



SB56 2022

11 June, 2022 - 11.30 - 13.00
Room: Berlin



Local Climate Sustainable Energy Solutions in Global Stock Take, 100% RE, Sufficiency: East Africa, South Asia, Europe

Welcome by the organisers INFORSE – SusWatch Kenya, - NFRE – SE -

Intro & Moderator: Judit Szoleczky, INFORSE

Local Solutions in East Africa / Catalogue:

Mary Swai, TaTEDO, INFORSE-East Africa, Tanzania

100 % Renewables Scenarios - Kenya

Nobert Nyandire SusWatch Kenya

Local Solutions in South Asia: India, Nepal, Bangladesh, Sri Lanka. Eco-Village Development Catalogue & Policy Brief

Sanjiv Nathan, INSEDA, INFORSE-South Asia

Sufficiency - overlooked climate action in Global North

Gunnar Boye Olesen, INFORSE-Europe & SE

INFORSE-East Africa Proposals for getting local Solutions into GST

Richard Kimbowa, UCSD, INFORSE-East Africa

Comments

Stephen Nzioka, Ministry of Energy, Kenya

Dialogue on how to integrate local solutions in GST to strengthen climate action - Questions & Answers

More: <https://inforse.org/SB56.php>

Thanks to support:



CISU CIVIL SOCIETY IN
DEVELOPMENT





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**Local Climate Sustainable Energy Solutions in Global Stock Take, 100% RE, Sufficiency:
East Africa, South Asia, Europe**

Local Climate Solutions in GST & Eco-Village Development in South Asia - India, Nepal, Bangladesh and Sri Lanka

Sanjiv Nathan

Integrated Sustainable Energy and Ecological Development Association

INSEDA, INDIA



About INSEDA

- INSEDA is an **NGO Registered in 1995**, working in **India and South Asia**
- **INSEDA** has an **observer status** at **UNFCCC** since **2015**.
- **Dr. Raymond Myles**, President-cum-Chief Executive, INSEDA is one of the **Founder members** of **INFORSE**
- Hosting the **Regional Secretariat of the INFORSE-SA** since 1995
- **Dr Myles** is the innovator of **low carbon, bamboo-based affordable green technologies** developed by INSEDA .
- Designed developed **three kinds of biogas plants** namely, **Deenbandhu, Grameen Bandhu and High-rate Bi-phasic**
- **Innovated** Climate-Friendly, **Eco Village Development (EVD)** model as effective **Mitigation & Adaptation** solution
- **Transferred technologies** to different countries - Cameroon and Uganda
- Implementing **carbon credit projects** in India under **Gold Standard**



International training on EVD conducted by INSEDA



UNFCCC Conference

Low carbon, climate resilient Eco-Village Development in South Asia, Since 2015

Rolled out NextGen EVD project in July 2020 for village-based, local, low-carbon development in four South Asian countries :

- **INSEDA** – India
 - **CRT** - Nepal
 - **Grameen Shakti** – Bangladesh
 - **IDEA** – Sri Lanka
 - **INFORSE-South Asia** - Regional
 - **CANSA** – Regional
- With programme management support by DIB Denmark and
 - Technical Support by INFORSE

Support by CISU, Denmark  **CISU** CIVIL SOCIETY IN DEVELOPMENT



EVD Solutions in India – INSEDA, India



Bamboo reinforced Biogas – Gremmenbandu Bamboo reinforced Rainwater Harvesting Solar Poly Green House – Bamboo frame



Solar Tunnel Dryer – Bamboo frame

Bamboo house/ shelter

Bamboo Compost Basket

Vermi-compost

Organic Kitchen Garden



Solar Street light and lantern



Day-night Solar cooker with battery



HEERA Hybrid and JWALA Improved Cookstove



Energy plantation, horticulure, bamboo, household forestry

EVD Solutions in Nepal - Centre for Rural Technology, Nepal



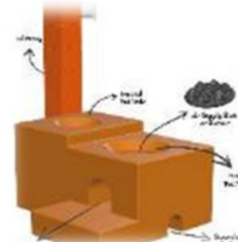
Hydraulic Ram Pump (Hydrum)



