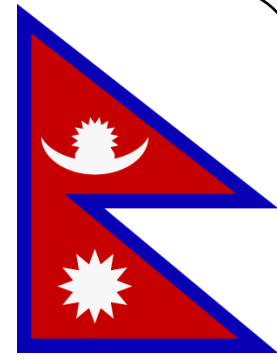




Government of Nepal



# Monitoring & Evaluation system in RE Sector of Nepal and a way forward in the context of SREP

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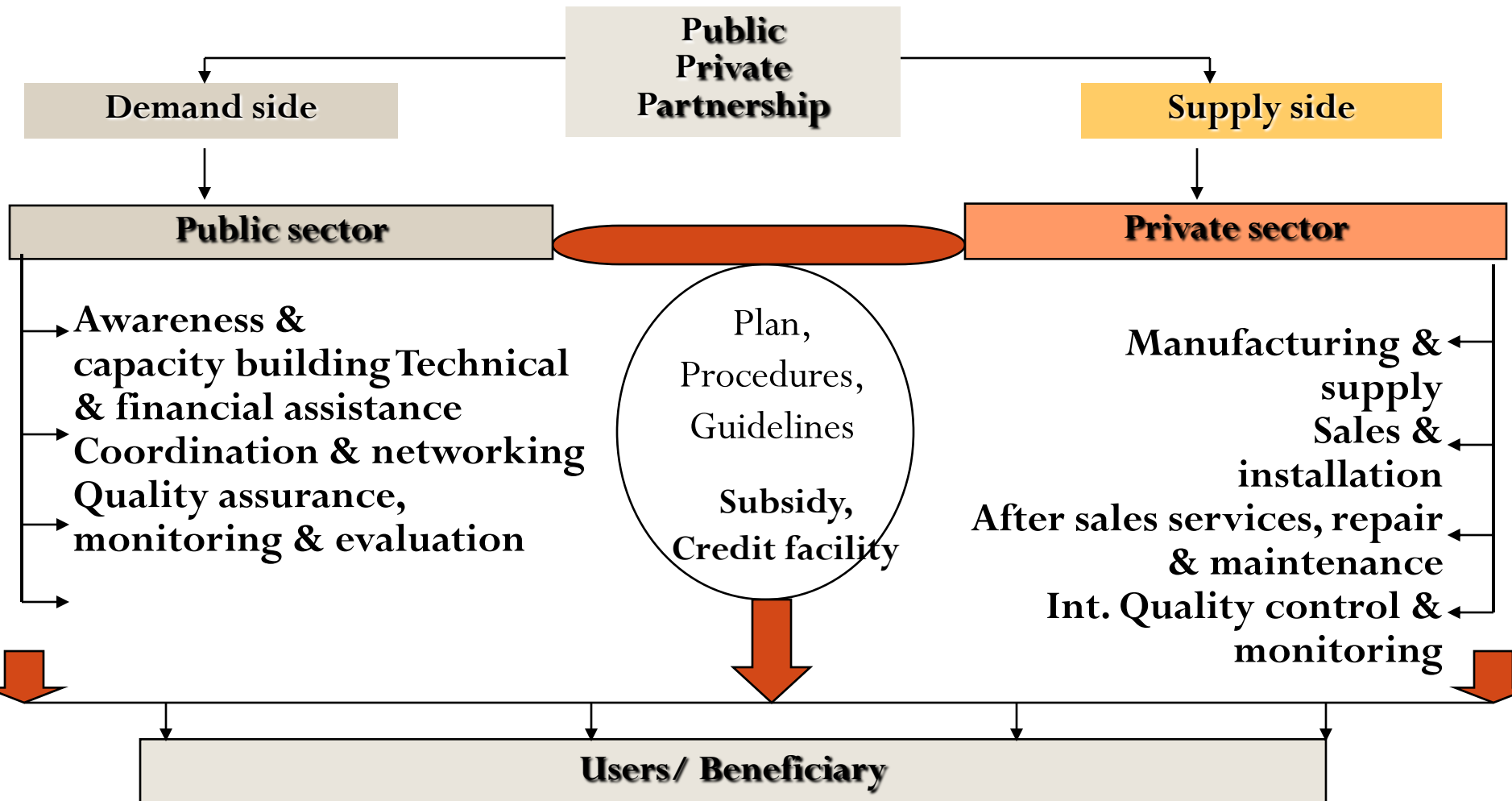
# Outline

- RE Sector Overview
- Existing M & E System
- M & E system in the context of SREP

# RE Sector of Nepal & Alternative Energy Promotion Centre (AEPC)

- RE sector is one of the first priority sector program of GoN.
- AEPC is Government's nodal agency for promotion of renewable energy technologies and is established in 1996;
- Supports GoN in formulation of plans and policies regarding RE,
- Responsible for resource mobilization, coordination, quality control, M& E and Impact study.
- Provides subsidy, credit facility and technical support to users
- Mini/micro hydro, Solar PV & thermal, Biogas, Improved Water Mill and Improved Cooking Stove are widely promoted RE technologies
- Wind, Bio-fuel are in piloting stages

