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# **RESIDENTIAL AND PUBLIC BUILDINGS PROGRAM DESIGN**

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## USAID ENERGY EFFICIENCY PRIORITIES

- Areas of Focus
  - Residential/low income/affordability
  - Public buildings
- Approach
  - Strengthen institutions to provide stronger basis for Government energy policies and plans
  - Improve investment climate to stimulate financing (including non-governmental)
  - Primarily regional focus; some bilateral opportunity



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## PROGRAM OBJECTIVES

- Build capacity among experts from the Energy Community Contracting Parties and Observer Countries to develop the necessary legal/policy/institutional, technical, and financial skills to prepare national and local programs and bankable energy efficiency projects for residential and public buildings.
- The experts will disseminate the skills and products among a working group of key stakeholders in each country.
- Assistance will be provided in 6-7 selected countries to implement country-specific projects and associated activities.



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## PROGRAM OUTPUTS

- Regional experts groups and in-country work groups trained and provided with templates, models, and best practices in the following areas:
  - legal/institutional reforms;
  - quantifying energy efficiency opportunities to develop national targets and programs;
  - financing sources and mechanisms;
  - involvement of key stakeholders; public information campaigns; monitoring and evaluation;
  - dissemination of results.



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## PROGRAM OUTPUTS (2)

- In selected countries:
  - Preparation of investment projects;
  - Seek financing/investment;
  - Promotion of the implementation of energy efficiency programs and projects among relevant officials;
  - implementation/evaluation/dissemination of energy efficiency projects.



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## PROGRAM APPROACH (1)

- Establish Work Group in each country, in consultation with EE Task Force Member, EE Agency, EE Center.
  - Include participation of applicable ministries (Energy, Economy, Housing, Social Welfare, Health, Education); leading mayors and/or municipal associations; interested ESCOs and product suppliers.



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## **PROGRAM APPROACH (2)**

- Establish Experts Group from each country's Work Group.
- EE Agency and/or EE Center
- Experts Group will be trained through regional workshops and use the training to work within the country's Work Group.



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## PROGRAM APPROACH (3)

- Conduct regional workshops among Experts Group:
  - Legal/institutional reforms;
  - Quantifying EE opportunities;
  - Financing sources and mechanisms;
  - Strengthening and enrolling the key EE role-players: Municipalities, ESCOs, HOAs, lenders, etc.
  - Opportunities for Public-Private Partnerships
  - Public information campaigns;
  - Monitoring and evaluation;
  - Dissemination of results.





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## PROGRAM APPROACH (4)

- Assist selected countries' Expert Group member(s) to work with the respective Work Groups on country-specific activities:
  - Developing national/municipal programs;
  - Preparing investment projects and seeking financing/investment;
  - Identifying financing sources and criteria;
  - Promotion among relevant ministry and local officials, Home Owner Associations, private sector;
  - Implementation, evaluation, dissemination.



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## **STEP 1: Solicit Interest From Applicable Ministries, Mayors, Municipal Associations**

- Performed by IRG/ASE/CRES with EE Task Force Members.
- Form work group within each country.
- Facilitate creation of ad-hoc working groups addressing the immediate legal reform and/or institutional restructuring needs based on the current gaps in the energy efficiency policy.
- Obtain commitment to participate in development of program for public and residential buildings.
- Timeframe: June – July, 2008



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## **STEP 2: Regional Workshop on Legal and Institutional Reforms**

- Performed by IRG/ASE
- Provide best practice examples of EE laws, secondary legislation, building codes and enforcement mechanisms, PSP and ESCO procurement mechanisms, municipal borrowing/collateral and procurement, etc.
- Provide templates, exemplary/indicative legislative documents, and international best practices.
- Conduct workshop on model program for energy efficiency social safety net component.
- Timeframe: September, 2008



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## **STEP 3: Regional Workshop on Quantifying EE Opportunities in Public and Residential Buildings**

- Performed by IRG/ASE; provide template and/or software to Experts Group to complete with their respective country Work Groups.
- Quantify total energy use and costs in state and municipal facilities.
- Provide guidance and software to be used to train municipal/public building staff to carry out energy accounting and management
- Breakdown energy use and costs by type of facility (hospital, school, office, standard apartment buildings, etc.)
- Determine primary end-uses in each type of facility.
- Identify typical savings opportunities in each type of facility.
- Establish EE financial performance criteria and quantify macro-level savings potential.
- Establish national EE targets, and national/local program approaches, for public and residential buildings.
- Use successful case studies.
- Timeframe: December, 2008



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## **STEP 4: Regional Workshop on Identifying Financing Sources and Mechanisms**

- Performed by IRG/ASE
- Discuss potential role/track record of commercial lenders; ESCOs; Funds; IFIs; opportunity for Public-Private Partnerships.
- Identify the barriers to EE financing and recommend reform areas for the national EE Work Groups to pursue.
- Provide training and tools on EE financing products for the local banks (topics to cover loans, municipal bonds, micro-credit, guarantee mechanisms, carbon co-financing, etc.).
- Timeframe: March, 2009



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## **STEP 5: Country-Specific Program Promotion**

- CRES assistance to Work Group
- Obtain Government commitment to pursue projects in targeted building sectors.
- Timeframe: March-April, 2009



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## **STEP 6: Country-Specific Identification of Interested Finance Sources.**

- CRES assistance to Expert and Work Group
- Provide training and tools for development of EE financing products for the local banks
- Topics to cover loans, municipal bonds, micro-credit, guarantee mechanisms, carbon co-financing, public-private partnerships, etc.
- Timeframe: April-May, 2009



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## **STEP 7: Regional Workshop on Public Information Campaigns**

- Performed by IRG/ASE
- Provide best practice examples of content and communication methods
- Timeframe: June, 2009





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## **STEP 8: Regional Workshop on Monitoring and Evaluation**

- Performed by IRG/ASE
- Provide methodology, templates and software
- Timeframe: September, 2009



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## **STEP 9: Country-Specific Preparation of Project Proposals (to take place in same time frame as Steps 7- 8).**

- CRES assistance to Expert Group member and, as appropriate, selected countries' Work Groups
- Energy audits
- Bundling similar projects
- Preparation of business plan
- Preparation of tenders for ESCOs and/or Public-Private Partnerships
- Presentation to lenders
- Timeframe: June-September, 2009



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## **STEP 10: Country-Specific Project Implementation and Evaluation**

- CRES assistance to Expert and Work Group
- Timeframe: October, 2009-September, 2010



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## **STEP 11: Regional Study Tour**

- Organized by IRG/ASE, with trainees identified by CRES and local Work Groups.
- Municipal energy managers and municipal associations
- Homeowner/Condominium Association organizations
- Timeframe: February, 2010



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## **STEP 12: Regional Conference on Dissemination of Results**

- Organized by IRG/ASE, CRES, EE Task Force
- Discussion of lessons learned by Experts Group
- Presentation of country-specific program results by relevant Work Group members
- Presentation by Experts Group on plans to develop sustainable approach through national programs, private sector involvement, etc.
- Timeframe: September, 2010



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