

Asia Clean Energy Forum 2016

AN OVERVIEW OF COMMUNITY RURAL ELECTRIFICATION IN NEPAL

Surendra Rajbhandari Nepal Electricity Authority

Objectives of CRED

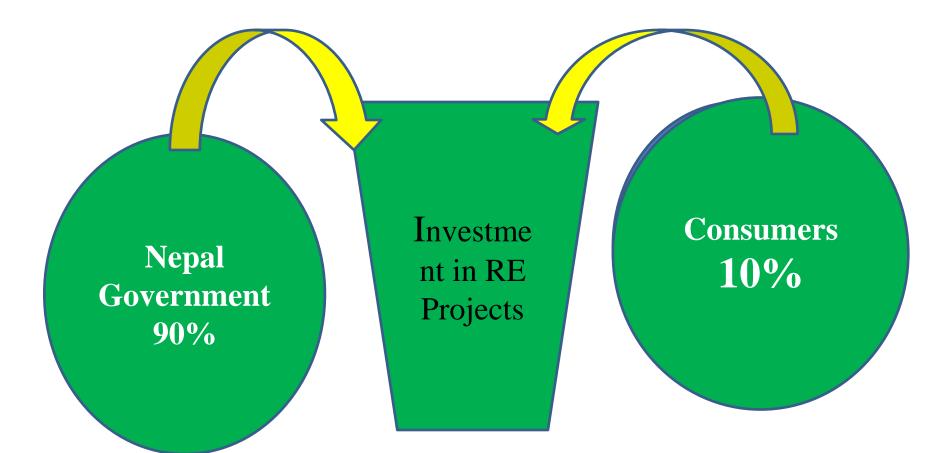


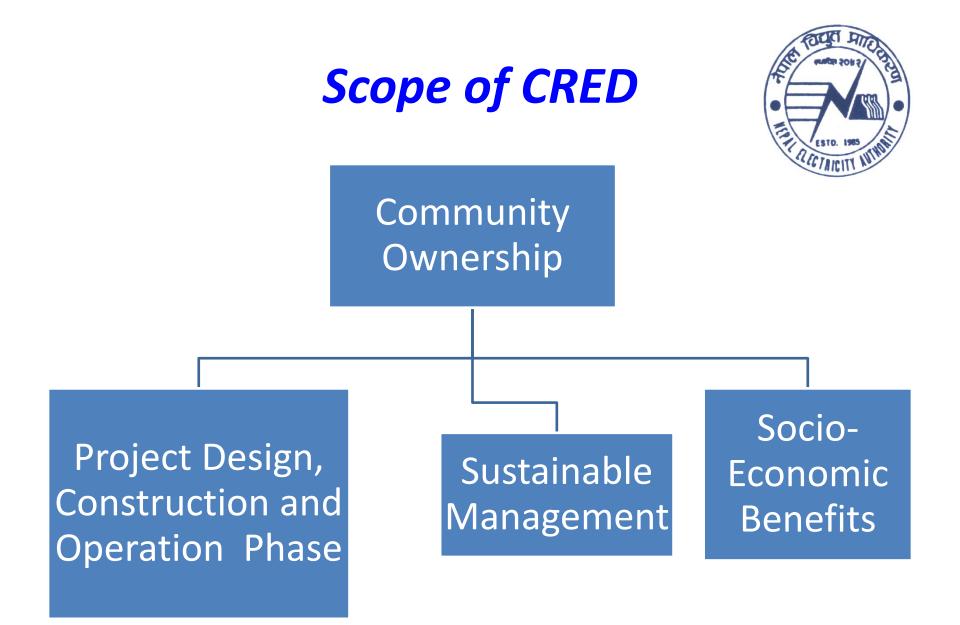
- To promote public participation for bringing effectiveness in the distribution by reducing theft and conducting O & M on community basis.
- To encourage community management in the extension of distribution lines and promotion of electricity distribution system.
- To attract private investment in the field of rural electrification through the Distributing Institution a
- To promote technical and managerial capability of rural community in the field of electricity distribution through Distributing Institution.

Community Rural Electrificat

ÓD

- Joint venture approach between electricity Groups and Nepal Government .
- The Program started in 2002.





Scope contd..



