Introduction

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  - 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

Delivering Sustainable Energy Solutions for Reducing Poverty:

CRT/N's Experience from Nepal
Ganesh Ram Shrestha
Executive Director
Centre for Rural Technology, Nepal (CRT/N)

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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 Alternatives
  - 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

Technology Beyond the Borderer

- **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

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 WBKONE, 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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http://www.inforse.org/europe/conf09_COP15.htm
Carbon Financed Activities

• Chitwan ICS Carbon Project
  – Implemented in 3 Villages in June 2007 and completed
  – VER purchased by The Offset Carbon Company
  – (£CC), UK

• Terai ICS Carbon Project
  – 35,000 ICS in 6 Terai districts
  – At validation stage
  – £440k, UK as Pre-financer

• CDM Project on Improved Water Mill
  – A project of AEPC, 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

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 (DEWNet)
  – 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

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 (WCREE), Germany
• Global Village Energy Partnership (GVEP), USA
• The Mountain Fund, USA
• Partnership for Clean Indoor Air (PCIA), USA

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!!