

USAID-HELLENIC AID

Energy Cooperation

Overview of Proposed Technical Work Plan for Regional Renewable Energy Assessment

Planning Workshop on Energy Efficiency in Buildings
and Renewable Energy

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Regional Renewable Energy Assessment

- Purpose: Build upon previous efforts by the USAID and others (The World Bank, EBRD, KfW and EAR) to provide further assessment of the potential and costs of renewable energy within the Energy Community
- Accord: Agreement to participate and establishment of an Advisory Group will be established to provide direction and ensure coordination of the on-going activities
- Implementation: Preliminary agreement is that USAID/IRG will take lead on Tasks 1 and 4 and Hellenic Aid/CRES on Tasks 2 and 3
- Coordination: USAID/IRG and Hellenic Aid/CRES agreed to pursue a formal mechanism within the Energy Community that would have responsibility for renewable energy



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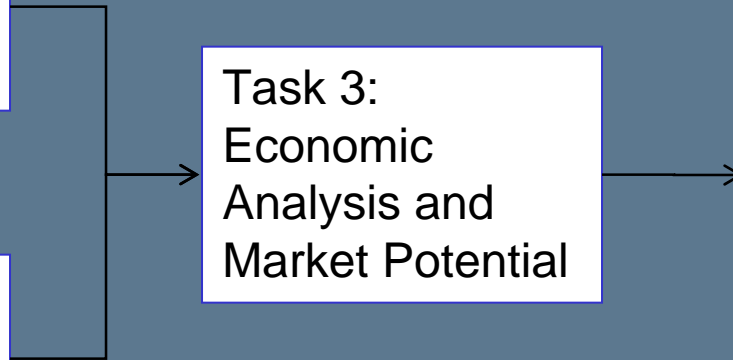
Regional Renewable Energy Assessment Task Structure

Task 1: Legal,
Regulatory and
Policy Framework

Task 2: Physical
and Technical
Resource Potential

Task 3:
Economic
Analysis and
Market Potential

Task 4:
Financing
Case Studies
and Investment
Possibilities



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Regional Renewable Energy Assessment – Task 1

- Legal, Regulatory and Policy Framework
 - ❑ Assess the current state of renewable energy policies, institutions, and promotion mechanisms
 - ❑ Catalogue the existence of best practices
 - ❑ Identify where gaps exist in the policy and investment framework
 - ❑ Suggest best practice laws, policies, and incentives
- Outputs
 - ❑ Stocktaking report characterizing the presence or lack of laws/regulations/policies/institutions to address and promote renewable energy in each country.
 - ❑ Analysis of gaps and best practices



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Regional Renewable Energy Assessment – Task 2

- Physical and Technical Resource Potential
 - ❑ Estimate the physical and technical resource potential of renewable energy in the identified countries based on the use of existing technologies
 - ❑ Estimate the economic potential of each technology after considering cost and tariff considerations
 - ❑ Use the CRES modeling capability to characterize and analyze the data
 - ❑ Conduct field measurements as needed to provide sufficient baseline data on renewable resource potential

- Output

- ❑ A study identifying the technical and economic potential of applicable technologies in each identified country



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Regional Renewable Energy Assessment – Task 3

- Economic Analysis and Market Potential
 - ❑ Estimate the market potential for specific renewable options based on consideration of laws, regulations, policies, and institutional capacity
 - ❑ Develop implications for national energy supply and demand will be through interaction with the Strategic Planning work under Technical Plan Activity 3.
- Outputs
 - ❑ Regional market potential report
 - ❑ Input to the national planning models being updated/developed as part of Technical Plan Activity 3



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Regional Renewable Energy Assessment – Task 4

- Financing Case Studies and Investment Possibilities
 - ❑ Analyze the potential to finance projects indicated by the assessment
 - ❑ Survey potential financing mechanisms and interested private companies and industry groups
 - ❑ Prepare case studies of ongoing or successful renewable energy projects in individual countries
- Outputs
 - ❑ A list of available financing mechanisms for renewable energy projects
 - ❑ Case studies of three project implementation success stories
 - ❑ A report on barriers to financing renewable energy projects
 - ❑ A report on the capacity of private companies to enter into Public-Private Partnerships and private joint venture opportunities



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Renewable Energy Assessment - Inputs from Participating Countries

- Summaries of current renewable energy policies, institutions, and promotion mechanisms
- Estimates of in-country costs for materials and equipment used in renewable energy systems
- Data on the electricity tariffs available to renewable energy systems
- Currently available data on renewable resource potential
- Data on potential financing mechanisms and institutions
- Lists of interested companies and industry groups



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