

Filled application forms to be submitted to the Indian embassy/consulate in your country

# ITEC – TERI PROGRAMME

## *Decentralized energy solutions- Planning and implementation*

02-20 November, 2009

*Working together for a Sustainable Future*

*For details, visit*

<http://itec.nic.in/>, <http://www.teriin.org/>

Application forms are downloadable from <http://itec.nic.in>

**Eligibility:** Early/ mid-career government/ non-government professionals from 156 ITEC/SCAAP countries with bachelor's degree in Engineering/science/technology; work experience of 2 years

**Course structure:** The courses will combine classroom lectures with field visits and study tours

**Location:** TERI, Gual Pahari

### Course Details

The course aims to inform and equip participants on decentralized generation (DG) technologies, issues and applications, with a particular focus on rural electrification and the DG as a solution to the demand-supply gap created by the limitation of grid extension. Topics will include an introduction to DG technologies, scientific assessment of renewable energy resources, preparation of DPRs and tools and techniques for designing village electrification projects including use of decision making tools and software.

#### The course would cover:

- Basics of different sources and forms of energy
- Electricity distribution technologies and DG technology options for village electrification
- Rural electrification related issues and challenges.
- Status of existing (biomass, solar, hydro, wind etc) as well as emerging technologies
- Policies related to Renewable Energy and DG
- Tools and techniques for collection, analysis of data in designing village electrification project.
- Resource assessment study for preparation of DPRs
- Pre project appraisal and techno economic analysis of various technology options.
- Design of mini grid in village clusters and scope of renewables- hybrid generation.
- Solar PV power plant- Issues and challenges
- Biomass gasifier based power generation – Issues and challenges
- Small hydro technology- Issues and challenges
- Mainstreaming renewable energy based DG programs
- Successful case studies, performance and impact of distributed generation projects implemented in India and abroad
- Analysis tools for Renewable Energy: RETScreen® and HOMER
- Financial and GHG Analysis with RETScreen
- Field visits for Solar PV, biomass gasifier and wind diesel hybrid systems

### Advantages of attending the course

- The training program is targeted to train energy professionals in design and implementation for a decentralized village electrification programme.
- The program will inform participants about the national and international scenario of village electrification, equipping them effectively for independent implementation.
- The participants should acquire knowledge and skills in the essentials of any successful program: design and planning, resources assessment, benefit/cost analysis, implementation, monitoring and evaluation.
- After the training program, the participants should have working knowledge of various distributed generation options and their cost economics for providing access to electricity in rural areas

### How to apply

Fill up the ITEC/SCAAP application form (downloadable from <http://itec.nic.in/form.htm>) and submit it to the nodal Government Department/Agency designated to nominate candidates. The nodal Department/Agency will in turn forward the applications to the Embassy/High Commission of India. Selected participants would be informed by the Indian embassies of the respective ITEC/SCAAP countries.

*For further information*, please contact

Course Coordinators: Mr. Debajit Palit ([debajitp@teri.res.in](mailto:debajitp@teri.res.in)) and Ms. Poonam Saxena ([poonamd@teri.res.in](mailto:poonamd@teri.res.in))

ITEC coordinator: Ms. Swati Ganeshan ([swati.ganeshan@teri.res.in](mailto:swati.ganeshan@teri.res.in))

**ITEC (Indian Technical and Economic Cooperation, Ministry of External Affairs) will meet the costs of the courses, travel and stay of the selected participants.**