

INTRODUCTION AND OBJECTIVE

Renewable energy technologies are expected to contribute substantially towards meeting rapidly increasing global energy demand with minimum environmental emissions. One of the primary feasibility requirements for large-scale sustained diffusion of renewable energy technologies relates to their financial/economic viability for the investors. Therefore, a detailed holistic evaluation of their financial viability for individual investors and economic feasibility for society at large is critically important prior to formulation and implementation of policies and programmes for their large scale dissemination as well as establishment of different institutional mechanisms in this regard. Any such attempt must try to internalize all relevant technical and economic parameters as well as environmental considerations applicable to the renewable energy technologies. A thorough understanding of the basic tools of engineering economics as applicable to techno-economic evaluation of renewable energy technologies is necessary to properly undertake evaluation/appraisal of a project.

A variety of financial, regulatory and other incentives have been proposed for promoting the use of renewable energy technologies. It is therefore necessary that the professionals in the industry, commercial enterprises, NGOs and research and development establishments are also able to assess

and evaluate the effect of individual and combined incentives on the financial viability of renewable energy technologies for power generation as well as the suitability of different types of existing and potential incentives for enhancing the dissemination of renewable energy technologies.

The four-day short course is primarily designed for those interested in learning various tools and techniques of engineering economics as applied for financial feasibility evaluation/appraisal of renewable energy based power generation projects and desirous of acquiring the skills to undertake the analysis on their own. Therefore, the primary emphasis of the course would be on knowledge and skills development of the participants in the relevant areas. It is envisaged to include a couple of sessions for hands-on practice during the course (each participant is requested to bring a scientific calculator for this purpose).

TOPICS TO BE COVERED:

- Brief overview of important characteristics of renewable energy technologies for electricity generation and their implications for financial/economic viability
- Basics of engineering economics as applicable to financial appraisal of renewable energy technologies.
- Experience curves and estimation of future cost of renewable energy technologies

- Incentives (FiTs, RECs, Tax credits etc) and financial viability
- Tariff fixation
- Carbon emissions mitigation benefits
- Economics of decentralized power generation based on renewable energy sources
- Effect of modalities of financing on the financial viability of renewable energy based power generation
- Software for techno-economic evaluation of renewable energy based power generation
- Case studies

WHO MAY PARTICIPATE?

Engineers, Researchers, Scientists, Managers and other Executives working in the area of renewable energy

DATE AND VENUE:

Date: May 29 – June 01, 2012

Venue: IIT Delhi (Room No. to be intimated later)

FEES: Rs. 20000/- (Rs. Twenty thousand only)

Payable by DD/cheque (Delhi A/c) in favour of “**FITT, IIT Delhi**”

**Last date for registration:
April 30, 2012**

SPEAKERS:

1. Prof. T. C. Kandpal, IIT Delhi
2. Prof. S. C. Mullick, IIT Delhi
3. Guest Speakers

REGISTRATION FORM

**Short Course on
Economics and Financing of Renewable
Energy Technologies
(May 29- June01, 2012)**

Name : _____

Designation: _____

Organization: _____

Address: _____

Email : _____

Phone : _____

Mobile : _____

Fax: _____

Fees Payable to "FITT, IIT Delhi"
Draft / Cheque No.: _____

Dated: _____

Drawn on: (Bank) _____

Rs _____

Signature of applicant

ACCOMMODATION

This is a non-residential programme. The participants are expected to make their own arrangements for stay. Subject to availability, the organizers will try to book accommodation on payment basis within the guest houses of IIT Delhi, if requested sufficiently in advance through the Registration Form.

**For further information please contact:
Coordinator**

**Prof. T. C. Kandpal
Centre of Energy Studies (CES)
Indian Institute of Technology (IIT) Delhi
Hauz Khas, New Delhi – 110016
Ph: 011- 2659 1262
Email: tarak@ces.iitd.ac.in**

Please send your registrations to:

**Mr. K. K. Roy
Sr. Manager (Tech./Admn.)
Foundation for Innovation and
Technology Transfer (FITT)
Indian Institute of Technology Delhi (IIT),
Hauz Khas, New Delhi – 110016
Phone: 011- 2659 7285, 2659 7164
Fax: 011-2685 1169,
e-mail: kirityroy@yahoo.com,
uaswal@gmail.com**

**Short Course
on
Economics of Renewable Energy
Based Power Generation**

May 29- June 01, 2012

at

Indian Institute of Technology Delhi



Under the Aegis of



**Foundation for Innovation & Technology
Transfer, (FITT), IIT Delhi**