



Environment: Forestry, Energy & Ecosystem Services

Rural Access Program 3 Nepal

Introduction

The Rural Access Programme (RAP), which was started in 1999, is now in the third phase. The third phase of RAP (RAP3) started from 1st May 2013. IMCW is prime contractor where as Winrock International, Practical Action and HELVETAS are sub contractors in this programme. RAP-3 intends to improve road access in remote areas and also assist the rural people, especially the poor in income generation and other economic infrastructure like trail bridge, renewable energy, irrigation. The energy related activities are rehabilitation of micro hydro projects, dissemination of Bio Gas plants, Solar Home System, Improve cooking stoves, improved water mills, providing energy access to community schools, health posts, energy for productive end use promotion and exploration of other sources of energy. The duration of this project is up to June 2016.

Rationale

Central Bureau of Statistics (CBS 2012) states that about 1 million households in Nepal still use kerosene and locally available resources for lighting. This situation is critically worse for daily cooking and heating purposes where more than 4 million households use firewood and cow dung which counts to around 74% of the total households, 5.42 million. The figure shows that 94% to 96% of those households live in rural areas. The use of environmentally harmful firewood and kerosene results in indoor air pollution causes health problems, especially for women and children. Furthermore, the increasing prices of petroleum products in the world market will make kerosene lighting more expensive in the future. Moreover, forest resources such as fuel-wood used by communities for heating and cooking purposes are indicated to lead to gradual degradation of natural resources.

Our Solution

Winrock with the financial support of DFID under Rural Access Programme (RAP3) proposes to promote various RETs and explore their end uses in eight remote districts. This project will increase energy access to the rural communities to meet their energy need and as a result their livelihood will be improved.

Project Objective

- To increase access to renewable energy to poor households.
- To replace traditional fuel based energy system by various RETs.
- To increase use of Renewable Energy for production, processing, service delivery & different income generation activities.
- Develop BSPs at local level for after sales services and link them with service providers.
- To increase income through savings on energy.

Targets

The target fixed are:

- 1) Rehabilitation of three micro-hydro projects.
- 2) Installation of 1286 Solar Home Systems.
- 3) Dissemination of 476 rocket stoves.
- 4) Dissemination of 520 metallic improved cook stoves in high altitude.
- 5) Installation of 45 Improved water mills.
- 6) Provide energy access to two community schools for computer education and one health-post.



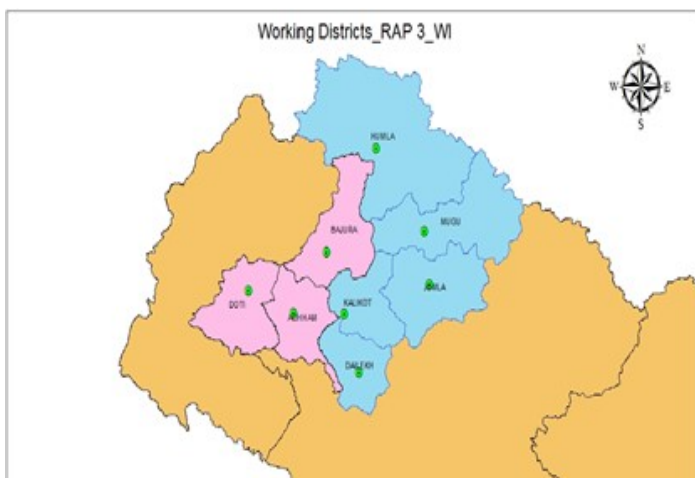


Project Activities

- Preliminary survey in working corridors.
- Demand creation and collection by mass users awareness.
- Coordination with Central and district level stakeholders.
- Provide energy access to rural households of RAP3 road corridors.
- Dissemination of Renewable Energy Technologies such as Micro-Hydro, Improved Water Mills, Solar Home System, Improved Cook Stoves, Bio-Gas, etc.
- Provide energy for processing as per other partners need.
- Training to end users and training for technicians for operation, management and maintenance of energy technologies.
- Linkage with energy service providers and financial service providers.

Working Areas

Doti, Achham, Bajura, Humla, Mugu, Jumla, Kalikot and Dailekh



Roles and Responsibilities

- Identify and select eligible households in RAP3 road corridors.
- Provide orientation and training to beneficiaries.
- Installation of different RETs through pre-qualified companies.
- Carry out due diligence and appraisal.
- Provide technical support.
- Linkage with service providers and financial institutions.
- Monitoring of the project activities.

Project Status & Achievements

- Installation of ISPVS in Help Nepal Health Post in Rara VDC, Mugu district.
- 476 rocket stoves have been constructed.
- 520 Metal Improved cook stoves has been installed.
- 1286 Solar Home Systems has been installed.
- Installation of 2 nos. of Institutional Solar PV systems in two community schools of Dailekh for computer education has been completed.
- Rehabilitation of 3 MHPs at Dailekh.
- 45 nos. of Traditional water mills have been Improved.
- Different technical trainings related to Installation, repair and maintenance of RETs are completed.

Sustainable Impact

- Impact through reduced indoor air pollution and associated health risk, firewood saving, and reduced cooking time.
- Increased rate of school enrollment due to computer education in schools that ultimately rise up the educational status
- Enhanced crop production due to irrigation by use of Solar Water pumping.
- Replacement of kerosene around 80,000 liters annually.
- Local employment opportunity created as BSPs.
- Reduction of around 2,000 tonnes of CO₂ annually, contribute to mitigate Climate change.

Winrock International is a nonprofit organization that works with people in the United States and around the world to empower the disadvantaged, increase economic opportunity, and sustain natural resources.



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