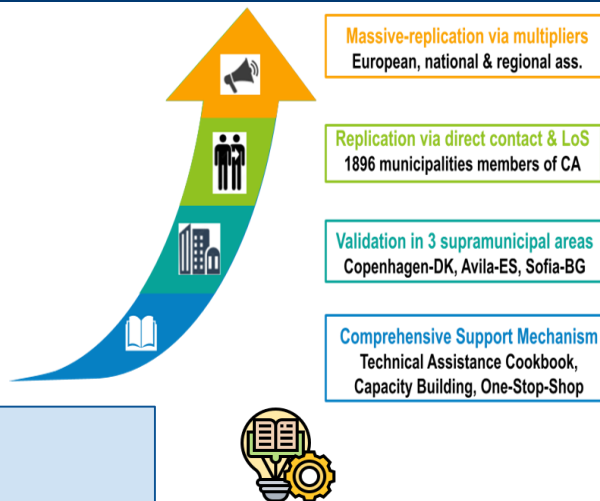
Sofia, BG

- **Create a Technical Assistance Office** building on similar initiatives such as the Energy Poverty Office. 1 pilot will be developed to serve as a model for replication. Calls to select 10 projects to deliver the TA.
- **Deliver Capacity Building** in Greater Sofia Area; target to reach > 150 stakeholders.
- Adapt and promote the **One-Stop-Shop** platform. Potential projects will be posted in the Opportunity hub; target to generate a pipeline of 25 potential projects

Replication

To whom:

- Municipalities
- Public authorities
- Energy agencies
- Local associations



Sharing of best practices and knowledge

Replication via:

- 30+ replicators municipalities supported through capacity building
- Dedicated **call for replicator** to select 15 projects to receive light technical assistance underpinned by the Technical Assistance cookbook and via the OSS platform
- Adaptation of the OSS to local contexts and needs

Stay in touch!

Follow us:



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- Sessions at the [Climate Alliance International Conference 2023](#)

Contact:

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ENERGY COMMUNITIES REPOSITORY

#EUenergycommunities

TWO INITIATIVES TO SUPPORT ENERGY COMMUNITIES:



How is the Repository supporting energy communities?



Policy analysis



Mapping & impact
assessment



Technical assistance

Best practices & resources



- ❑ Identify and share best practices
- ❑ Share existing resources and capacity-building materials
- ❑ Develop new guidance materials
- ❑ Policy analysis database



© MinkS (Pixabay)



Resources



EU projects & initiatives




Covenant of Mayors
for Climate & Energy
EUROPE

Covenant of Mayors
The Covenant of Mayors is the world's largest movement for local climate and energy actions. Below you will find more information on the initiative, its goals of development, the objectives, and the current covenants in force.
[Find out more](#)



Clean energy
for EU islands

Clean energy for EU islands secretariat
The Clean energy for EU islands secretariat, an initiative of the European Commission, is the central platform for the clean energy transition of the more than 2,000 inhabited European islands.
[Find out more](#)



Energy Poverty
Advisory Hub

Energy Poverty Advisory Hub
The Energy Poverty Advisory Hub aims to become the central platform of energy poverty expertise in Europe for local authorities and all stakeholders interested in taking action to combat energy poverty in Europe.
[Find out more](#)



Rural Energy Community
Advisory Hub

Rural Energy Community Advisory Hub
The Rural Energy Community Advisory Hub is an initiative by the European Commission that will help rural energy communities across Europe and provide technical assistance to such initiatives and projects. The Advisory Hub and the Repository will work closely together to provide the best possible support to energy communities.

One-Stop-Shops



HOUSING
EVOLUTIONS

Housing Evolutions
A unique online platform for consultation of experts and practitioners to share and learn from innovation challenges that are crucial to enhance and provide their housing objectives. Developed as part of the HNG2020 project.
Targets: Home renovations, energy efficiency
[Find out more](#)

France



Ile-de-France
Energies

Ile-de-France Energies
An integrated service provider offering technical design, implementation and operation, financing, and maintenance services to owners of residential apartment buildings.
Targets: Home renovations, energy efficiency
Funded by: IUT-CDM3
[Find out more](#)



HAUTS-DE-FRANCE
PASS RENOVATION

Hauts-de-France Pass Renovation
A national and brand instrument designed by the regional Public Service for Energy Efficiency that develops concrete tools on the ground with the aim of simplifying procedures for its inhabitants.
Targets: Home renovation, energy efficiency
Funded by: IUT-CDM3
[Find out more](#)

Toolbox

Toolbox (101)

Showing results 1 to 20

GENERAL GUIDELINES (17 AUGUST 2022) | CLEAN ENERGY FOR EU ISLANDS SECRETARIAT

From vision to action : how to tackle transition on EU islands?

This Handbook is an action-oriented guide to help islands navigate the transition toward clean energy. It follows a central methodology to cover ideas and projects in all stages of the clean energy transition. It also provides examples of European islands.

ROUTERART (24 JULY 2022) | INHERITED WILDERNESS PROJECT

Hedgerow biomass calculator

This calculator helps you get an understanding how feasible the cultivation of short rotation wood or the harvest of wood from your landscape will be for biomass projects.

ENERHAT (12 JULY 2022)

Energy Housing Assessment Tool (ENERHAT)

Energy Housing Assessment Tool - Providing neutral and easy-to-understand information on energy efficiency for non-experts to facilitate decisions, integration of data from different administrations that helps decision-making.



