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## **Phase I of the Regional Strategic Energy Planning Project:**

# **Opportunities and Benefits Arising from Enhanced Energy Efficiency and Renewables**

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# Overall Objectives

## **USAID Objectives in the Region:**

- Economic growth -- Improving service to customers: reliability, affordability, transparency
- Energy Security: Reducing vulnerabilities and potential for disruptions; diversify energy supplies; reduce energy import dependence.
- Global Climate Change: Examine GHG mitigation options.

## **Project Objectives:**

- Enhance national capacity to perform integrated energy system planning
- Examine the benefits and costs of Energy Efficiency and Renewable Energy policies
- Provide analytical inputs to inform policy formulation



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# Project Overview

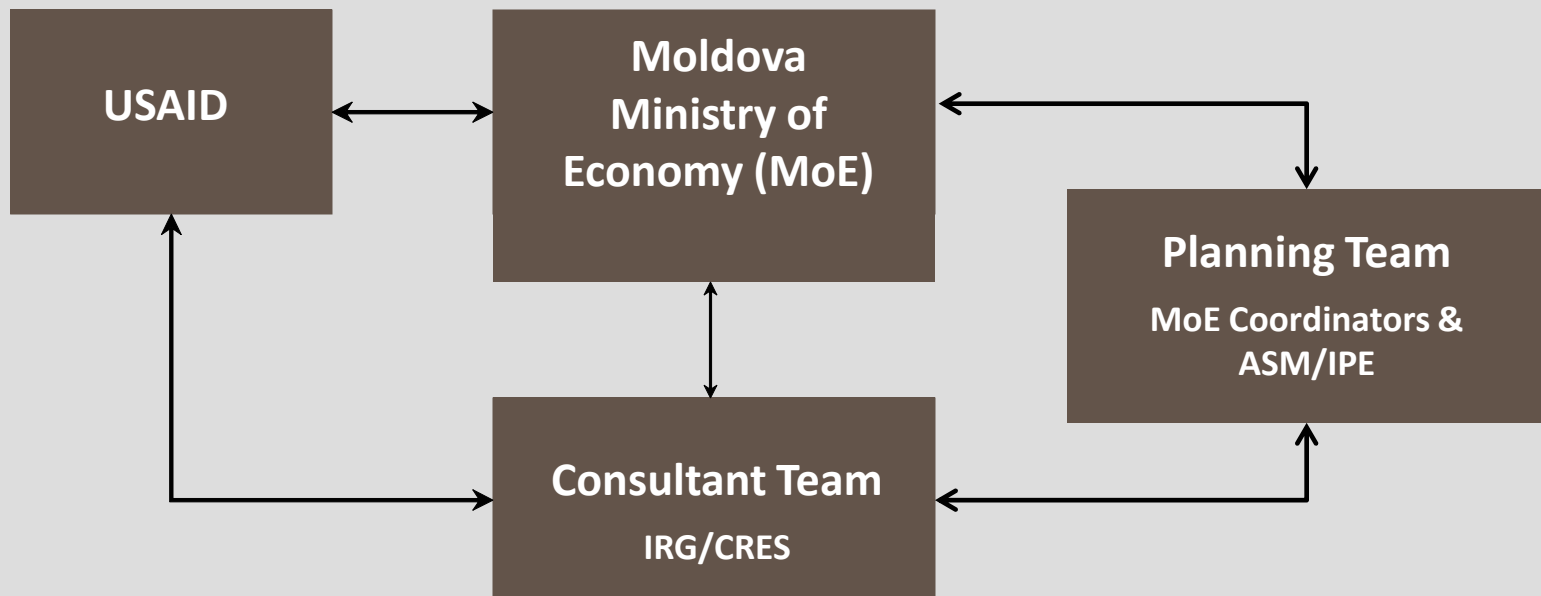
- Purpose: Build capacity within the Energy Community to support strategic energy planning and inform the policy formulation process by establishing/advancing national Planning Teams.
- Implementation: In collaboration with CRES, assist countries in developing integrated energy system models using IEA-ETSAP MARKAL/TIMES, review data and assumptions, and perform policy-oriented analyses.
- Coordination: USAID/IRG in cooperation with the Ministries and Energy Community Secretariat.
- Anticipated Outcome: An analysis performed by the National Planning Teams of energy efficiency and renewables opportunities, as well as other key national priorities, and to institutionalize the energy planning process.



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# Energy Community Strategic Planning Initiative Partners

- **Contracting Parties:** Albania, BiH, Croatia, Macedonia, Moldova, Serbia, and Ukraine
- **Observer Countries:** Georgia and Armenia [this year]
- **EU Countries** (voluntary participants): Bulgaria, Romania





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# Workshop Overview

- USAID, together with Hellenic Aid, have been supporting Capacity Building throughout the region.
- Substantial progress has been made by the participating countries in developing a useful tool for national strategic energy planning.
- Mr. Goldstein, IRG, will provide a brief overview of the MARKAL/TIMES methodology employed by the Planning Teams.
- The presentation by Mr. Sergiu Robu, ASM/EPI provides a glimpse into the approach and substantive outputs from the analysis to date as reported on in the Moldovan Policy Brief.
- There are many assumptions that have to be made, and there is clearly room to refine the inputs to the model as part of a consensus building process.
- This comprehensive national model of Moldova will allow for various scenarios and sensitivity analyses to be carried out.
- USAID plans to engage countries individually and as a group in pursuing further policy discussions and analysis. We have (and we will) conducted similar National Energy Policy workshops, as well as planning a Regional gathering, <sup>5</sup> involving a range of stakeholders in these meetings.



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## Recommendations & Other USAID Plans

- The work to date clearly makes a strong indicative case that energy efficiency and renewable energy investments are important and can contribute to helping Moldova (and other countries) improve their energy security, economic growth and CO<sub>2</sub> emissions situation. It is useful in helping to quantify the costs and benefits of different EE and RE targets to advise the decision-making process.
- USAID is working globally to advance the development of Low Emissions Development Strategies (LEDS) as highlighted in the Copenhagen and Cancun agreements. Given the critical role of energy in Greenhouse Gas (GHG) emissions , we believe this work can serve as a useful foundation for expanding consideration of long-term mitigation strategies, and expect to be discussing next steps with the Energy Community in the coming months.



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# Summary Conclusions

## Purpose:

Strengthen capacity of National Planning Teams in the Energy Community to develop integrated energy system models, undertake strategic energy planning, and inform the policy makers of the results as part of integrating analytic rigor into the strategic planning and decision-making process.

## Results:

The results of National Planning Teams reported in a series of National Policy Briefs, along with a Regional Overview, that laid out the underlying assumptions (and their source), presented a "business-as-usual" view of the evolution of the energy systems, and examined the implications of strong Renewable Energy (RE) and Energy Efficiency (EE) policies.



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## Thank You!

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