

CSTEP's Session on PPP Models in the Energy Sector



A joint India-U.S. research consortium
funded under the *Joint Clean Energy
Research & Development Center (JCERDC)*

Scientific Achievement:

CSTEP conducted an invited training session for senior government officers in the Energy Department (Government of Karnataka) on Public-Private Partnership (PPP) Financial Models in the Energy Sector.

Significance and Impact:

Knowledge transfer, capacity building, and policy impact: The training on resource assessments and various financing schemes to implement renewable energy (RE) systems to enable better implementation of renewable energy policy by the senior officers of the Government of Karnataka.

Training Session Details:

- Overview of the Karnataka power sector, growth and capacity projections, feasible alternatives, RE imperatives
- Overview of the SERIUS research center and goals of SEI thrust area, major SEI work on resource assessments, engineering economics of solar plants, role of storage and grid infrastructure
- PPP models for financing RE projects: National and state policy frameworks; global and Indian case studies
- CSTEP's SEI-related work on resource assessment of solar energy in Karnataka, and role of hybrid solar wind sites
- Details of the Viability Gap Fund guidelines for solar power projects of SECI, MNRE, Government of India
- Linkages between resource and technology assessment and financing schemes:
 - Large land area and high GHI allow for thin-film technology to be implemented with EXIM bank financing (SERIUS focus)
 - Viability Gap Fund for large solar thermal power plants (eligibility to avail this subsidy based on proven expertise in technology and suitable net worth)
 - Financing of energy projects in Karnataka to ease the burden on project developers in terms of mitigating high rates of interest on debt from private Indian banks
- Well received by participants (officers from generation, transmission, and distribution agencies of the state government), and the Administrative Training Institute, Government of Karnataka has asked CSTEP to conduct similar training sessions to officers in the energy sector.

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