Technical assistance



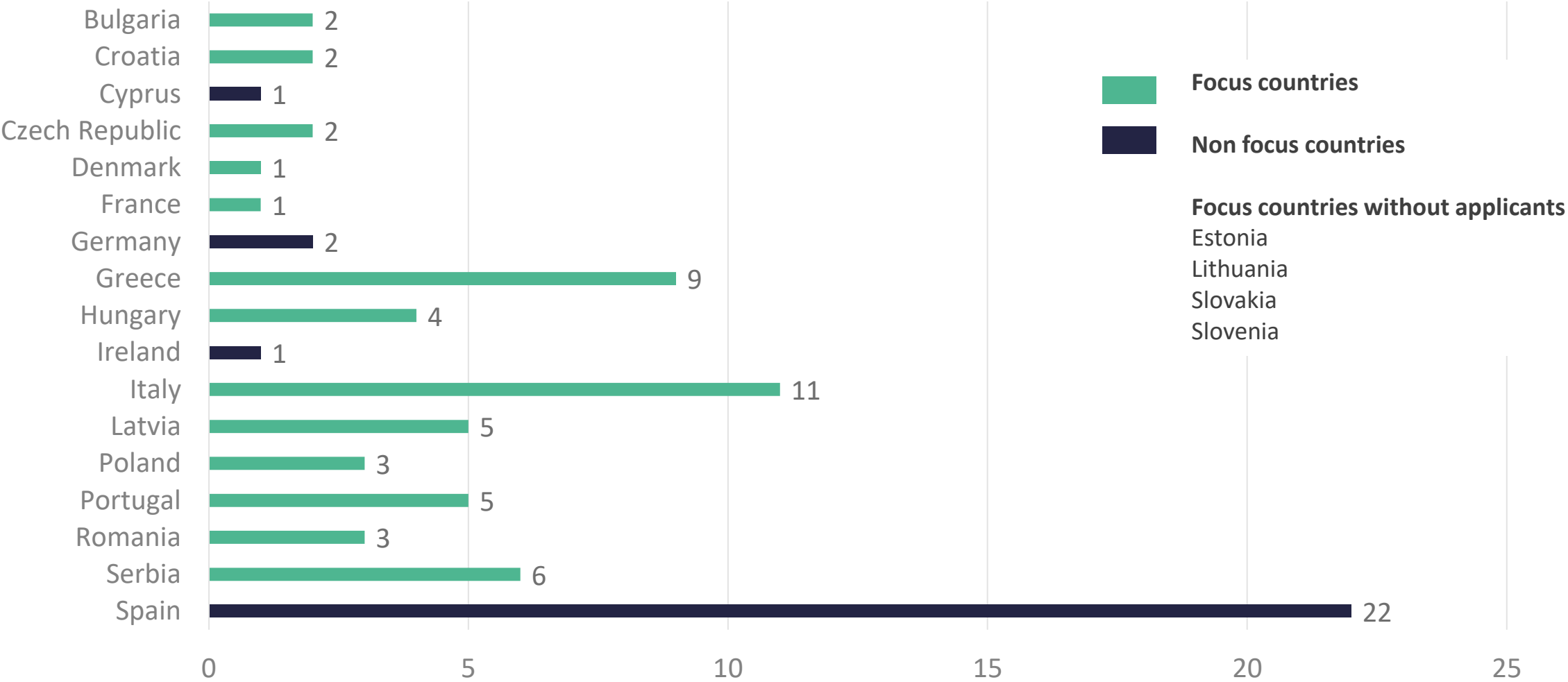
- 25 communities are receiving **direct technical support**
- 45 communities are receiving support via **online twinning & peer learning**
- 80 communities will receive support via **national capacity building workshops**
- 6 **EU-wide capacity building webinars**



Photo: Carlos Muza (unsplash)



TA Applications - Geographic distribution



Municipal-led TA applicants



- ❑ Czech Republic: PV and heat pump project
- ❑ Greece: hydro project
- ❑ Portugal: Climate Action Expertise Centre leading to creating of Energy Community
- ❑ Germany: help selecting sites for solar
- ❑ Cyprus: first energy community



Photo: Carlos Muza (unsplash)

TOP 5 priorities – TA applicants

- ❑ Set up of legal structure and related administration
- ❑ Governance of the energy community and related administration
- ❑ Developing a community investment campaign
- ❑ Developing an initial financing concept, a business plan
- ❑ Finding inspiring examples of local / national best

