USAID-HELLENIC AID Energy Cooperation

Planning Workshop for New Participating Countries – Project Overview

Athens, Greece
May 20, 2008

Presented by Gary Goldstein
International Resources Group

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Presentation Outline

- Proposed RESPN Approach
- Overview of the Proposed Tools
- Preliminary Work Plan Components and Timing

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USAID SEE Regional Energy Demand Planning Initiative

Institutional Capacity Development and Networking for Energy Planning in Countries of the Energy Community

{Refers to the Monday presentation}

USAID/Hellenic Aid Cooperative Energy Program
Kick-off Meeting

Athens, Greece
May 19-20, 2008
[Discussion Lead Gary Goldstein]

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Activity 3: Strategic Planning for Energy Efficiency and Renewables

- Purpose: Continue the process begun under the USAID Regional Energy Demand Planning Project to develop a strategic planning framework for national energy planning that can be used to analyze the impact of various policies and investments in energy efficiency and renewable energy
- Implementation: Preliminary agreement is that USAID/IRG will take lead on Task 1, 3 and 4 and Hellenic Aid/CRES on Task 2
- Coordination: USAID/IRG and Hellenic Aid/CRES agreed to coordinate with Energy Community Secretariat on the preparation of policy scenarios in the region and to share the results

Task 1: Preparation of Models in New Participating Countries	*Task 2: Policy Issues Identification and Analysis Approach*	*Task 3: Capacity Development and Policy Integration*	*Task 4: Regional Dissemination of Results*

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Activity 3: Strategic Planning for Energy Efficiency and Renewables – Task 1

- Preparation of Models in New Participating Countries, Advancing the Existing Models
  - Work with Georgia, Ukraine, Moldova and Montenegro to develop their national energy models
  - Facilitate their participation in the regional project with other Energy Community contracting parties
  - Work with the countries that participated in the USAID REDP undertaking to update, advance and improve their models
  - Introduce the results of Activity 1 and 2 into the model databases

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Activity 3: Strategic Planning for Energy Efficiency and Renewables – Task 2

- Policy Issues Identification and Analysis Approach
  - Work with individual country officials and institutes to identify key energy policy questions important for energy security, economic growth, and environmental improvement.
  - Rank the resulting national and regional issues and a develop a methodology for analyzing these issues
  - Carry out analysis on the implications of the policy scenarios with regard to investment requirements, energy import levels, energy costs, and GHG emissions

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Activity 3: Strategic Planning for Energy Efficiency and Renewables – Task 3

- Capacity Development and Policy Integration
  - Emphasis in this task will be given to establishing a sustainable planning capacity in a center of excellence interested in and committed to the planning process as well as energy efficiency and renewable energy
  - In cooperation with the relevant Ministries (Economy, Energy, Environment), efforts will be made to integrate this planning capacity with Ministry planning and policy processes
  - In cooperation with the relevant Ministries (Economy, Energy, Environment), efforts will be made identify other needs with regard to analytic support for the policy processes

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Activity 3: Strategic Planning for Energy Efficiency and Renewables – Task 4

- Regional Dissemination of Results
  - Workshops and presentations to the Energy Community bodies, and other interested parties and stakeholders, will be carried out to inform policy and investment decision-makers
  - A report on the integrated assessment of EE and RE potential in each of the countries, along with a regional perspective, will be prepared

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Regional Energy System Planning Network (RESPN) - New Countries Proposed Work Plan

Preliminary Work Plan

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RESPN New Countries Proposed Work Plan – Phase I

- Indentify the RESPN Steering Committee representative and likely country Host Institution(s)
- Hold data and calibration workshop(s), explain the proposed approach
- Obtain the basic energy balance data
- Develop the necessary data corresponding to the RESPN Reference Energy System (RES), adapted for each country
- Assemble the detail energy system data in “smart” Excel workbooks reflecting each country situation
- Calibrate the base (1st) year

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RESPN New Countries Proposed Work Plan – Phase II

- Hold Reference Scenario and Modeling workshop(s)
- Development of the Reference Scenario
  - Develop the demand drivers and relationship to the sector demand for energy services
  - Obtain price projections for the various energy carriers
  - Incorporate relevant technologies from the “library” of future technologies, adapt for each country
  - Establish the fuel switching rates for the business-as-usual view of the future
  - Represent any existing policies and known projects
- Adopt data from other Task to be reflected in the Reference Scenario
- Exercise the Reference Scenario and refine the model assumptions/behavior as necessary
- Report on progress to date

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RESPN New Countries Proposed Work Plan – Phase III

- Bring local host institutions fully up-to-speed and begin model transfer activities
- Hold Assessment workshop(s)
- Represent each scenario to the model
  - Policies to promote increased energy efficiency
  - Policies to accelerate renewable technology deployment
  - Other key issues identified by the countries
  - Combinations thereof
- Conduct assessment, refining model assumptions as necessary
- Major project workshop and report with each country's assessment
- Transfer integrated model to a local host institutions, and other interested participating institutions

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RESPN Proposed Work Plan – Phase IV (Optional activity)

- Integrate the country models and depict the trade patterns
- Conduct assessments carried out in Phase III, refining model assumptions as necessary
- Hold Integration and Analysis workshop
- Project report on the integrated assessment

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Organizing the National Teams

- Oversight Ministry(ies)
- Data Development Teams
- National Host Institutions

{For Discuss and Ministry Recommendations}

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Oversight Ministries

- Georgia –
- Moldova –
- Montenegro –
- Ukraine –

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Data Development Teams

- Georgia – Alliance to Save Energy
- Moldova – Alliance to Save Energy
- Montenegro – [EIHP, CRES, ASE?]
- Ukraine – National Academy of Science
  - Institute for Economics and Forecasting (IEF)
  - Institute of Modeling in Power Engineering (IMPE)
  - Institute of General Energy (IGE)

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Potential Host Institutions

- Georgia – ???
- Moldova – ???
- Montenegro – ???
- Ukraine – National Academy of Science
  - Institute for Economics and Forecasting (IEF)
  - Institute of Modeling in Power Engineering (IMPE)
  - Institute of General Energy (IGE)

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