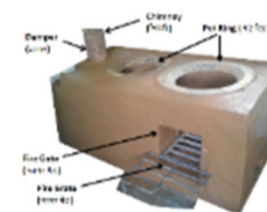
Improved Water Mill (IWM)



SF2 Solar Water pumps



Matribhumi Improved Cook Stove (M-ICS)



Improved Institutional Cook Stove



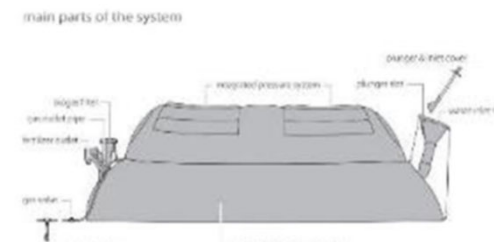
Cabinet Solar Dryer



Rooftop Rainwater Harvesting



Vermi composting



Homebiogas



Greenhouse Tunnel with drip irrigation



High-value Tree plantation

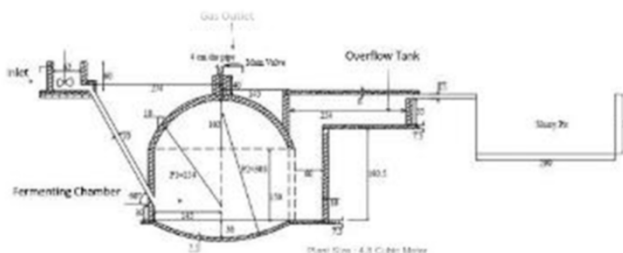


Induction Cook Stove



Renewable water lifting system

EVD Solutions in Bangladesh - Grameen Shakti, Bangladesh



Household Biogas Plant



Solar Home System



Bamboo reinforced Slurry Pit



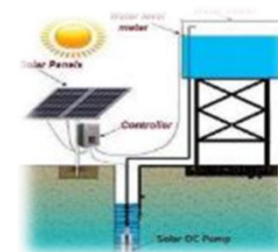
Solar Street Light



Retained Heat Cooker



Improved cookstove (single Burner, with chimney)



Solar water pump



Rainwater Harvesting System



Kitchen garden



Solar System for village shop

EVD Solutions in Sri Lanka – IDEA, Sri Lanka



Anagi- Improved Biomass Stove



Movable and sunken type institutional stove



Roof rainwater harvesting.



Movable Institutional Biomass stove with Chimney



Mushroom cultivation

Composting,

Biomass ovens

improvement in brick making



Non portable Bio-mass dryer

EVD Model - an integrated development approach to help reducing emissions and to provide social benefits

70% of 1.4 billion population lives in rural India

Improved Cookstove – Potential to save

- 300 Mt firewood - per year and
- 340 M t CO₂ per year

Biogas (Potential - 75 m BGP (2cum) from 300 million bovine population

- Can save 200 million tonnes of wood and
- 300 M t CO₂ Per year

Additional social benefits of ICS and Biogas

- Clean kitchen and **improved health of women and children.**
- **Reduction in drudgery** of women in fuelwood collection.
- Reduction in **movement in forest** areas for wood collection.

Rooftop rainwater harvesting

- 150 m families can save 1.5 b cum water and save emissions in pumping water

Composting, kitchen garden by 50 m farmers will help in

- **reduction in emissions** as less chemical fertiliser will be used.
- **improves soil health**
- **soil and water conservation** because of plantations
- **improving quality of vegetables and fruits** from kitchen garden.
- availability of **fuelwood near homes.**
- increasing income
- increased nutritional inputs for women and children.


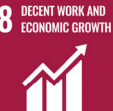












Bamboo plantation helps in:

- drawdown CO₂
- environment restoration
- soil rejuvenation
- reforestation and erosion control
- moisture conservation
- Adding source of income for farmers and women
- Improves the local and surrounding environment