practices



Repository Webinars

June: Expanding city-to-citizen collaboration in energy communities

July: Taking your first steps as an energy community

Sept: Legislative frameworks for energy communities in the EU

Sept/Oct: How to set up a community energy one-stop-shop

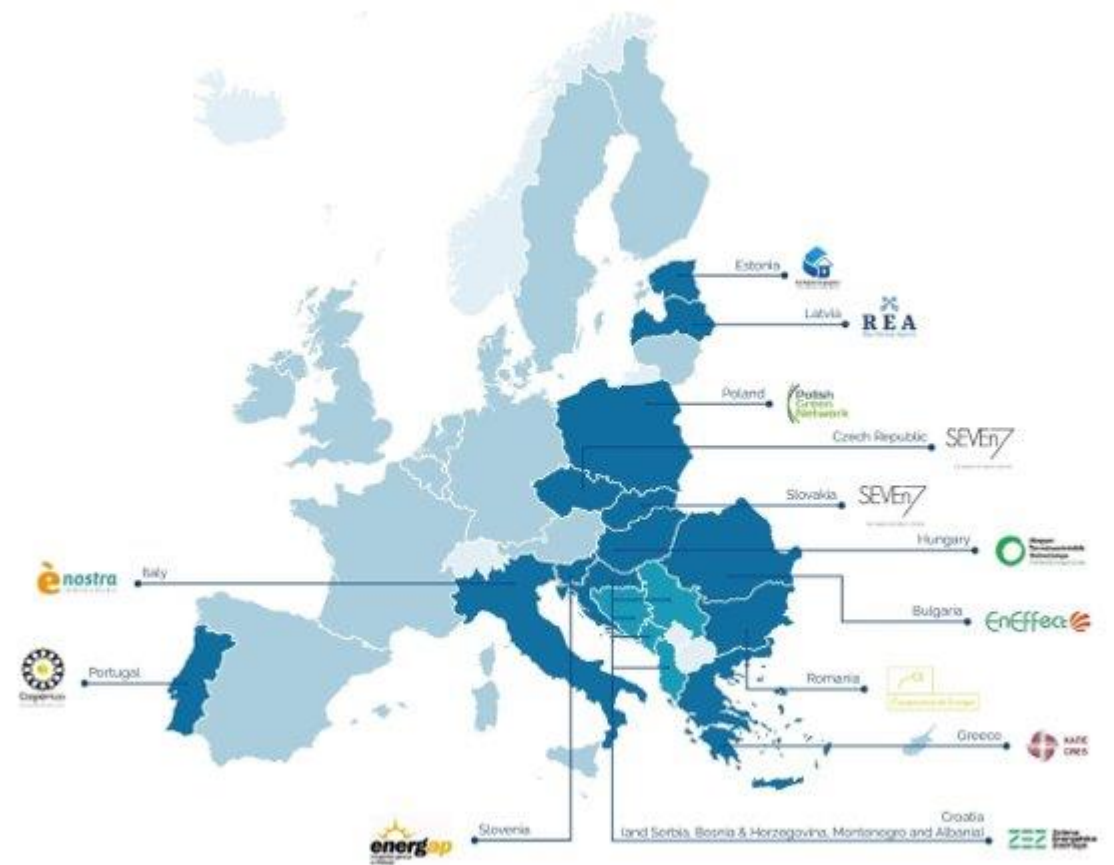
Oct: Build a business case for your energy community

Nov: How to organise a community investment campaign



Capacity Building Workshops

- Bulgaria
- Croatia
- Czech Republic
- Greece
- Hungary
- Italy
- Latvia
- Lithuania
- Poland
- Portugal
- Romania
- Serbia
- Slovenia
- Slovakia



Useful resources for municipalities

Toolbox:

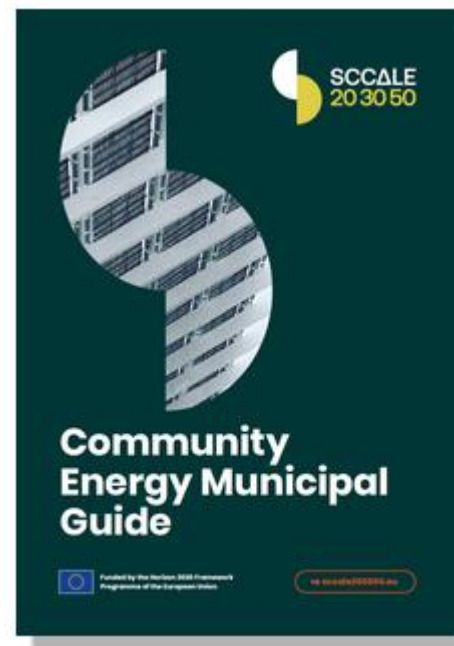
[SCCALE 20-30-50 municipal guide](#)

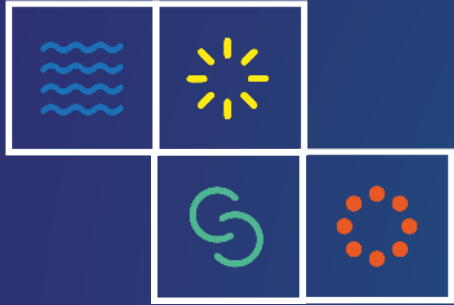
[Municipal procurement guide](#)

LIFE LOOP tools

Webinar: June City and Citizen collaboration

Mailing list: info@ec-repository.eu





ENERGY COMMUNITIES REPOSITORY

Contact us:
info@ec-repository.eu

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Energy community framework, challenges &
opportunities in SOFIA, BULGARIA

Nadya Nikolova-Deme – SEA SOFENA



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Energy Community Framework

Bulgaria's national energy policy

was based on large and expensive energy projects, using nuclear and coal energy, while downplaying the potential of sustainable and competitive RES.

While business and industry directly invest in photovoltaic and other RE installations, projects owned by groups of citizens or energy communities are rare in Bulgaria.

There is a lack of a clear legal definition and specific legal provisions regarding prosumers and energy communities both at national and municipal levels in Bulgaria.



Energy Community Framework

Difficulties to the Energy Communities Development in Bulgaria:

- Regulatory obstacles;
- Administrative and bureaucratic obstacles;
- Legal problems - form of association and organization;
- Tax policy;
- Low awareness of households and citizens;
- Access to finance;
- Historical encumbrance and worldview.



Energy Community Framework

Present state:

Steps to shorten the administrative procedures took place in 2022:

- Amendments were adopted in the **Act on RES** easing end customers in building PV installations for electric energy production from RE on building roofs and facades when used for own consumption.
- Further amendments to the **Territorial Planning Act** were adopted for optimizing the terms for spatial planning and investment on RES design and construction for own consumption.
- There were also changes in the **Act on Excise Duties and Tax Warehouses**;

In 2023:

- New changes in the **Act on RES** approved by the Council of Ministers:
 - REC definition in line with the EU one;
 - Easing the joining procedures for producers of electrical energy from RES with up to 1 MW installed capacity.



