



**SIDE EVENT:** Fri. 8 Dec. 2023, 11.30-13.00 Dubai, UAE  
COP28: Blue Zone, B6, SE Room 1, Building #79



**100% Renewable & Local Solutions: Africa, South Asia  
& Local Climate Resilience, Poverty Reduction**



## Participatory Planning of Eco-Village Development (EVD) Concept in South Asia including Women

*by Ms. Anzoo Sharma and Mr. Mahesh Shrestha, CRT Nepal*



ग्रामीण प्रविधि केन्द्र

Centre for Rural Technology, Nepal (CRT/N)

Towards Action for Development ... Since 1989





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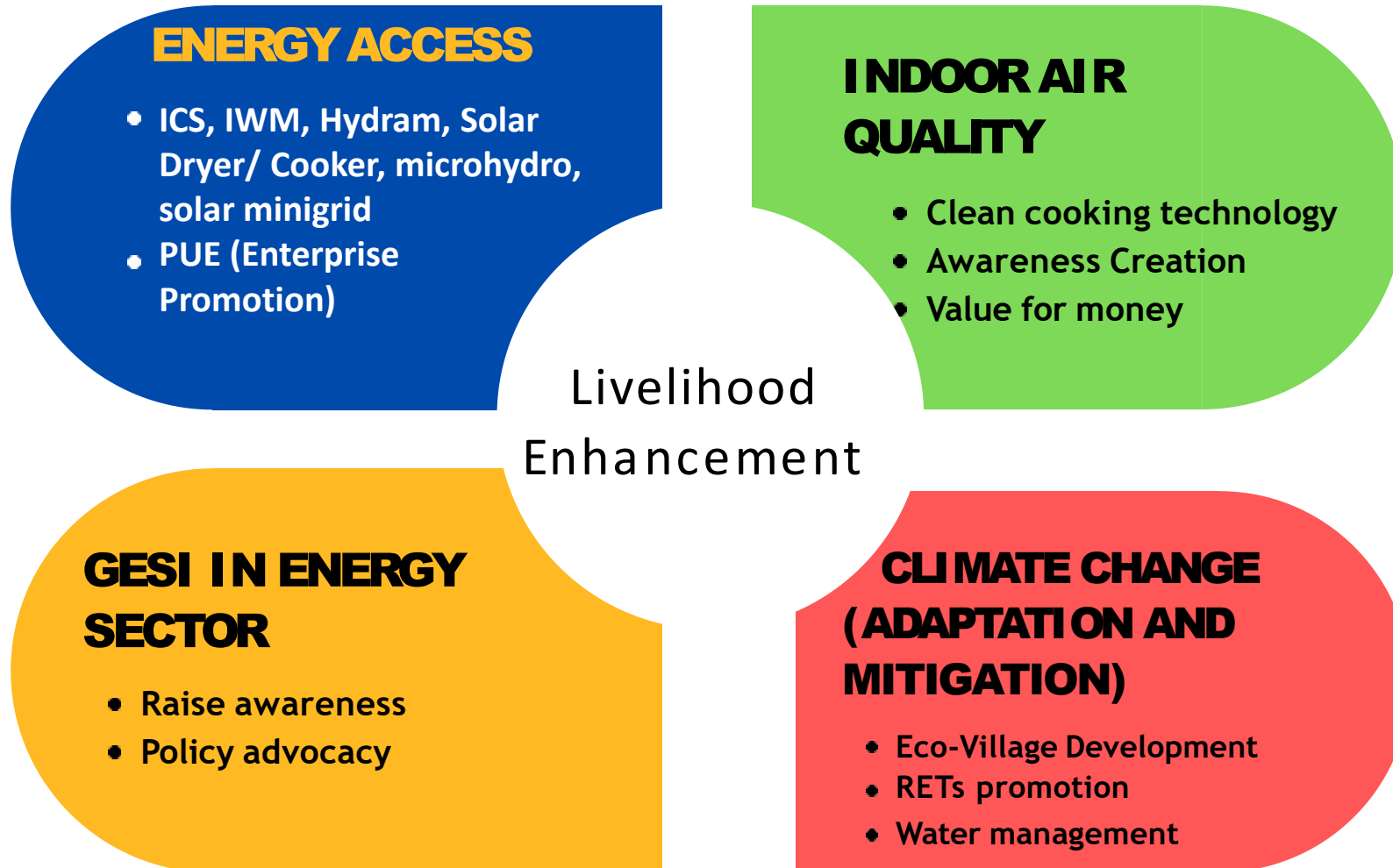


