

Optimum development of potential Renewable Energy Resources

Energy Symposia- Recommendations (priority areas)

- 2nd Symposium- identified promotion of Renewable Sources of Energy.
- 3rd Symposium-
 - > Member States to promote Renewable Energy projects (Wind, Solar & Bio-mass) using latest technology to reduce dependence on fossil fuels (imported).
 - > Imperative need to assess global warming led climate change & its impact on the energy resources in the region.
- 4th Symposium- Identification of technology options, financing mechanisms & policy interventions for expeditious development of RE & EE projects within the region.

Need to develop RE projects?

- Non depletion/ renewable source.
- Less or no pollution (GHG emissions, global warming, water contamination, radiations, etc).
- Secondary energy source to supplement base load of utility system.
- Improve energy sources mix/ portfolio & enhance energy security.

Bhutan Scenario- RE initiatives

- Current status-
 - > Development of 2 units of 300 kW Wind Power Plant project under ADB funding (pilot project).
 - > Installation of 1600 systems(Bio-gas plants) under ADB funding.
 - > On-grid & off-grid rural electrification (Lingshi & Soe, solar home lighting)- JICA funding.
 - > Sustainable development of hydropower potential (126 MW Dagachhu & 118 MW Nikachhu HPPs- PPP)- ADB funding.
 - > Approx. 5% of total hydropower potential developed (1488 MW of 30,000 MW)- GOI, Austria & Norway funding.
- Deployment of EVs towards clean & cheaper public transport system.
- Adaptation to climate induced natural hazards (GLOF mitigation, GLOF & Rainstorm Flood Forecasting project- DHMS funded by JICA & GEF).

Bhutan- SAARC Energy Cooperation- Way Forward

- Functional regional energy trading infrastructure & mechanisms (SAARC Framework Agreement for Energy Cooperation (Electricity) 18th SAARC Summit).
- Sustainable & efficient deployment of RE resources projects for clean, reliable & affordable energy in the region.
- Pro-active in R&D of RE technologies, skills & know-how (invest in human capital, SAARC Energy Database).
- Formulate necessary sector policies & regulations; devise relevant financing mechanisms.
- Pursue EE & EC initiatives.