Financing for RES Installations

Under the National Recovery and Resilience Plan the following procedures are opened at present:

➡ "Construction of new RES for own consumption (up to 1 MW) in combination with local facilities for energy storage in SMEs" of 200 million BGN – 50% grant, max 1 million BGN per project

➡ "Support for renewable energy for the households" of 140 million BGN:

- Purchase of solar installations for domestic hot water supply - 100% grant up to 1960 BGN or
- Purchase of photovoltaic systems for the home (up to 10 kWp), including electrical energy storage systems – 70 % grant, max 15000 BGN.



Good Practice Example – “Solar Cities”

Under the “Solar Cities project “ aiming at unlocking the Solar Potential of Burgas and Sofia city financed by the European Climate Initiative (EUKI) a digital platform was developed giving information:

- how many PVs can be installed and on which building,
- how much energy they can potentially generate,
- how high is the required investment, and
- how long will it take for the return of the investment.

<https://solarcities.bg/>

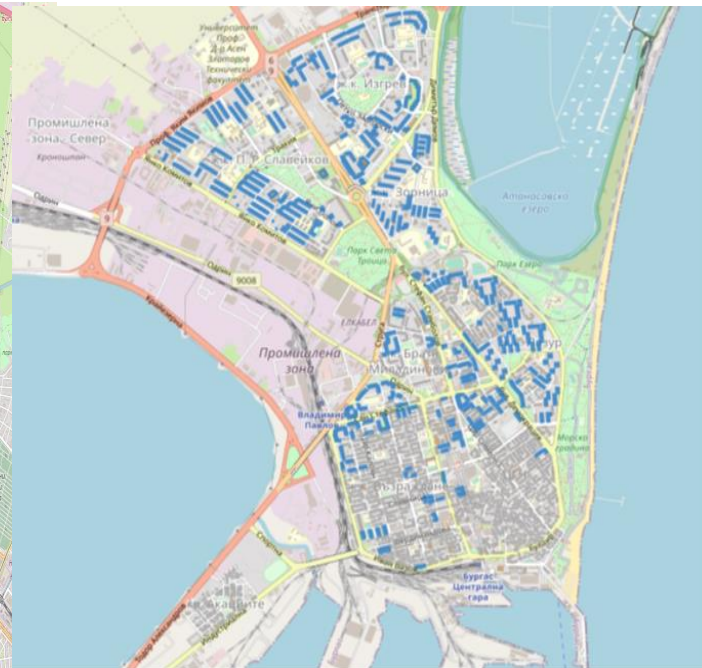
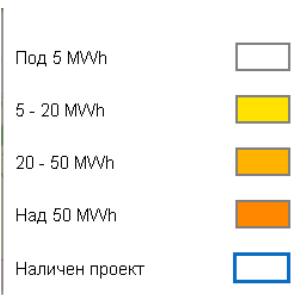
Good Practice Example – “Solar Cities”



Covenant of Mayors
for Climate & Energy
EUROPE

For this purpose, the territory of the cities was photographed, detailed analyzes of the roof spaces of the buildings was prepared using specialized software to identify the optimal number of PV panels that can be placed.

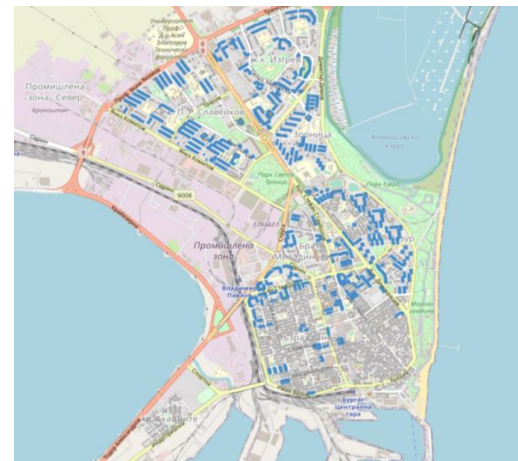
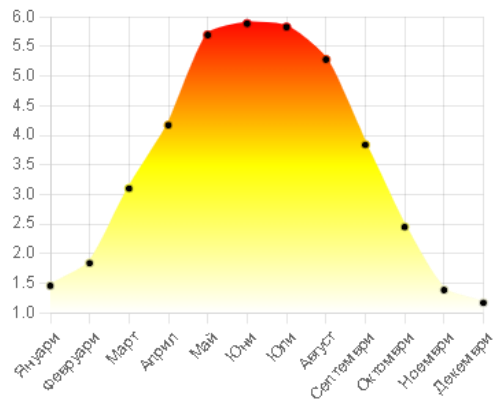
Annual production of
electricity



Good Practice Example – “Solar Cities”

For the roofs circled in blue on the map in the platform, individual analyzes have been prepared according to their specifics, and the results are available in the reports attached. A ready made project is available for download.

