Energy Efficiency and CDM Projects

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REGISTERED CDM PROJECTS





Energy Efficiency

Mc Kinsey CO2 Abatement Cost Curve



Source: McKinsey, 2009

US\$ Invested in the Project/CER/yr





US\$ Invested in the Project/CER/yr

Programmatic CDM

- Programatic CDM is organized according with general rules of CDM.
 But, different to "bundling", when presenting the project for registration, it is not required to list all operational and actors that will participate in the project.
- A Program of Activity (PoA) can be understood as an umbrela project and the emission reductions are accounted at the level of each CDM Program of Activity (CPA).
- Each CPA can have a particular owner, must cover different geographical areas, but PoA must be coordenated by only one management unit for the all



Applicability: aggregate similar projects (using the same technology) not yet identified and that will be implemented during the lifetime of PoA.

Programmatic CDM

"Programmatic CDM" project activities are the result of a "deliberate program," whether it is a public sector measure (voluntary or mandatory) or private sector. For example, the program could be a soft loan program for renewable energy.

Key characteristics of a "programmatic CDM" project are the following:

• The program results in a multitude of dispersed actions. Response to the program occurs at multiple sites and amongst a variety of actors (e.g., an appliance effic. program - an individual consumer receives a subsidy for upgrading their appliances)

• The activities and resulting emission reductions do not necessarily occur at the same time, but do respond to the same program. For example, some reductions may occur early in implementation of the program, while others may occur later.

• The type, size, and timing of the actions induced by the program may not be known at the time of project registration; however, they are identified ex-post, attributable to the program, and verifiable.

•• The project is submitted using one single Project Design Document.

Lighting Efficiency Project Sri Lanka

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PROJECT INDICATORS

Demand Reduction on Peak Hours Number of CFLs distributed to consumers Total cost of EE plan without CER Total cost of EE plan with CER Total net cost EE with CER Total amount of electric. Saved Total amount of subsidy avoided Investment on supply avoided Total investment on supply avoided Total extra supply addition from subsidy

First Program Stage Total net cost with CER 200 MW 7 millions Rs\$ 2.8 billion Rs\$ 3.9 billion Rs\$ 1.2 billion 15 GWh/month Rs\$ 0.6 billion/month Rs\$ 0.11 billion/MW Rs\$ 22 billion Rs\$ 5 MW/month

1 million CFLs 0.2 billion Primary Energy Consumption for USA, China, India, and Japan by 1980 Primary Energy Consumption for USA, China, India, and Japan by 2006

