

2nd Meeting of the Indo-German Energy Forum

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Co-operation for CDM Projects

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Present Activities - 1



BEE in cooperation with Indo-German Energy Programme (IGEN) of GTZ has been implementing the following CDM activities since 2003. A total grant of 1.5 Million Euro has been provided by the German Ministry for Economic Cooperation and Development, BMZ.

1. Support the Designated National CDM Authority of the Ministry of Environment and Forests (MoEF). Three national professional staff are assigned there.
2. CEA and IGEN developed national CO₂ Baseline Database for the Indian power sector. This booklet is essential for all CDM Project Developers. It is updated at least once a year and the official GoI database of CO₂ emission in the power sector by CEA.

Present Activities - 2



3. Support and development of high risk methodologies as well as programmatic CDM for supercritical power plants, biodiesel, energy saving lights (CFL, LED), PoA-CDM in buildings, railway, and PoA for biomass power plants.
4. Support in marketing and pre-financing of CERs from national PoA Programmes.
5. Transfer of German Cutting-Edge-Technology for power and cement sector.
6. General capacity development and workshops about CDM for national consultants, other government agencies and public service units.
7. Bachat Lamp Yojana (BLY) - CDM Based CFL Programme





Bachat Lamp Yojana (BLY)

Basic Objectives of Bachat Lamp Yojana (BLY)

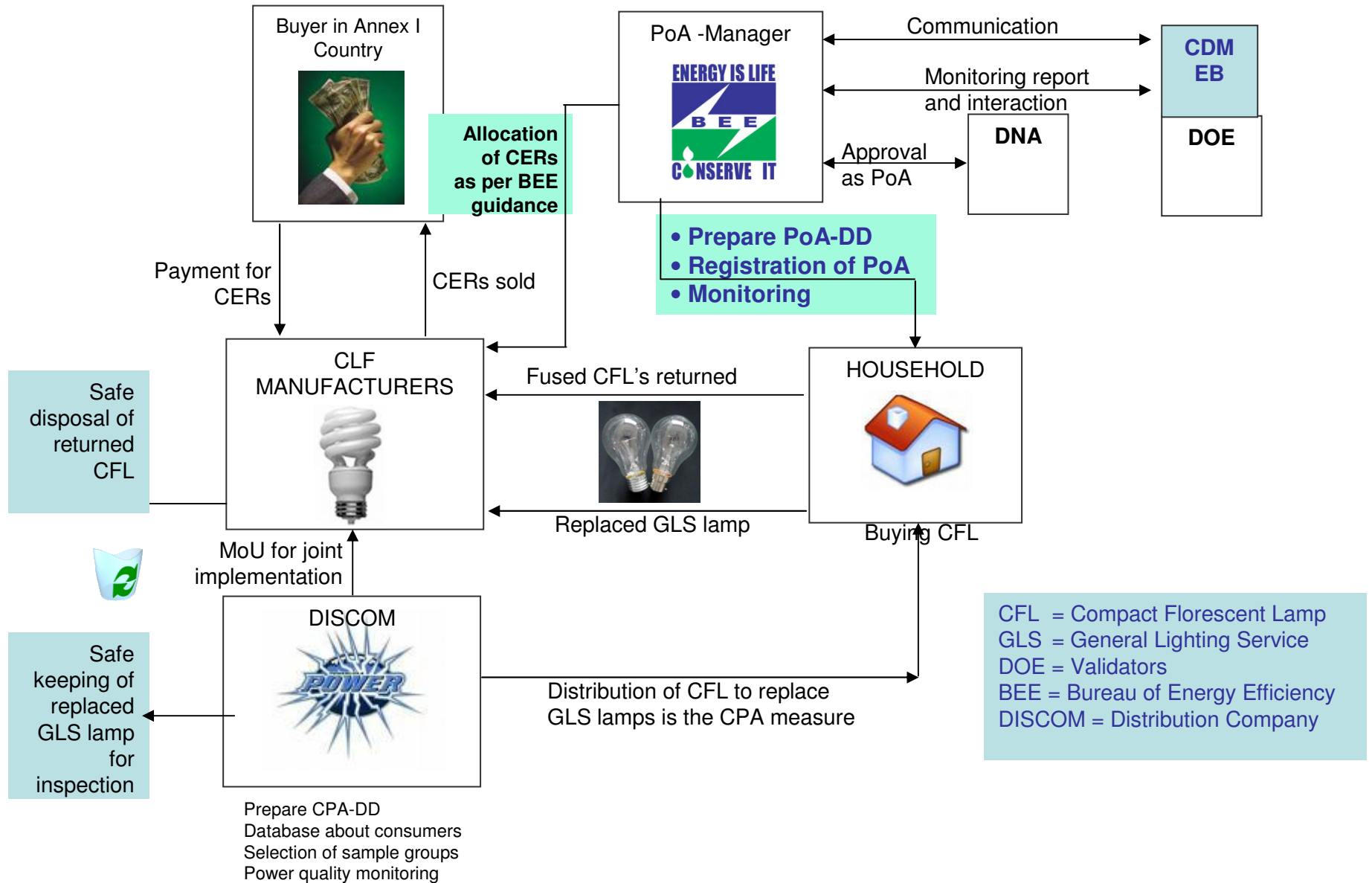
- Replace inefficient incandescent bulbs with CFLs **for households only**
- Reduce price of CFL
- Use CDM to recover balance cost
- CERs generated after monitoring, validation and oversight of CDM Executive Board sold in international markets
- Revenue from sale of CERs used to service investments- Estimated revenue/ CFL of Rs. 25 per year- cost recovered in 2-3 years.
- Potential reduction in power consumption~ 6,000 - 10,000 MW – **XI plan target 4000 MW**

Basic Outline of Bachat Lamp Yojana

- Replace inefficient incandescent bulbs with CFLs
- 18 W CFL can replace 100 W incandescent bulb
- 80% energy savings without compromising lumen intensity
- Energy saving per CFL will be 117 Kwh annually- 0.09 Tonnes of CO₂ (4 hour usage/ day),
- 400 million light points presently estimated on incandescent bulbs could reduce energy consumption upto 10,000 MW
- CFL supplier must make arrangements for buy back of fused bulbs and their safe disposal. Rs. 5 per CFL may be charged for this
- Tripartite Agreement between BEE, DISCOM and CFL Manufacturer/ Trader



Programme Landscape under CDM Methodology



Role of BEE - Bachat Lamp Yojana (BLY)



- Awareness and information
- Development of Programme of Activities Design Document (POA-DD)
- Registration of Programme of Activities with UNFCCC CDM Executive Board.
- Monitoring of CFL use in sample households
- Support the CFL manufacturers/ DISCOMs to prepare CDM Programme Activity Design Documents (CPA-DDs)
- Inclusion of CPA-DDs under the PoA after validation
- Facilitate verification of CERs and recommend their allocation to the CFL manufacturers / DISCOM according to their share in emissions reductions in a specified period



Future Trends and Issues



1. The percentage of bilateral CDM may be increased and German companies may take more commercial interest by investing in CDM projects.
2. Delineation of power sector regions to enhance level of CDM projects in the North-East will be necessary and is presently pursued.
3. More support to “inclusive” CDM where the energy saving consumers will directly benefit. Best examples are PoA for household appliances, such as CFL, refrigerators, air conditioners, geysers.



• T H A N K Y O U •