Annual production of
electricity 42 MWh



<https://burgas.solarcities.bg/>

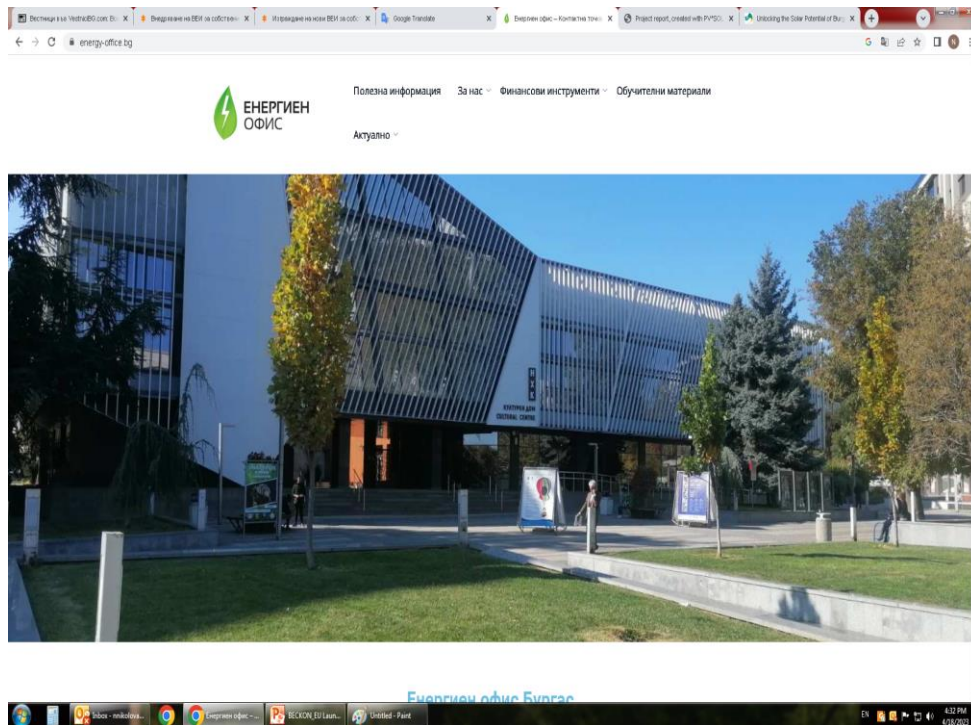
Good Practice Example – “Solar Cities”

Dedicated units in Burgas and Sofia town administrations to provide administrative support to potential investors are established.

Energy Office Burgas

A series of events and trainings targets representatives of local and state administrations, of SMEs, of homeowner associations, public building managers, and residents of multi-family apartment buildings.

<https://energy-office.bg/>



SOFENA in LIFE-BECKON Project

Demonstration at Sofia-BG area :

- Create Technical Assistance Office,
- Adapt Cook Book to Sofia needs,
- Deliver Capacity building to 150+ stakeholders,
- Engage and foster match making on one-stop platform

Outcomes:

Generate pipeline of 10+ projects,
support creation of Solar garden, etc.



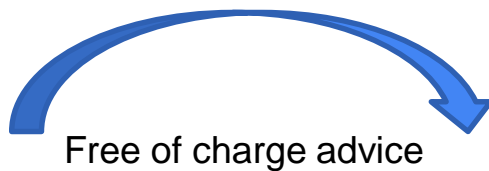
Sofia Technical Assistance Office

TAO Sofia will be build on and further developed using the Sofia Energy Poverty Office at the premises of Sofia Energy Agency SOFENA created under POWERPOOR project.



Business Model of the Sofia TAO - Facilitation model

TAO - Sofia will provide support to potential Energy Communities across the municipalities of the Greater Sofia Metropolitan Area.



TAO



Interested parties

Чаталджа 54



- ❑ Proactive engagement of participants in EC through targeted communication and marketing tools to reach out to the right groups
- ❑ Offer capacity building for municipalities and other interested stakeholders.
- ❑ Provide advice on the legal form of registration and statute of the energy community.
- ❑ Propose tailor-made plans and guidance to achieve the goal
- ❑ Info on affordable financing means, ESCO, crowdfunding, etc.
- ❑ Matchmaking with technology providers and investors

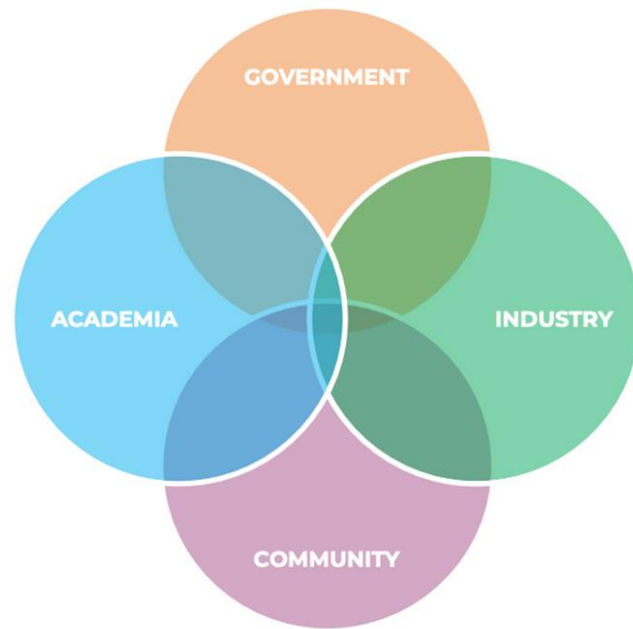
TAO Sofia Resources

- One Stop Shop platform
- List of technology providers and investors
- Data base of relevant documents and templates
- List of trainers and training materials



- **‘Train-the-Trainers’** approach will be used. Trainings and dissemination events will be organized;
- **Capacity Building Programme** (based on Open Innovation, Living Labs, citizen-centred, co-creation and co-design methodologies) conducted.

They all will be targeted to public authorities at local, regional and national levels, policymakers, energy agencies, associations, as well as consulting professionals or energy companies, etc.