# About Us

CRT/N is a professional non-governmental organization engaged in developing and promoting appropriate rural technologies effective in meeting the basic needs and improving livelihood of rural people. Established in August 1989 under the Company Act, CRT/N has been re-registered with Government of Nepal (GoN) under the Social Organization Registration Act 2034 since October 1998.

# Thematic area

CRT/N is a community-centric organization enhancing the livelihood of rural people through energy contributing to SDG and SE4all.





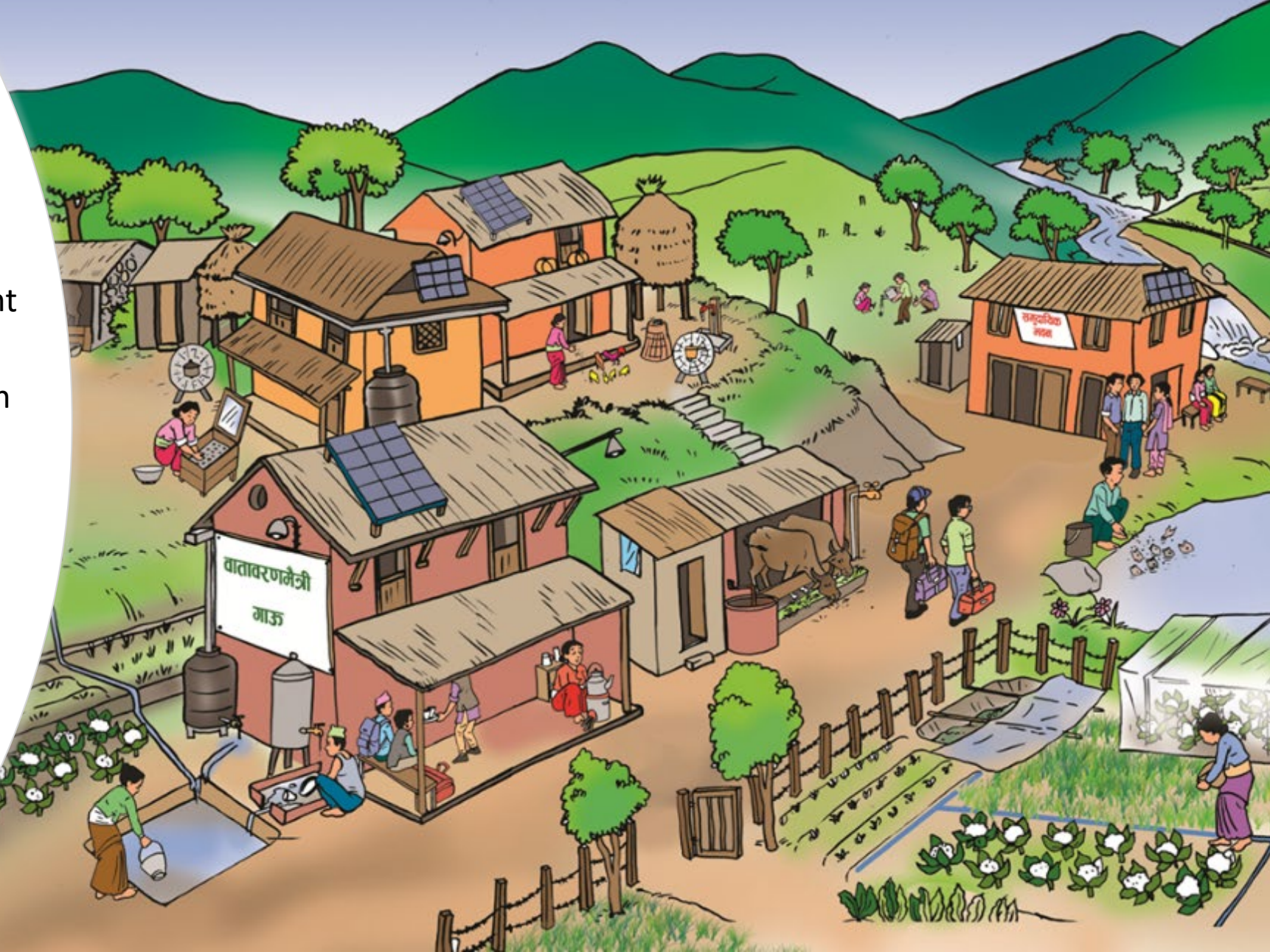
# Introduction EVD

EVD- stands for Eco-Village Development Concept

It is an integrated bottom – up approach  
Empowering the local communities in  
climate smart practices

## Objectives:

- To achieve an improved standard of living for climate vulnerable rural communities
- Integrating the sustainable solution that contributes to climate change mitigation, adaptation and resilience building.



## Approach

- Active participation for decision making
- Participatory Planning Process

- It was done by using Participatory Rural Appraisal(PRA)
  - Transect Walk or Community Walk
  - Social and Resource Mapping
  - Seasonal Calendar
  - Timeline
  - Institutional Diagram/  
Stakeholder Mapping
  - Well-being Ranking
  - Cause and Effect Diagram



# Transect Walk or Community Walk

- This is also called Village walk or observation walk where the people in cluster walks through the village.
- **Objectives**
- To understand the landscape of the village
- To prepare village map
- To identify the resources
- To know about the soil, vegetation, life style, environmental conditions, behavior etc.





# Site Selection



<b>HH Number</b>	<b>RM program</b>
<b>Settlement</b>	Rapport with Local Partner Organization (LPO)
<b>Access to transportation</b>	Receptive Community as per LPO
<b>Local Support Commitment</b>	Existing I/NGOs, CBOs programs
<b>Local Contribution</b>	Existing EVD Solution
<b>Major problem for community</b>	Desired EVD solution







