



Civil Society Workshop on the CDM & Carbon Markets

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CONTENT



- **Winrock and CDM in Nepal**
- **Status of CDM Projects**
- **Potential Sectors, Issues and Challenges**
- **Barriers**
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WINROCK INTERNATIONAL



- **Winrock International is a nonprofit organization**
- **REPSO: Established in 1998**
- **Working areas:**
 - **Renewable Energy Promotion**
 - **Climate Change: CDM**
 - **Energy Financing**
 - **Micro Finance**
 - **Energy Efficiency**
 - **Supporting and facilitating private sector**

CDM IN NEPAL



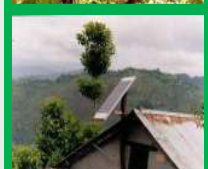
- **Winrock initiated CDM in Nepal in 2003;**
 - PREGA Project with support from ADB
- **Winrock as a National Technical Expert**
- **Awareness and capacity building activities**
 - For public sector, private sector and other stakeholder
- **Strengthen DNA**
- **Prepared 10 PINs and 3 PDDs**

REGISTERED PROJECTS



Name of Projects	No. of systems bundled	Exp ER/yr (tCO2e)	PP	Status
Biogas Support Program – Nepal Activity-1	9,708	30,203	AEPC	Registered & CER issued
Biogas Support Program – Nepal Activity-2	9,688	31,875	AEPC	Registered & CER Issued
Micro-hydro Promotion	448	40,800	AEPC	Registered
Biogas Support Program - Nepal Activity-3	20,254	51,086	AEPC	Registered
Biogas Support Program - Nepal Activity-4	20,348	50,363	AEPC	Registered
Improved Cooking Stove Project	22,930	28,000	CRT/N	Registered
WWF Biogas VER Project	7,500	13,000	WWF Nepal	Registered & CER issued

PIPELINE PROJECTS: VALIDATION



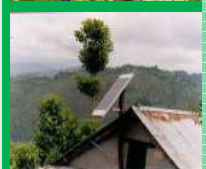
Name of Projects	No. of systems bundled	Exp ER/yr (tCO2e)	PP	Status
Nepal Biogas Support Program-PoA	Annual 20,000	2.49/plant /year	AEPC	Final stage of validation
Promotion of the Improved Cooking Stove (ICS) - Nepal (POA)	532,000	26,000	AEPC	Under Validation
Promotion of the Improved Water Mills (IWM) - Nepal (POA)	17,950	30,000	AEPC	Under Validation
Fuel Efficient Stoves in Chitwan	On average 20,000	20,000	SDC	Under Validation
Fuel Efficient Stoves in Morang & Saptari	On average 20,000	20,000	SDC	Under Validation
Fuel Efficient Stoves in Banke & Bardiya	On average 20,000	20,000	SDC	Under Validation

OTHER PIPELINE PROJECTS



Name of Projects	Exp ER/yr (tCO2e)	PP	Status
Fuel Switch Project of Pioneer Wire	7,500	Pioneer	PDD Approved
Fuel Switch Project of Hulas Steel	9,000	Hulas	PDD Approved
Methane recovery from the waste water of the effluent treatment plant	13,700	HDL	PIN Approved
Methane Recovery at Bhrikuti Paper	20,000	Bhrikuti	PIN Approved
Oil boiler and diesel powered steam turbine replaced with co-generation Rice Husk boiler system at the effluent treatment	9,500	HDL	PIN Approved
WWF GS Biogas Second Phase	NA	WWF/ Nepal	PIN developed
Chitwan ICS Micro Carbon Project	NA	CRT/N	Initial stage
Solar Home System	NA	AEPC	PIN developed
ICS VER Project	5,000	Community	PIN developed

POTENTIAL SECTORS



- **Renewable Energy Sector**
- **Industries**
 - Energy Saving & Energy Efficiency Projects
 - Fuel Switch Projects: Biomass
 - Waste Water Treatment
 - Waste Heat Recovery
 - Combined Heat and Power
- **Landfill (waste to energy, flaring and composting)**
- **EV Industry: BRT, EST, EVs etc**
- **Forestry Projects: REDD+**

DNA & CDM APPROVAL PROCESS



- **GON ratified Kyoto Protocol in 2005**
- **DNA: Ministry of Environment**
- **No Objection letter for PIN**
- **Letter of Approval for PDD**
- **DNA collect 2 % of Carbon Revenue for CDM related activities**

ISSUES & CHALLENGES



- **Only Public Sector Projects with support from donors**
- **Level of Awareness is limited: Private PP & Stakeholders**
- **Process and Procedure of DNA**
 - No clear process and documentation
 - Time consuming
- **Lack of database and reference documents**
- **Limited Technical Manpower**
- **Project Implementation and Monitoring**

BARRIERS

- Small Scale Projects
- High upfront cost:
 - PIN, PDD, Validation & Verification
- Lengthy, Stringent & Dynamic Process
- Data, Information, Reference Documents
- Understanding of DoE regarding local issue
- Lack of Information about Carbon Market



CASE STUDY

■ AEPC:

- Stakeholders are aware about the technology
- Stakeholder consultation, involvement of beneficiaries
- Subsidy to beneficiaries
- Revenue sharing
 - (2 % to DNA, 80% for promotion of sector, 18% for management of project)
- New Revenue Sharing Mechanism
 - (Technology wise and more benefit to beneficiaries)

■ CRT/N

- CER revenue is utilized for project implementation & monitoring
- Dissemination of more improved cook stoves

■ WWF Nepal

- 7,500 Biogas plants registered with Gold Standard
- Additional subsidy from WWF Nepal
- VER: 13,000 tCO₂/year @ 13.5 Euro/VER

CONCLUSION

- Awareness needs to be raised among entrepreneurs and stakeholders and Beneficiaries
- Capacity building activities
- Involvement of NGOs and Civil Society
- Contribution to Sustainable Development
- Post 2012 (Kyoto Protocol) issue
- Opportunities as a Least Developed Country





Thank You

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