Impact

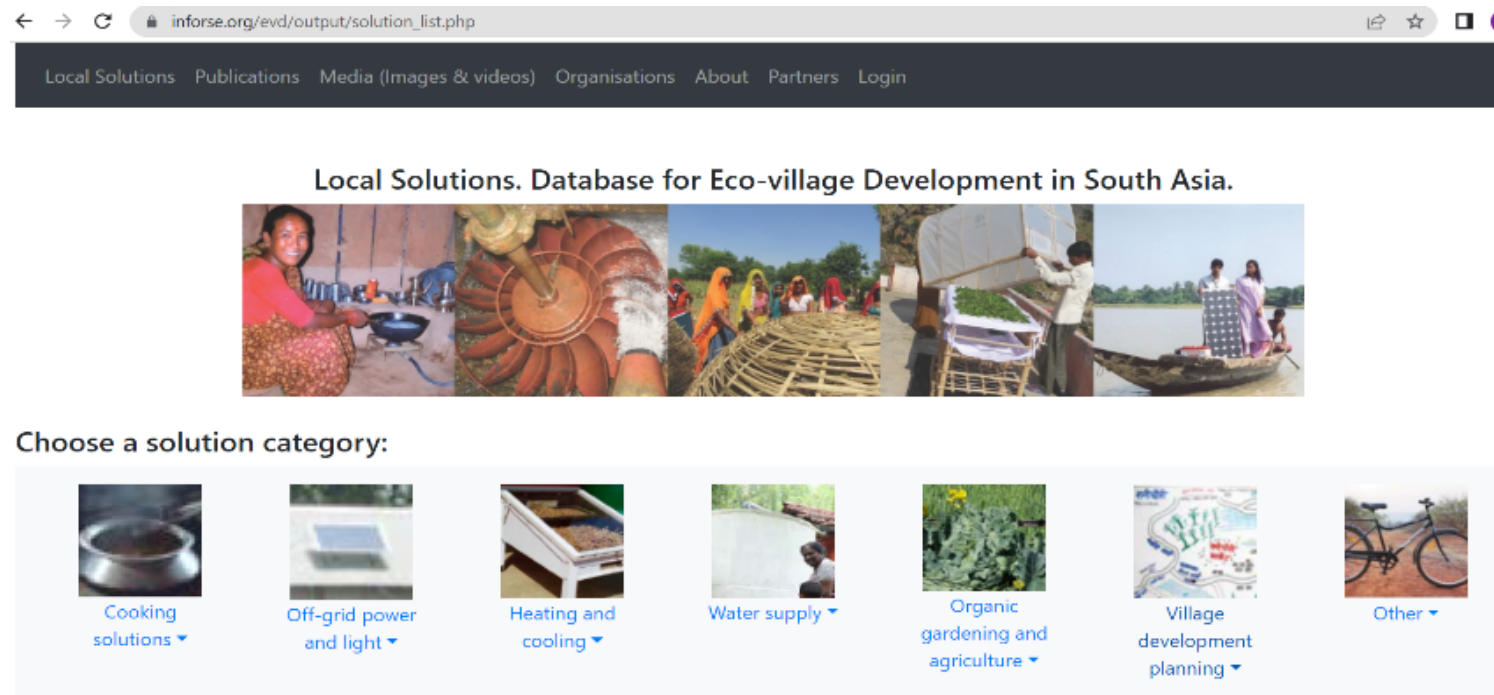
- Reduction of GHG emissions.
- Reduced indoor and outdoor pollution.
- Conservation of water and soil.
- Improved soil health.
- Carbon sequestration.
- Enhanced income of poor communities.
- Increased climate resilience.
- Improved health of women and children and reduced drudgery.