Community walk helps to prepare the social and resource mapping. It contains the location of households, roads, location of resources,

### Objectives

- To identify the social aspects like gender, ethnicity, household, populations, temples, land area etc.
- To understand the real issues and need of the local people.
- To identify the resources available, current use of the resources and location of its availability.

## Social & Resource Mapping



# Seasonal Calendar

An important part in PRA focusing the current status of agriculture and time.

## Objectives:

- To know the activities carried out in the agriculture with respect to time.
- To know the issues in agriculture like diseases, social and technical problems
- To understand the irrigation facilities and current sources
- To understand how the rural people are tackling the problems faced





# Timeline

This tool helps to understand the past time of the villages. It includes the important events faced by the village like natural calamities, accidents, events like fire, forest fire etc. and impacts of those events in the community. This is also called **Community History or People`s History**

## Objectives

- To understand the history of the community.
- Type of events caused
- Impacts of events in community and how they tackled and raised
- Time period of those events
- To cluster the events caused by the climate change





# Institutional Diagram

This called the stakeholder mapping where the important stakeholder and relevant stakeholders( environment and climate change) are identified.



## Objectives

- To find the success and failure events in Climate change adaptation and mitigation.
- To explore the past and existing governmental and non-governmental organization working in the sector.
- Past and current projects
- Coordination among the relevant stakeholders







## Well-being Ranking

Well-being ranking is conducted to identify the Social status of the community. Social status reflect the financial, political and social aspects.