SOFENA will follow 5-step validation methodology:

- Selection of 25 potential projects on the territory of Bulgaria through online call and application procedure
- Identification of 10 potential Energy Communities to undergo the trial and validation phase that will receive free consultancy to prepare EC project.
- One potential project will be fully supported to implement an energy community - Solar garden - as a demo-site.



Sofia Demo and Validation

The results of LIFE-Beckon project will help:

- to replicate the model of the TAO in the cities and municipalities of Bulgaria and open new ones.
- to build the capacity of public authorities to support EC initiatives in making informed decisions fitting best with the local characteristics, thus fostering the uptake of ECs.
- SOFENA as a Covenant of Mayors supporter will encourage public authorities and citizen associations at local, municipal and regional level to replicate the developed solutions, creating support structures that can guide communities in setting up their initiatives in the field of sustainable energy.



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CLIMATE
ALLIANCE



DIPUTACIÓN
DE ÁVILA

European
Network of
Living Labs



Tampere University
of Applied Sciences

WEglobal



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Energy community framework, challenges &
opportunities in Copenhagen – Denmark

Erik Hagelskjær, City of Copenhagen



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2025 Climate Plan

The climate strategy in Copenhagen

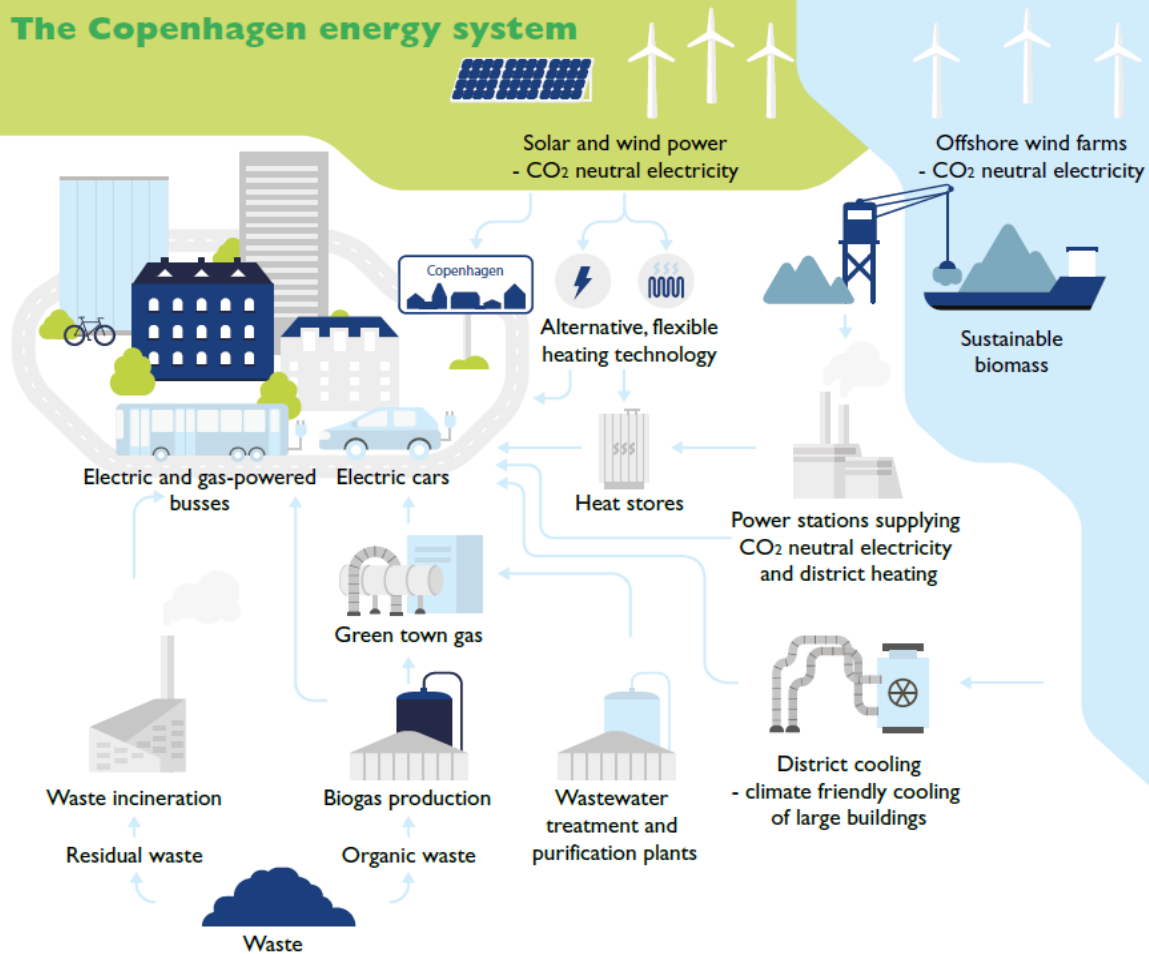
The CPH2025 climate plan adopted in 2012 targets carbon neutrality through four pillars:

- Energy consumption
- Energy production
- Mobility
- City administration initiatives



Transformation of the energy system

The Copenhagen energy system



- Establish wind turbines and PV
- Work with flexible energy technologies
- Energy production focus
- Emerging consumption focus

Utility companies and solidarity

- Electricity distribution companies are in principle user-owned cooperatives
- They function as corporate organizations, struggling to protect market shares
- Should we enable the most well performing elements of the collective to withdraw and organize themselves in local energy communities as islands with favorable conditions?

