



RENEWABLE ENERGY COMMUNITIES

MESA's activities and the opportunities to participate in the pilot projects



MOLDOVA ENERGY SECURITY ACTIVITY
April 23, 2024

MOLDOVA ENERGY SECURITY ACTIVITY

Who we are?



Objective 1: IMPROVED PHYSICAL AND MARKET INTEGRATION OF MOLDOVA'S ENERGY SYSTEM WITH EUROPE

De ce ?

- Increases access to regional energy resources at competitive prices
- Diversifies supply and development of local generation
- Improves governance and operational practices in the sector
- Promotes energy security

MESA Primary Activities

- Advancing harmonization of legal and regulatory framework with EU requirements
- Supporting the implementation of the wholesale electricity market and establishment of the Market Operator
- Promoting grid flexibility to ensure stable and reliable operations – stepping-stone to commercial power trade beyond Ukraine and integrating RE
- Certifying power generation units for Moldelectrica – part of regional integration requirements
- Assessing energy supply options and supporting the government with security of gas supply and crisis management
- Strengthening ANRE's independence and regulatory authority

Objective 2: INCREASED RENEWABLE ENERGY INTEGRATION AND CLIMATE CHANGE RESILIENCE

De ce ?

- Reduces Moldova's dependence on imports and exposure to external political and market risks
- Diversifies energy supply sources
- Promotes clean energy and reduces emissions

Notes: Should be undertaken in conjunction with strategic planning and infrastructure investment to promote energy system development and operational stability

activities.

- Developing the Energy Strategy that will codify policy and unified vision for Moldova's energy future
- Coordinating energy and climate planning through development of the National Energy and Climate Plan
- Improving ministerial planning capacity enabling evidence-based policy making and coordination of sectoral plans
- Updating the Ten-Year Network Development Plan—the basis for enabling development of a national competitive electricity market
- Improving capacity of ANRE and Moldectrica

Objective 3: INCREASED INVESTMENT IN DOMESTIC POWER GENERATION AND ENERGY EFFICIENCY

De ce ?

- Promotes diversification and efficient domestic generation
- Reduces energy losses and promotes more efficient generation and consumption leading to lower costs
- Increases access to affordable financing
- Climate change
- Catalyzes private sector engagement

activities.

- Improving the legal and regulatory environment to facilitate investment
- Catalyzing the private sector to crowd in investment and creating a private sector platform (MPSP) to increase private sector engagement (pilot)
- Building capacity of the Energy Efficiency Agency to promote EE in buildings
- Building self-revolving financing instrument for rehabilitation of public buildings (Moldova Super ESCO program – MESCO)
- Implementing demonstration projects in EE & RE (MESCO) to promote technologies and scalability – both on generation and consumption side

MESA PARTNERS

- Ministry of Mines and Energy
- Ministry of Infrastructure and Regional Development
- Ministry of Environment
- ANRE (Energy Regulator)
- Moldelectrica (TSO) and DSOs
- Market operator
- Gas system operators (TSOs)
- Eficiență energetică
- CHPs (Termoelectrica and CET Nord)
- Academy (TUM, SUM)

“Moldova's delegation expressed their appreciation for the support provided by the USAID Moldova Energy Security Activity (MESA), including technical assistance in helping Moldova satisfy its commitments towards adopting EU energy policies. Both countries acknowledged the importance of continuing efforts to invest in energy infrastructure to diversify Moldova's energy supplies in the long term and strengthen its resilience to threats to its energy security.”