## Objectives

- To find the financial status of family.
- Financial sources like occupation
- To explore the family below the marking and design the project accordingly



# सिन्धली

## Cause and Effect Diagram

प्रभावित क्षेत्रहरू	तत्काल आइपरेका समस्याहरू	भविष्यमा पर्नसक्ने अवसर/प्रभाव
जलवायु / हावापानी		
जलस्रोतको उपलब्धता	१. खातेपानी २. सिंचाइ	सुदूरको पानी खाते गरेरको काम भई खातेपानी कालो हुने ३. पानी आवापने तिपट हुने
ऊर्जा आपूर्ति	घरभित्र धुवाँ / दाउरा धेरै खपत हुने	धुवाँकम हुने र दाउराको हल प्रयोग गर्नु र खातेको र बत जोगल उपकरणको
मानव स्वास्थ्य एवं भौतिक सुरक्षा	अहिले मौला सम्बन्धित नभएको	मानव स्वास्थ्यमा असर वातावरण प्रदूषण हुने
कृषि एवं खाद्य सुरक्षा	पानीको अभावको कारण कृषि पेशा गर्ने नसके	खाद्यमात्र अभाव नभए रुग्ना हुने
जिविको पार्जन	तरकारी खेती गर्ने नपाइको	आयआर्जनमा कृषिमात्र
वन-अंजल एवं जैविक विविधता	घर अगाडि हनीयालिङो कुमी	अभिलिखतको कृषि गर्ने मा असर, वातावरणमा परे.
भौतिक पूर्वाधार विकास	हाटबजार व्यवस्थापन	आयआर्जनमा फाइदा

This is the gist collected from the Timeline which contains major events occurred in the community and conduct by the active participation of the community.

### Objectives:

- Existing environment related issues, its causes and impacts.
- Impacts of climate change in the biodiversity like agriculture, forest, living creatures, etc.
- To find the best solutions for the issues
- Roadmap to design the project addressing the current issues and its relevant local solutions.





Village Development Planning  
Focus on Women Participation



# Steps taken for Mitigation



## Clean Cooking

Electric Cooking  
Improved Cookstoves  
Biogas



## Tree Plantation

Greenery along the roadside  
High value fruit plantation



## Waste Management

Waste segregation at source  
Cowshed management  
Practice 3R





# Steps taken for Adaptation: Climate Smart Vegetable Farming



## Input

Soil Test

Access to Irrigation

High quality seeds

Bio-fertilizer and pesticides

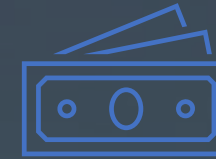


## Green house set-up

Poly-tunnel house

Mulching plastic

Drip Irrigation



## Production and Market

Access to Market

Access to Finance









Marin Rural Municipality



## Achievements obtained from the implementations of Eco-Village Development Plan built with community participatory planning approach

- ✓ 100% households have
  - Access to clean cooking technology
  - Access to clean electricity
  - Access to safe drinking water
  - Access to waste management
  - Access to small scale irrigation
  - Kitchen garden and fruit plants
  - Productively used gray water
- ✓ 21% households practice off-seasonal vegetable farming
- ✓ 90% agriculture is free of chemical pesticides
- ✓ 30% households have improved income
- ✓ 100% DAG households are engaged in income generating activity
- ✓ Improved women economic empowerment
- ✓ Behavioral change towards environmental conservation
- ✓ 197 tons CO<sub>2</sub>e/year emission reduction

Implemented by



Partners



Supported by



Federal Ministry  
for Economic Cooperation  
and Development



CISU CIVIL SOCIETY IN  
DEVELOPMENT

# Thank you for your attention



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Relevant websites:  
[www.inforse.org/asia/EVD.htm](http://www.inforse.org/asia/EVD.htm)  
[www.ecovillagedevelopment.net](http://www.ecovillagedevelopment.net)