Transitions in energy and taxes

- Electricity used to be oil based and was taxed up through the 70'ies and 80'ies to decrease oil dependence
- Transition to coal based regime in 90'ies did not change taxation
- Transition to RE based electricity does not change taxation
- Electricity is still an important source of tax revenue

Regulatory challenges

- Define place of consumption by the electricity customer's proximity and not delimited by buildings (and/or cadastral divisions),
- Allow housing organizations (public, cooperative and owners' associations) to be electricity customers and thus have access to a meter number (tax issue)
- Establish electricity customers' right to establish internal electricity connections (including between their own production and consumption facilities)
- Specify that tariff models must be established corresponding to the different types of electricity customers and for the sharing of electricity via the collective distribution network within local energy communities with, for example, 'local collective tariffing'.

Energy communities in Copenhagen

- Provide opportunity for citizens to participate in the green transition
- Promote collective action to support sustainability 'handlefællesskaber'
- Support properties to become active prosumers in a green energy system
- The city is not a collection of isolated islands
- Green transition of properties integrated with building renovation and urban renewal
- Acceleration of implementation of PV roof top solutions



PV roadmap

- 3% of electricity in CPH is PV by 2025
- Grants for feasibility consultancy

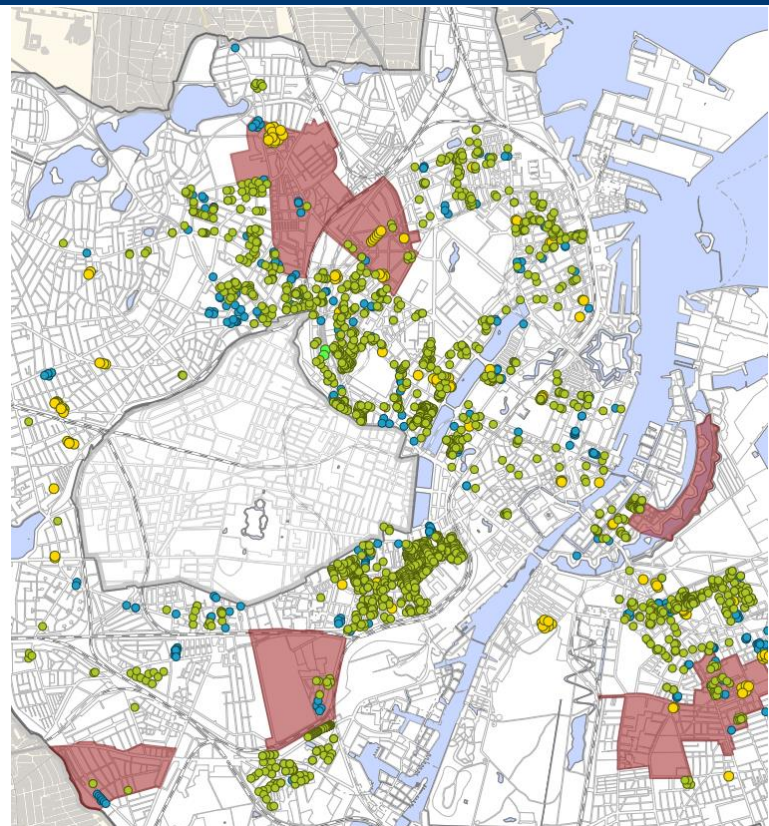


Mapping PV potential

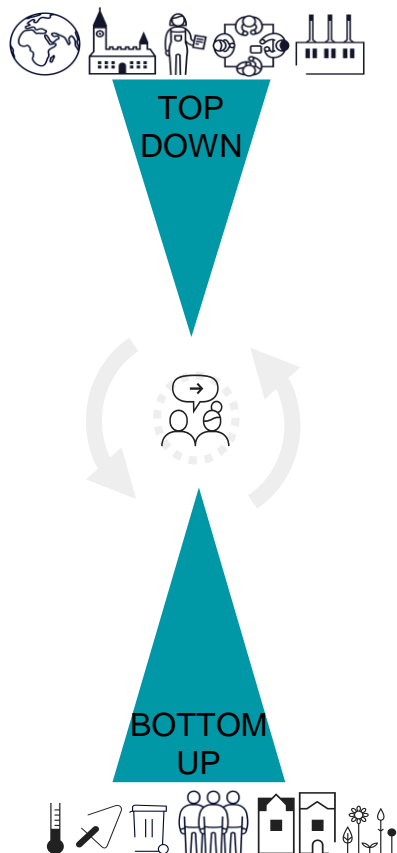
	Samlet tagareal			Tag m. tagpap og lille hældning	
	MWh	Antal bygn.	m2 tagareal	MWh	m2
<i>Aktie- anpart eller andet</i>	43.943	323	908.492	15.228	319.067
<i>Alment boligselskab</i>	8.210	107	176.144	3.469	59.216
<i>Andet, bl.a. andels- og ejerboliger</i>	26.449	251	639.892	10.231	244.348
<i>Forening, legat eller selvejende</i>	6.558	59	141.180	2.360	51.258
<i>Københavns Kommune</i>	11.202	102	237.530	3.797	72.047
<i>Privat</i>	4.389	59	106.310	302	6.489
<i>Privatpersoner og interessentselskaber</i>	4.348	32	84.811	1.904	38.717
<i>I alt</i>	105.099	933	2.294.359	37.291	791.142

Building renewal with PV

Building renovation grants
PV demonstration projects
Batteries
Charging systems
Sector coupling