- Excerpt Statement on the U.S.-Moldova from Strategic Dialogue

MOLDOVA ENERGY SECURITY ACTIVITY

MESA activities related to the Energy Communities



OVERVIEW OF CITIZEN AND RENEWABLE ENERGY COMMUNITIES (Completed in 2023)



Recap of the EU framework development



Identifying citizen and renewable energy communities



Overview of policies supporting establishment of energy communities



Case studies



Next Steps

DEVELOPMENT OF LEGAL FRAMEWORK

- MESA supports the Ministry of Energy in assessing existing barriers and the development potential of renewable energy communities. According to the amendments to Law no. 10/2016 approved in November 2023 the assessment must contain
 - Description of the current situation
 - Identifying unjustified barriers and limitations
 - Ways of integrating Local Action Groups
 - Proposals to improve the legal framework



LEGAL ASSESSMENT AND RECOMMENDATIONS FOR LEGAL AND REGULATORY FRAMEWORK



In the exercise of assessing the barriers and limitations that hinder the development of energy communities, the following elements of the legislative framework were analyzed

MOLDOVA ENERGY SECURITY ACTIVITY

RENEWABLE ENERGY COMMUNITIES PILOT PROJECT



RENEWABLE ENERGY COMMUNITIES PILOT PROJECT

THE SCOPE OF THE PILOT

To demonstrate the benefits offered by the new legal framework

Testing collective power generation/sharing/use models

Creating examples of the energy communities that could be taken over, multiplied, developed

Raising awareness of the role communities can play in the energy transition

THE BENEFITS WE ARE TRYING TO QUANTIFY



Cutting the
energy
consumption



Addressing
energy poverty



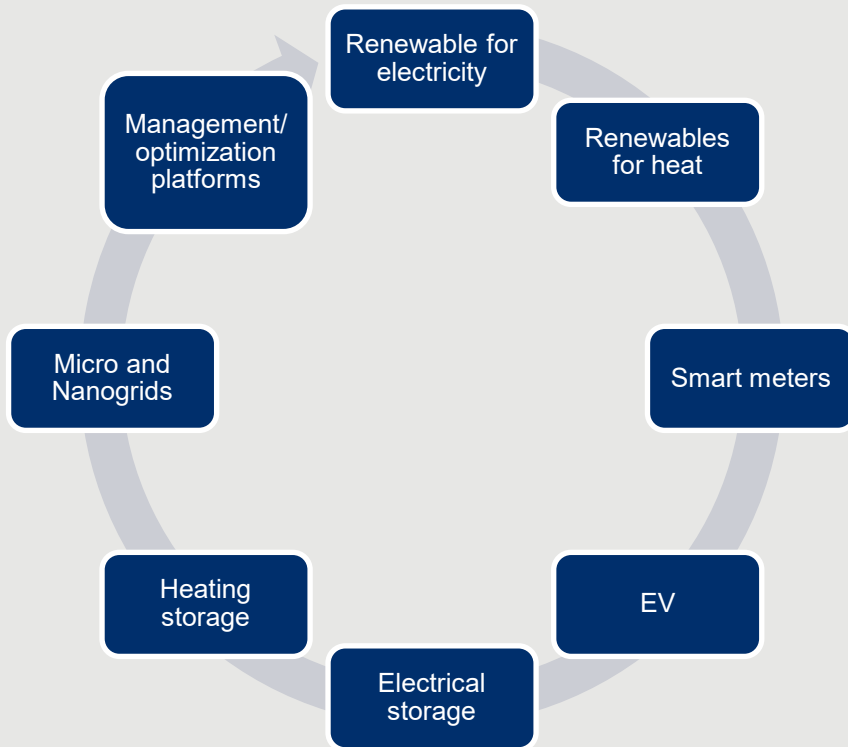
Building Equity,
Inclusion,
Legitimacy and
Transparency



Fostering
Economic
Resilience and
adaptation



CONSIDERED TECHNOLOGIES



- By combining renewable energy sources with smart grid technologies we want to create energy communities that can promote sustainability, be self-sufficiency, and that can establish a direct relationship between energy producers and consumers.