# Renewable Energy Program Implementation Modality



# Existing M & E System in General

- Input, output/outcomes & impact monitoring
- Regular QA & QC from AEPC, its program & local partners
- Project Based Reporting (based on the implementation of activities)
- Monitoring & reporting in line with GoN system
- Sample monitoring from third party in periodic basis
- Impact evaluation from third party (annually)
- Financial auditing from Accounting firm and Attorney General
- Verification from DOE to ensure installation & regular operation of the system for the purpose of CDM
- Public audit at beneficiary level

# Major Monitoring Indicators

- Installation of RE systems by pre-qualified companies
- No of households benefitted (Man. Women, disadvantaged groups)
- No of system installed
- Capacity installed
- Performance of the installed systems
- No. of employment generated
- No. of SME
- & so on

# Monitoring at different level

- **Beneficiary level**

- Public hearing prior construction of the project
- Mass meetings with all the beneficiary households for making major decisions
- Public audit to make clear all income and expenditure during carrying out the activities

- **Project Level**

- Monitoring officer
- Input-output monitoring (based on annual plan)
- MIS database
- Regular QA/QC of sampled plants
- Major indicators
- Sampled monitoring by independent third party

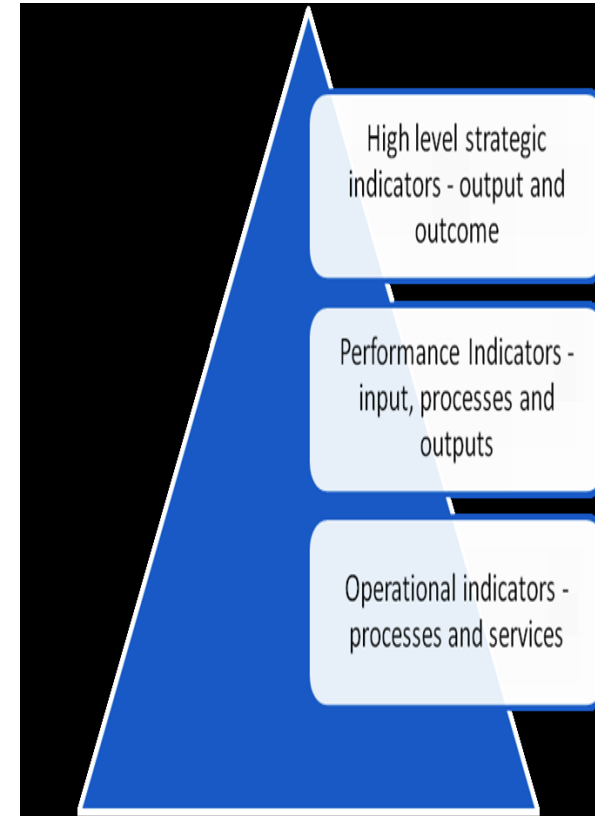
# Monitoring at different level

- Central Level
  - Input-Output/outcomes monitoring (based on government format)
  - Trimester progress reporting
  - MIS database
  - Financial auditing by Attorney General annually
  - Performance of pre-qualified private companies (reward & punishment)
  - Overall impact evaluation by independent third party
    - Employment generation
    - Technical e.g operation/maintenance, efficiency
    - Socio-economic impacts e.g SME, empowerment of women/disadvantage group, social capital,
    - Environmental impacts e.g. GHG emission, indoor air pollution



# M & E System in the context of SREP

- Separate M & E Section in AEPC
- Monitoring system/indicators
  - Strategic indicators
  - Performance indicators
  - Operational indicators
- MIS database (update or revise if necessary)
  - Number system & Capacity installed
  - Number of beneficiaries  
(segregated data for man, woman, ...)
  - GHG emission reduction
  - Number of employment generation
  - Number of people trained
  - .....



# M & E System in the context of SREP

- Reporting to MDBs & GoN on quarterly basis
- Annual monitoring by third party and verification by DOE to verify the CDM requirement (Biogas & off-grid electrification)
- Randomly sampled monitoring to verify installation & operation of system
- Financial auditing by attorney general and/or Chartered Accountant on annual basis
- Supervision and review by MDBs regularly/annually

# M & E System in the context of SREP

- Impact evaluation by third party (once in 2 year)
  - Increased energy assess (capacity of the sector, investment in RE, energy security, cost of RETs, remote areas)
  - Long-term economic viability (Private sector involvement, productive end uses of RE, local capacity)
  - Leveraging of fund from other public & private sources
  - Transformative impacts of the program (removing barriers to RE, replication of RE investment, increase in RE installation)
  - Enabling environment (RE policy & regulatory framework , strengthening of policy and institutions, overcoming non-economic barriers, governance)

Suggestions/Inputs?