EVD projects contributing to 14 SDGs out of 17

 1 NO POVERTY	Poverty Reduction – Helps increase in income - solar dried produce and products grown using solar poly-greenhouse, kitchen garden, and from making bamboo products etc.	 8 DECENT WORK AND ECONOMIC GROWTH	Helps in economic growth through income generation activities.
 2 ZERO HUNGER	Reduction in hunger - availability of Improved quality of produce - vegetables and fruits from kitchen garden.	 10 REDUCED INEQUALITIES	The project focuses on reducing inequality and involves most vulnerable population
 3 GOOD HEALTH AND WELL-BEING	Good health because of clean kitchen, reduced indoor and outdoor pollution , drudgery reduction, increased income and nutrition food IHME estimates 1.6 m deaths/year, WHO-4.3 m	 12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Responsible production through organic manure, Soil and water conservation because of bamboo and fruits/ fuel and fodder tree plantation, Improved soil health.
 4 QUALITY EDUCATION	Helps in skill development of women and farmers	 13 CLIMATE ACTION	Climate action – mitigation, adaptation, reduction in movement in forest areas (wood collection), carbon sequestration , GHG reduction, climate resilience.
 5 GENDER EQUALITY	Gender: focus on women, participation in planning, income generation and implementation, Reduces drudgery of women in fuelwood collection, cooking etc.	 15 LIFE ON LAND	The EVD concept includes promotion of home forestry and soil and water conservation helps to halt and reverse land degradation
 6 CLEAN WATER AND SANITATION	Availability of clean water because of roof water harvesting unit and sanitation because of biogas and composting	 16 PEACE, JUSTICE AND STRONG INSTITUTIONS	The concept involves responsive, inclusive, participatory and representative decision-making at all levels
 7 AFFORDABLE AND CLEAN ENERGY	Clean Energy is central to EVD concept through improved Cookstove, biogas, solar home system, etc. Reduces use of firewood - 1 million tons of wood is used every day for cooking.	 17 PARTNERSHIPS FOR THE GOALS	Work in partnership : participatory planning, project partnership in 4 countries

Online Catalogue of local solutions from South Asia

- Online catalogue of EVD solutions is developed by project partners in four countries
- The catalogue includes some of the EVD solutions being promoted in South Asia and is available on <https://inforse.org/evd/>
- The description about the solutions is organised category wise and country wise.
- We look forward for inputs from all the participants on the catalogue



You can share comments and inputs via email at

[szidmrjswi2svk@swdmrjswi2svk\\$VQ}plwDmrwihe2svk\\$sv\\$ml\\$ri\\$ex\\$vernzrexlerDmrwihe2svk](mailto:szidmrjswi2svk@swdmrjswi2svk$VQ}plwDmrwihe2svk$svmlriexvernzrexlerDmrwihe2svk)

POLICY BRIEF to UNFCCC SB56: Enhance climate Ambition and Global Stocktake With Local Sustainable Energy

June 11, 2022 UNFCCC SB56 Bonn

- This paper showcases local energy solutions that are important for climate action, with examples from South Asia
- It proposes that in the Global Stock Take (GST), it is reported
 - to the extent these local solutions are used in each country,
 - how they are included in climate plans and NDCs,
 - and the potential they have for further reductions of emissions in each country.
- It proposes to include Local Solutions in Climate Plans as they contribute to climate action as well as to poverty reduction
- Giving them equal access to funding as centralized and non-renewable solutions.
- The plans should tailor national climate programs to local solutions, for instance with micro-finance, involving of civil society in implementations etc.
- The paper shares some of the success of local solutions

Policy Brief download from:

<https://www.inforse.org/SB56.php>



SB56



UNFCCC SB56 Side Event - Bonn, Germany - Local Climate Sustainable Energy Solutions in Global Stock Take, 100% RE, Sufficiency: East Africa, South Asia, Europe // INFORSE - SUSWATCH - NFRE - SE 11/6 2022, 11:30-13.00 Room: Berlin

Thank you

For more information please contact:

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Relevant websites:

www.inforse.org/asia/EVD.htm

www.ecovillagedevelopment.net

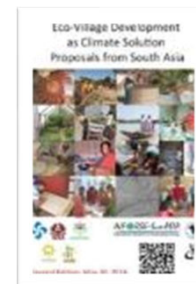
[https://www.inforse.org/asia/Publications EcoVillageDevelopment SouthAsia.htm](https://www.inforse.org/asia/Publications_EcoVillageDevelopment_SouthAsia.htm)

EVD Catalogue www.inforse.org/evd

Proceedings: www.inforse.org/SB56.php

Publications under partnership project

Eco-Village Development as Climate Solution Proposals from South Asia



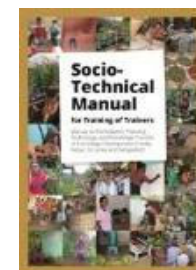
White Paper: Mitigation and Adaptation with Eco-Village Development (EVD) Solutions.

Describes calculation for CO2 reduction through various EVD solutions The calculations can be used in NDCs



Training of Trainers Manual on Eco-Village Development in South Asia

Available in English and four South Asian languages - Hindi, Bangla, Nepali, Sinhala.



Policy Briefs – Positions to UNFCCC



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