Fast and Sustainable approach of Grid Electrification in Rural Nepal

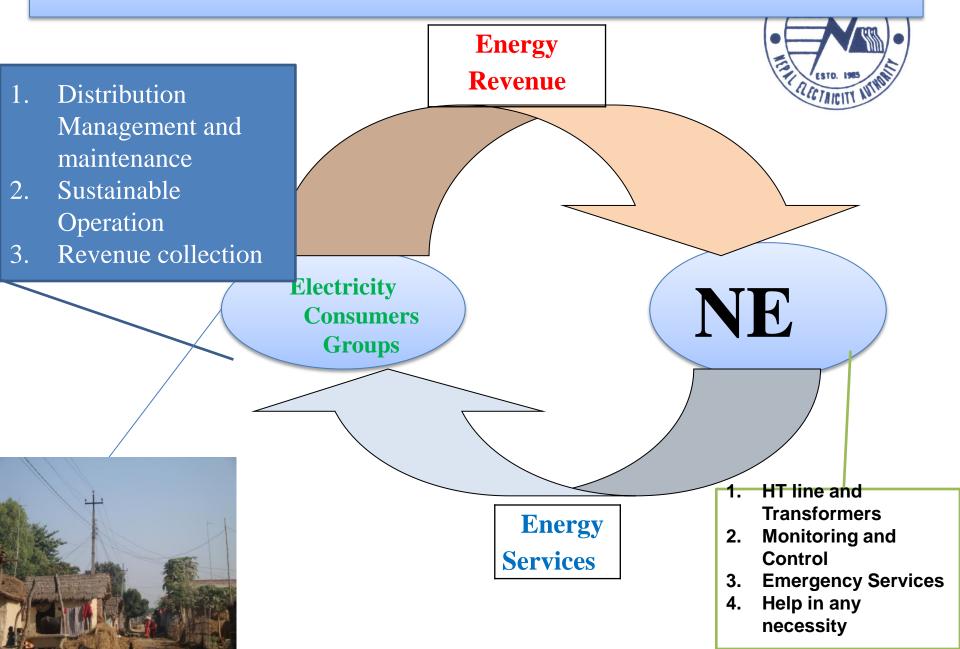


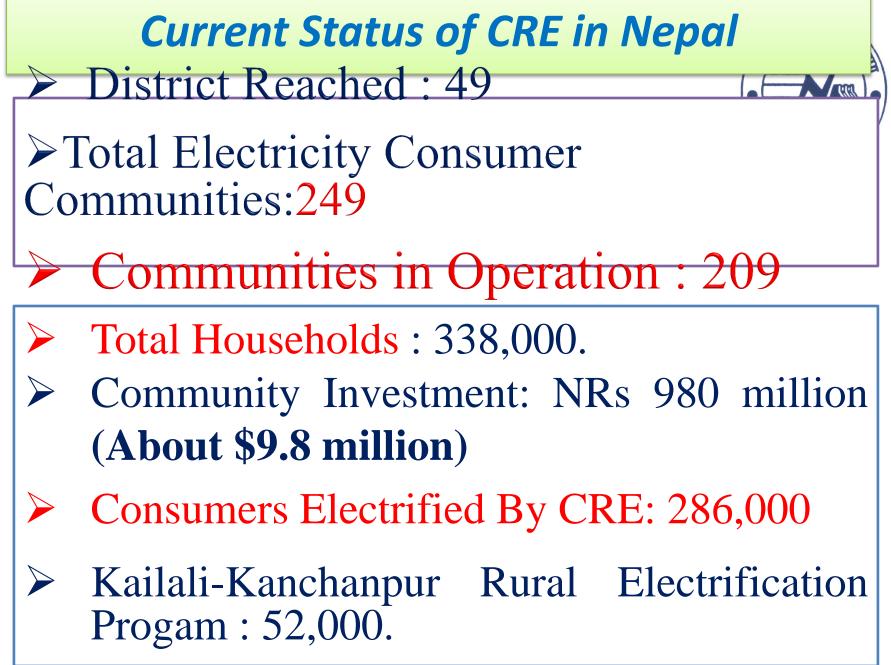
Grid Electricity access to pro-poor communities



P1- Priority One programs of Nepal Government

Community Electrification Model





Current Status of CRE in Nep

- District Reached : 49
- Total Electricity Consumer Communities:259
- Communities in Operation : 209
- Total Households : 338,000.
- Community Investment: NPR 1000 million (About \$10 million)
- Consumers Electrified By CRE: 286,000

Current Status

- Over **165,000** Households are to be electrified by the end of 2016.
- 2,176 Small ,Cottage Industries in Operation.
- Women Ownership if most of the rural industries.
- 3570 Direct Employments Generation.



Challenges

- **Project cost** is high due to monstrous hilly geographical situation and increasing in material cost.
- The **cost of energy** of NEA is Rs. 7.40/Kwh but the rate for CBRE is Rs. 3.60/Kwh.
- Load shedding period is in increasing order.
- Electricity price of NEA has not been increased since 2001 but the materials used in NEA have been increased more than double.



ACCINICITY N

- NEA itself suffering from the **challenges of Tariff vs. Affordability** and there is no clear opinion on NEA's role towards rural electrification
- **Profit of cooperative** is negligible, which indicates its future survival problems.
- **Technical and managerial capacity building** of Communities.

Challenges

There is no **non-technical loss** within the cooperative but the high non-technical loss **surroundings** of cooperative gives the negative impact in cooperative.

- •NEA is Commercial organization with social obligation also but the cost of cooperatives decreases the financial health of NEA.
- The **ratio of investment** in generation with respect to transmission and distribution is not satisfactory, which causes the problem of power flow and **weak infrastructure** in various parts of rural area.











Management Training for EUC









Training Programs on Safety and Efficient Use





Thank You

