Long-Term Energy Scenarios (LTES) for Developing National Energy Transition Plans in Asia.

*Webinar series*

*Scenarios for the Energy Transition of Nepal*

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Strengthening Scenarios Development
Institutional Setup in the Energy Sector in Nepal

- **Government of Nepal**
  - Leading the energy scenario development
  - Generate, transmit and distribute adequate, reliable and affordable power by planning, constructing, operating and maintaining all generation, transmission and distribution

- **Ministry of Energy, Water Resources and Irrigation (MOEWRI)**
  - Mandated for the promotion and development of Renewable Energy & Energy Efficiency

- **Nepal Electricity Authority (NEA)**

- **Nepal Electricity Regulatory Commission (ERC)**
  - To Regulate the electricity Tariff
  - To Protect rights and interests of electricity consumers
  - To make electricity market competitive

- **Water and Energy Commission Secretariat (WECS)**
  - To formulate policies and strategies for the water resources and energy sector (protection of environment aspects)

- **Investment Board Nepal (IBN)**
  - Creating an investment friendly environment, mobilizing and managing domestic/foreign investments

- **Alternative Energy Promotion Centre (AEPC)**
  - Mandated for the promotion and development of Renewable Energy & Energy Efficiency
Use of Energy Scenario
Alternative Energy Promotion Centre (AEPC) Working Modality

**Public Private Partnership (PPP)**

**Demand Side**
- Local Government/Public Sector
- Awareness & Capacity Building
- Technical & Financial Assistance
- Planning, Coordination & Networking
- Quality Assurance, Monitoring & Evaluation
- Demand Collection with Recommendation of LGs

**Supply Side**
- Private Sector
- Manufacturing & Supply
- Sales & Installation
- After Sales Services, Repair & Maintenance
- Internal Quality Control & Monitoring

**Subsidy Disbursement/Policy Making**
- Technical Standard/Guidelines Qualification/Grading/Evaluation

**Users/Beneficiary**
Alternative Energy Promotion Centre (AEPC) Project Implementation Approach

**Demand Collection**
1. Call notice
2. Leaflet of eligibility criteria
3. Demand screening

**Detail Feasibility Study**
1. Project appraisal
2. TRC evaluation
3. Agreement between AEPC/LG and others

**Procurement**
1. Tender Out
2. Tender Evaluation and award

**Construction**
1. Construction supervision
2. Milestone-based Subsidy Disbursement

**Testing & Commissioning**
1. Testing & Commissioning of the installed system
2. Project Completion Report
3. Final Subsidy Disbursement

**Handover**
O & M

Financial closure
Improving Scenario Use
AEPC as a Centre of Excellence

AEPC sees itself (VISION) as “an institution recognized as a regional/international example of promoting large-scale sustainable use of renewable energy and a national focal point for resource mobilization”

Key Elements of AEPC's Long-Term Goals

1. Socio-economic Goal
   • Inclusive and cost-effective energy access for improved living conditions.
   • Affordable and quality energy for areas inaccessible from the grid.

2. Economic Development
   • Mainstreaming renewable energy through commercialization.
   • Raising awareness through knowledge dissemination.

3. Environmental Goal
   • Reducing dependence on traditional energy sources.
   • Decreasing reliance on imported fossil fuels.
   • Contributing to climate change adaptation and mitigation.
   • Protecting the environment through sustainable energy practices.
Communication Methods Employed by AEPC to Share its Energy Plans with Stakeholders.

- **Provincial Government and Local Government**: Workshops, Meetings, Training, Reporting
- **Development Partners**: Bilateral Meetings, Regional/International meetings, Reporting
- **Private Sector**: Workshops, Meetings, Training, Meetings
- **Public/Community**: Workshops, Training, Awareness Program, Community Meetings, Reporting
- **Ministry and NEA**: Workshops, Meetings, Reporting
Capacity Building Approaches
Capacity Building Process of AEPC for Different Stakeholders

**Provincial and Local Level:**
- Workshops and Seminars
- Policy Briefings
- Technical Training Sessions
- Collaborative Project Development
- Monitoring and Evaluation Support

**Local Community:**
- Awareness Campaigns
- Training on Energy Efficiency
- Renewable Energy Workshops
- Skill Development Programs
- Community Engagement Initiatives

**Private Sector:**
- Investment Workshops
- Business Development Training
- Regulatory Guidance
- Partnership Opportunities
- Access to Funding Resources

**Internal Staff:**
- Skill Enhancement Workshops
- Cross-Departmental Training
- Professional Development Seminars
- Knowledge Sharing Sessions
- Performance Appraisal and Feedback

AEPC is committed to enhancing capacities across various stakeholders, driving sustainable energy development.
Thank you for your attention

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