

UNFCCC COP22 Side-event, Marrakech, Morocco 11 November 2016 - Time: 16:45 - 18:15 Room: Mediterranean

Improving NDCs: Ecovillage Development, Energy Access & Zero Carbon Societies in Africa, Asia & EU

How can local solutions in South and North lead to ambitious NDCs, provide energy access & improve livelihoods?



INFORSE Session 1: 17.30 - Eco-village Development in South Asia

Moderator: Gunnar Boye Olesen, INFORSE

- *How can local solutions support energy access & improved livelihoods?*
by Kavita Myles, Integrated Sustainable Energy and Ecological Development. Association – **INSEDA** and **INFORSE - South Asia**;
- *Experiences from Nepal.* by Shovana Maharjan, Centre for Rural Technology – **CRT/N, Nepal**;
- *How to include Eco-village developments in national plans, in improved NDCs?*
by Dumindu Herath, Integrated Development Association - **IDEA, Sri Lanka**;
- *Eco-village developments in South Asia, mitigation effects, proposals climate finance/markets.*
by M.Mahmodul Hasan, **Grameen Shakti, Bangladesh**;
- *Regional cooperation for local climate action as Eco-village development.*
by Santosh Patnaik, **CANSA**.



Read More: <http://www.inforse.org/asia/EVD.htm> and <https://seors.unfccc.int/seors/reports/archive.html>

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ECO VILLAGE DEVELOPMENT

How can local solutions support energy access and improved livelihoods?

Kavita Myles, Integrated Sustainable Energy and Ecological Development Association, INSEDA and International Network for Sustainable Energy- South Asia (INFORSE-South Asia)



Eco Village Development = Giving rural inhabitants access to
(Renewable Energy Technologies + Livelihood Solutions +
Training + Community Participation) * **Gender**
Mainstreaming

ACTING ON THE PARIS ROADMAP

To create a bottom-up, climate-resilient solution for sustainable development that promotes:

- **Universal energy access.**



Giving every person the opportunity to live a life of dignity, comfort and security

SOME EVD SOLUTIONS FOR ENERGY ACCESS AND ENHANCING LIVELIHOODS



HEERA IMPROVED COOKSTOVE



BIOGAS TECHNOLOGY



SOLAR COOKING



GREENHOUSE



ORGANIC GARDEN



SOLAR DRYING

A Pro-Poor Approach to Universal Clean Energy Access



DECENTRALIZED ENERGY ACCESS

Decentralized, household access to **clean low-carbon energy access** in off-grid areas.

Reaching out to hard to reach areas.



SHARING SIMPLE TECHNOLOGIES

Creating a centralized database of technologies, specifications and best practices that is available to all so that learnings and solutions don't slip through the cracks.

Uncomplicating the sharing and use of technologies.



GRASSROOTS INNOVATION

Tested solutions that are especially designed for the target landscape and needs of the people based on participatory needs assessments.

Rural livelihood security



PRIVATE SECTOR ROLE

Incentivizing private sector involvement for scaling up these technologies and making them more widely available and bringing down costs through mass production.

Incentivizing Markets in universalizing availability of energy solutions.

- **A Compassionate Approach to Improving Livelihoods**



GENDER MAINSTREAMING

Including Women not only in the planning process but placing them in positions of authority and empowering them with tools of monitoring and reporting.

Gender mainstreaming
from end to end .



INCOME GENERATION

Get stakeholder buy-in by addressing those problems that affect them the most—making a living and being financially independent.

Moving towards a higher
HDI.



CAPACITY BUILDING

Education and skill development that gives communities, decision-makers and elected authorities the tools they need to learn where to find information, make the best decision, and fix problems themselves.

Enhancing Resilience
through training



EQUITABLE ACCESS TO DEVELOPMENTAL RESOURCES

Giving stakeholders technology and knowledge resources that they usually don't have.

Fairness in allocation

THANK YOU!

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Improving NDC s Eco-village development, energy access & zero carbon societies in Asia

**A case study from Nepal
Shovana Maharjan
Centre for Rural Technology Nepal**



Center for Rural Technology, Nepal

EVD contribution to achieving national and international Goals and Target



Climate resilient agro-practices to address food security



Integrating Green Energy with Agro-livelihoods



Optimum utilization of available resources for enhancing livelihood



Women involvement in selection of EVD solutions



Increasing access to modern energy technologies



EVD solutions to improve education of children

Result of Capacity Building and Awareness Campaign

S.N	EVD Solutions
1	Bio-Gas repairing /maintenance
2	Waste water management and micro-irrigation
3	Bio-composting
4	Fish ponds
5	Cow-shed management
6	Plantation of hi-value trees and fruits



Adaptation and Livelihood

- Resource optimization under implementation of EVD concept
 - Exploring new agro-based business ventures



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Adaptation and livelihood

- Integration of EVD solutions with agro-based livelihood



Challenges

- Establishment of knowledge or Information Center at grass root level
 - Schools are best organization to be developed as information center
 - Climate change as core subject to be included in curriculum at school level



