

Delivering Sustainable Energy Solutions for Reducing Poverty :

CRT/N's Experience from Nepal

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INFORSE Side Event: Sustainable Energy for Development to Reduce Poverty, NGO Experiences
 9th December, 2009,
 13.00-14.30, Grey Room
 DGI-Byen, Copenhagen, Denmark
 Klimaforum'09
 NGO Side Event to UNFCCC COP15

http://www.inforse.org/europe/conf09_COP15.htm



Introduction

- **Establishment**
 - Registered as a national NGO in 1998
 - Initiated as a private sector organisation in 1989
- **Aim**
 - Develop, promote and disseminate environmentally sound and climate friendly appropriate and renewable technologies
- **Operational Modality**
 - Advocacy/lobbying and participation in national policy/program formulation
 - Local capacity building and awareness creation
 - Community based-action research
 - Technology transfer, program implementation and assessments

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Delivering Sustainable Energy Solutions: Hydro-based Technologies

- **Improved Water Mill (IWM)**
 - Initiation since 1991, more than 5500 IWM installed benefiting 285,000 families
 - **Short Shaft IWM** going on for Grinding Alternator
 - **Long Shaft** for other end uses (paddy hulling, oil expelling, saw milling etc.) and electrification through induction generator
- **Hydro Home System (Motor dynamo-based)**
- **Hydraulic Ram Pump**



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Biomass Technologies

- **Household Improved Cooking Stove (ICS)**
 - Initiation since 1993 and supported by DANIDA from since 1999
 - Mud and metal; about 170,000 promoted development of local capacity and technology transfer
 - Simplified Small Carbon Project – 1700 ICS linked to Voluntary Carbon Market (1.72 t Co2/stove)
- **Institutional ICS**
 - Developed and installed in Maoist Cantonment in 2007
 - Suitable for 50-150 people
- **Briquetting**
 - Production techniques and trainings



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Solar Technologies

- **Solar Cookers**
 - Promoted about 500 Solar Cookers including 200 SK 14 parabolic solar cookers for eco-tourism development along trekking routes with support from WISIONS, Germany
- **Solar Dryers**
 - Promotion of Rack Type Solar Dryers with government subsidy
- **Solar Green-houses**
 - Promotion of greenhouses for vegetable production



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Technology Beyond the Boarder



- **Bhutan**
 - Support for ICIMOD/UNEP supported "Orientation/Training and Exhibition on Appropriate Technologies" to RSPN in 2003
- **Tibet/China**
 - Support to GTZ Integration for development and promotion of Improved Cooking Stove in the Autonomous Region of Tibet, China
- **Afghanistan**
 - Proposed renewable energy technology transfers through support from UN-Habitat
- **Hindu-kush Himalayan Region**
 - Extension of Improved Water Mills technology (IWM) planned


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Carbon Financed Activities





- Chitwan ICS Carbon Project**
 - Implemented in 3 Villages in June 2007 and completed
 - VER purchased by The Offset Carbon Company
 - (TOCC), UK
- Terai ICS Carbon Project**
 - 35,000 ICS in 6 Terai districts
 - At validation stage
 - Egluro, UK as Pre-financier
- CDM Project on Improved Water Mill**
 - A project of AEPIC, CRT/N
 - PIN already approved by DNA,
 - PDD under development
- Nexus Carbon Development**
 - CRT/N Founding Member. Visit: www.nexus-c4d.org
 - Go to news on CRT/N at COP 15





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Networking

- ARECOP supported National ICS Network in Nepal**
 - Since 1995
 - Country Contact Point
 - Capacity building, information exchange and sharing
- International Network on gender and Energy (ENERGIA), Netherlands supported Gender, Energy and Water Network (GEWNet)**
 - National Focal Point since 2004
 - Major works: Gender mainstreaming, information sharing
- International Network for Sustainable Energy (INforSE), Denmark**
 - National Focal Point since 2002
 - Major works: Capacity building on sustainable energy
- South Asia Evidence-based Policy in Development Network, Centre for Poverty Analysis, Sri-lanka**
 - National Steward since 2009
 - Major works: Research based poverty analysis and policy formulation

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International/Regional Membership

- Gender and Water Alliance (GWA), The Netherlands
- The World Conservation Union (IUCN), Switzerland
- Solar Cookers International Association, USA
- Asian Alliance of Appropriate Technology Practitioners (APPROTECH ASIA), Philippines
- World Council of Renewable Energy (WCRE), Germany
- Global Village Energy Partnership (GVEP), USA
- The Mountain Fund, USA
- Partnership for Clean Indoor Air (PCIA), USA










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Observation and Conclusion

- Must have a Global Climate Agreement now that Supports Small Energy Solutions and Technology Transfer
- Must have Policy Framework Support and Commitments for Renewable Energy
- Investment and Grant Financing for Small Scale Efforts must be Supported
- Research and Development, One of the Key Solution
- Support Simplified Small Carbon Initiatives
- Prioritize Community Level Climate Friendly Initiatives
- Renewable Energy Solutions are Cost-effective and Contribute to MDGs including Poverty Reduction
- NGOs/CSOs can Collectively Contribute Towards a Clean and Brighter Future. Let us Act Now !!

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