A place-based approach



City
governance

City carbon neutrality commitment

Cross-sectoral cooperation

Tools

Facilitate & engage

Screening data

Expert knowledge

Public grants

Place-based local climate facilitators

Potentials

Energy efficiency

Building refurbishment

Solar power

Energy flexibility

Climate/energy communities

Recycling

Biodiversity and greening

Other

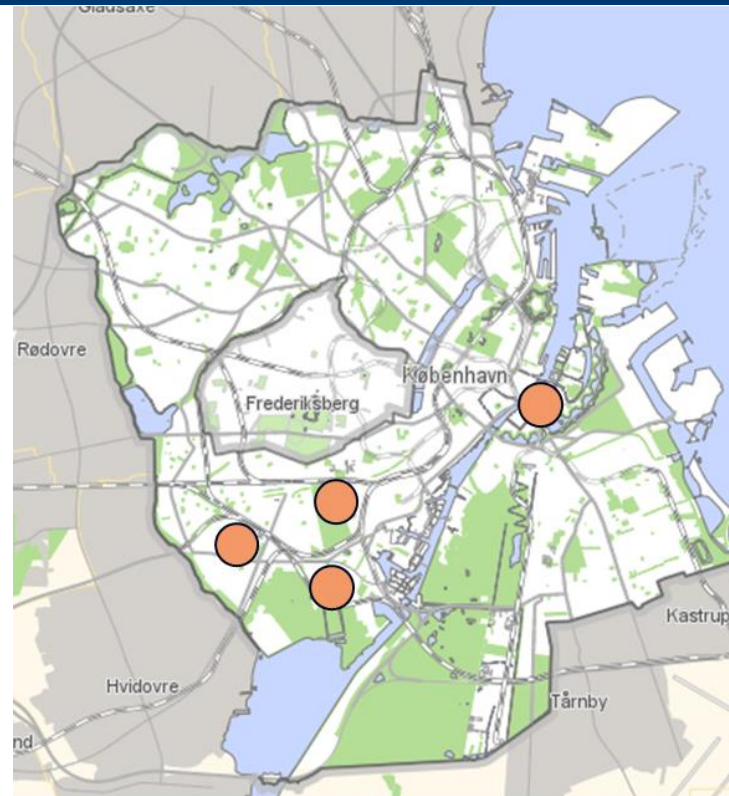
Local
governance

Citizen action plans for energy communities

Citizen and local actors' potentials and interests

Emerging energy communities

- Dialogue and support
- Clarification of legislation
- Sharing experiences



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Energy community framework, challenges &
opportunities in Ávila, Spain

Mauro, Ostinelli - R2M



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Navigating Spain's Legal and Regulatory Framework

Legal and regulatory uncertainty

- Absence of specific legal figure of the Energy Community
- Lack of a register of energy communities



Lack of standardization

- Difference between collective self-consumption and energy community



Complex administrative procedures

- Administrative obstacles in photovoltaic installations



Inadequate support from competent authorities

- Lack of technical assistance



Limited access to financing

- Challenges in accessing financing from traditional sources



Deploying Energy Communities in Ávila, Spain

Province of Ávila



160,000



248



17.5 % (Spain)



36.3%



5.9%



90%



Deploying Energy Communities in Ávila, Spain

Promote renewable energy &
increase energy efficiency

NEED



Use Cases /
Business Models

Mediana de Voltoya



El Barco de Ávila



Sotillo de la Adrada



Power to the People: LIFE-BECKON's opportunity



APEA

Agencia Provincial de la Energía de Ávila

Transition Office



- ★ Legal
 - ★ Financial
 - ★ Technical
- Information
for EC



DIPUTACIÓN
DE **ÁVILA**

Conferences



- ★ Raise awareness
- ★ Advice
- ★ Promote in 3 levels

Power to the People: LIFE-BECKON's opportunity

13th of February

Presentation LIFE BECKON

Diffusion of ECs as
opportunities for municipalities



> 80
municipalities

THANK YOU!

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LIFE-BECKON EU Launch Event

Supporting mechanisms for local authorities
to deploy energy communities

26 April 2023



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Housekeeping

 Please **rename yourself** with your name and organization



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Do you have questions for the speakers? Please use the **chat box**



Please note that this webinar is being **recorded** and made available on the **CoM library**



We will give you the floor during the **Q&A session**

Agenda

LIFE-BECKON OVERVIEW AND PRESENTATION

- 11:00 **Introduction** | Covenant of Mayors – Europe Office, Andrea Carosi
LIFE-BECKON supporting mechanism to deploy energy communities | R2M Solution, Federico Noris

EU POLICY UPDATES AND SUPPORT AVAILABLE FOR LOCAL AUTHORITIES

- 11:15 **Framework for the Energy Communities in EU legislation** | DG ENER, Achille Hannoset
Available support for local authorities | Energy Communities Repository, Anna Francis

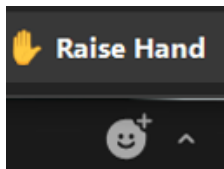
NATIONAL FRAMEWORKS - CHALLENGES & OPPORTUNITIES AT LOCAL LEVEL

- 11:35 **Bulgaria** | Sofia Energy Agency, Nadya Nikolova
Denmark | City of Copenhagen, Erik Hagelskjær Lauridsen
Spain | Diputación de Ávila / R2M Solution, Mauro Ostinelli

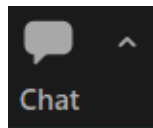
DISCUSSION

- 12:05 **Q&A session**
12:25 **Wrap up and conclusion** | Covenant of Mayors – Europe Office, Andrea Carosi

Any questions?



Raise your hands to ask for the floor



Or write your questions in the chat box





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Supporting mechanisms for local authorities to
deploy energy communities

**Many thanks
for your kind attention!**

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