

Small Scale Renewable Energy Solutions in Nepal

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 (National Focal Point of INFORSE)



International Network for Sustainable Energy




Side Event jointly organised by
 INFORSE & WECF
 UNFCCC COP-14, Poznan, Poland.
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Introduction to CRT/N

- **Established as an NGO in 1989**
- **Objective**
 Promote and disseminate appropriate technologies to meet the basic needs of rural people and improve their life style
- **Operational Mechanism**
 1. Provide technical support and consulting services
 2. Local capacity building
 3. Conduct adaptive and action-oriented research for technical improvement
 4. Networking

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International Membership

- Gender and Water Alliance (GWA)
- The World Conservation Union (IUCN)
- 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)












 Centre for Rural Technology, Nepal (CRT/N)

Affiliation with Regional/International Networks

- International Network on Gender and Sustainable Energy (ENERGIA), the Netherlands
 - National Focal Point
 - Asia Regional Secretariat
- Asia Regional Cookstove Programme (ARECOP), Indonesia
 - Country Contact Point
- International Network for Sustainable Energy (INforSE), Denmark
 - National Focal Point
- Carbon Solidarity Asia (CSA), Cambodia
 - Founding member





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Traditional Scenario



Cooking



Grinding



Paddy dehusking



Oil expelling




Water mill for grinding




Lighting with kerosene wick lamp


Small Scale Renewable Energy Solutions

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Biomass-based




Biogas




Beehive briquette




Improved Cooking Stove



Grinding




Paddy Dehusking




Saw Milling

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Hydro-based




Family-hydro*
(200 watt)



Improved Water Mill**



Peltric Set*



Micro-hydro**
(More than 5 kW)

*Only electrical energy
**Both electrical and mechanical energy

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Improved Water Mill



Grinding



Paddy Dehusking



Saw Milling




Electrification




the Ashden Awards
Award winner
2007
for sustainable energy

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Solar-based




Solar Home system



Solar Cooker



Solar Lamp



Solar Dryer

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Physical Progress (till end of Dec. 2007)

SN	Type	Unit	Progress	HHS benefited
1.	Biogas plants	Number	184,000	184,000
2.	Micro-hydro power	kW	10,347	103,470
3.	Solar home System	Number	95,000	95,000
4.	Solar Lantern	Number	60,000	60,000
5.	Solar Cooker/Dryer	Number	2,500	2,500
6.	Improved Cooking stove	Number	250,000	250,000
7.	Improved water Mill	Number	3,552	3,552
Access to electricity		6 % of the population		




Source: Alternative Energy promotion centre, Nepal government

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Results

1. Increased access to clean energy services
2. Income level of entrepreneurs increased and poverty reduced
3. Employment opportunities created
4. Drudgery, especially of women and children, reduced
5. Helped in cutting of trees
6. Contributed in reduction of carbon emission




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