PILOT PROJECT – Candidates we consider

Have a collective organizational form, not for profit

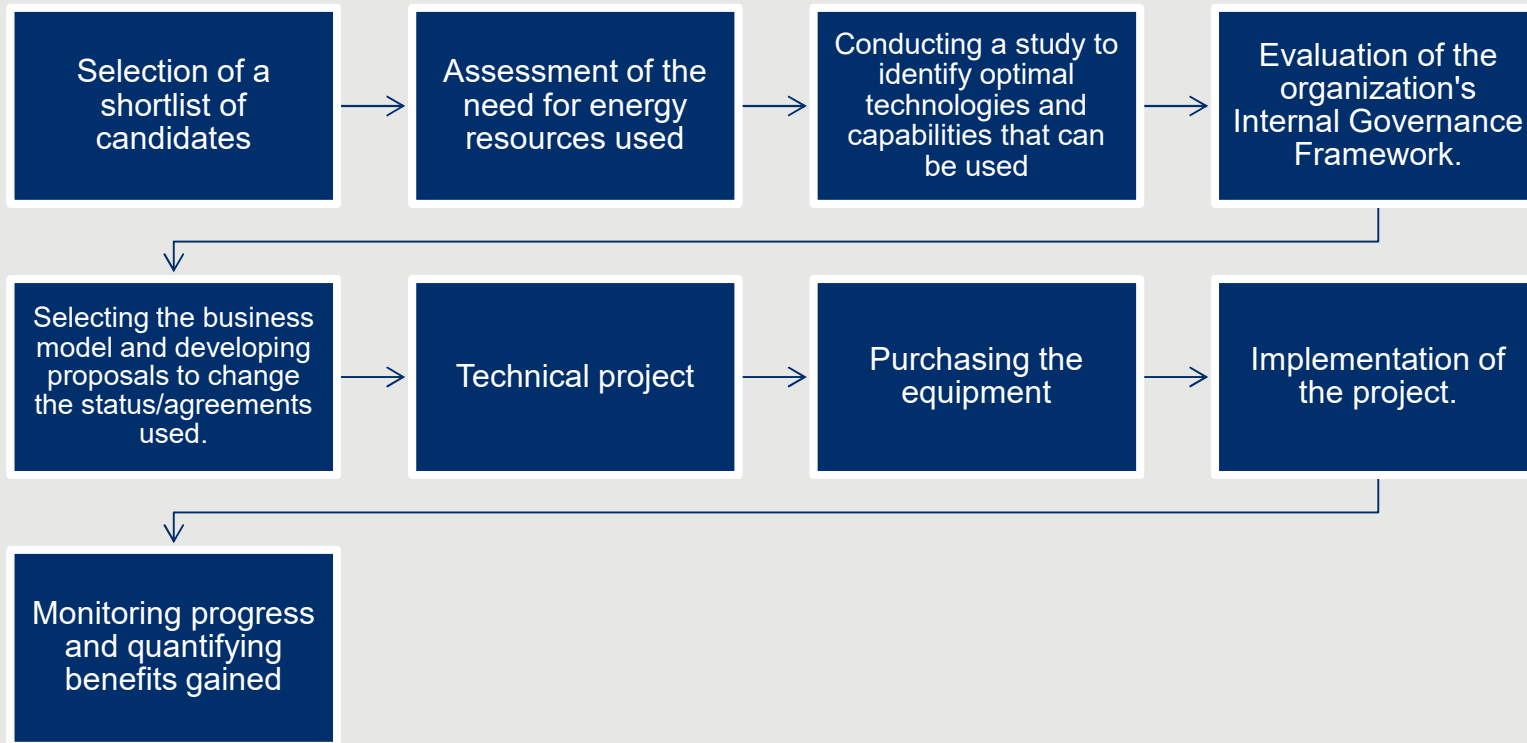
Have a detailed level of technical data and historical consumption of energy resources

Show openness to new ideas and are ready to participate actively in the project

They have a stable financial status

Have the opportunity to contribute financially to the implementation of the project, if necessary

PROPOSED STEPS FOR THE IMPLEMENTATION OF THE PILOT PROJECT



Thank you very much!

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