Center for Rural Technology, Nepal



THANK YOU

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Linking EVD to NDCs and National Development plans in Sri Lanka



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COP22 Marrakech, Morocco
11th November 2016

Eco Village Development (EVD) As a Climate solution



- **Win-Win approach**

- Holistic and integrated approach!
- Robust, affordable and decentralized adaptation and mitigation solutions!
- Prioritizing rural and ecological requirements
- Bottom-up approach

Population By Sector %

Urban -18.3 Rural - 77.3

Estate- 4.4

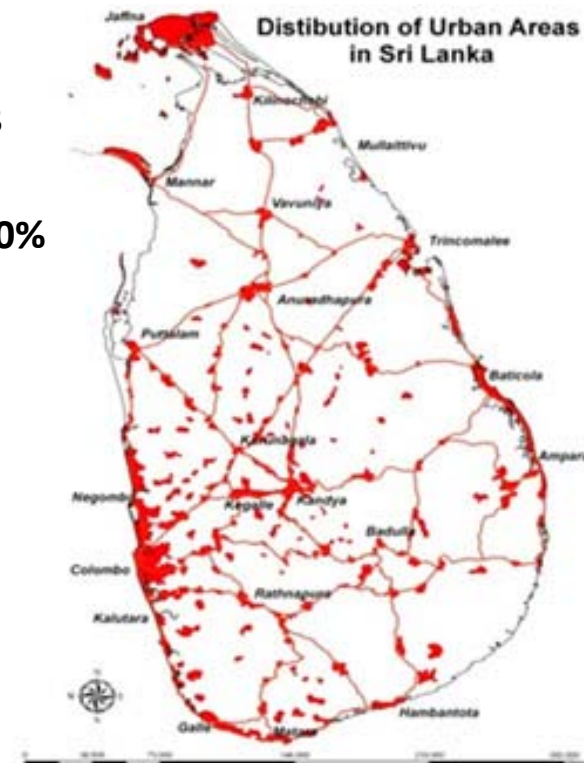
Agricultural Labour force 30%

Energy :

Biomass:

Over 50% (Total demand)

Over 80% rural households utilizes





Where EVD fits in: National Initiatives Following COP21

➤ Sri Lanka NEXT Initiative

The BlueGreen Era

Pledging for 2°C



Programmes in close association with “Eco Village Development”

➤ Development of 10,000 Climate smart villages

➤ “Toxic Free Nation” – 3 Year National Programme

- Reduce the utilization of Chemicals in Agriculture
- Scaling-up Organic Agriculture :Paddy farming

➤ “Surya Bala Sangramaya” Solar power programme.

www.ideasrilanka.org



Sri Lanka INDCs, NDCs : Linking EVD

INDCs prepared by Ministry of Mahaweli Development and Environment, Sri Lanka. **Submission:** April 2016
NDCs prepared by Ministry of Mahaweli Development and Environment, Sri Lanka. **Submission:** November 2016

Key Features : INDCs

Mitigation -5 Sectors

Adaptation – 9 Sectors (Based on NCCAS and NAP)

Loss and Damages

Means of Implementation



Key Features : NDCs (Based on INDCs)

Mitigation -5 Sectors

Adaptation – 9 Sectors

Loss and Damages

Means of Implementation

Eco Village Development (EVD) or similar initiatives –Not Included

Path to inclusion

- Mitigation: Development of Measuring and reporting mechanism (support structure)
 - Many Cross cutting sectors and accounting
- Bottom up approach in setting targets and commitments

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Eco-Village Developments in South Asia, Mitigation Effects and Proposals for Climate/ Finance Markets

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Marrakech, Morocco

Eco-Village Development (EVD) Existing Mitigation actions



The Solar Home
Program
electricity to off-
grid villages

*Replacing
kerosene*

*Free of indoor
air pollution*



Improved
Cooking Stove
*Reducing indoor
air pollution*

*Reducing
volume of
fuelwood*



Biogas plant
Replacing fuel
wood

Smoke free
kitchen

Organic
fertilizer



Organic
Farming
Sustainable
Farming
practices

Healthy life style

Sources of Fund regarding climate change: *Example from Bangladesh*

Own Sources:

- Bangladesh Climate Change Trust Fund (BCCTF)
- Bangladesh Central Bank Green Finance
- “Food For Work Program” from Ministry of Disaster Management & Relief

Multi-donor trust fund:

Bangladesh Climate Change Resilience Fund (BCCRF)

Scale-up for Eco-Village Development: *In the light of Climate Fund*

- Model of Eco-Village Development can be submitted as project proposal for GCF through Executive Entity (EE).
- Climate Fund/Green Fund or any allocated fund for mitigation activities as well as adaptation activities can be asked.
- It's very important to influence the government agencies to take the comprehensive model of Country perspective Eco-Village Development in their "National Action Plan" or "5-10 Years Master Plan" for development road map.