Module No. 2: Renewable Energy Policies & Planning No. of weeks / credits 7

Week 1-2

Policies for Grid-connected RE

Part A

- Assessment of International Policy & Regulatory Regime
- Investment Subsidies
- Fiscal Measures
- Feed-in Tariffs
- Quota Obligations/Green Certificates
- Bidding Systems for Facilitating Trade in Green Certificates
- o Renewables Portfolio Standard
- Production Tax Credits
- o Power Sector in India
- Jawaharlal Nehru National Solar Mission
- o Grid-connected RETs: Status

Part B

• Electricity Act 2003

- Background
- Objectives of the Act
- Abridged Version Covering Salient Sections in Electricity Act 2003

National Electricity Policy 2005

- o Introduction
- Aims & Objectives
- National Electricity Plan
- o Issues Addressed
- o Rural Electrification
- o Generation, Transmission, Distribution
- Recovery of Cost of Services & Targeted Subsidies
- Technology Development and R&D
- Competition Aimed at Consumer Benefits Financing Power Sector Programmes
 Including Private Sector Participation, Transmission & Distribution Losses, Energy
 Conservation, Environmental Issues, Training and Human Resource
 Development, Cogeneration and Non-conventional Energy Sources, Protection of
 Consumer Interests and Quality Standards, Coordinated Development

Electricity Tariff Policy 2006

Objectives

Salient features of the policy

• Rural Electrification Policy 2006

- Salient features of the Policy
- o Renewable Energy Power Policies
- Generation Based Incentive (GBI), FDI Inflows to Non-conventional Energy-Government Initiatives, Jawaharlal Nehru National Solar Mission, New Hydro Power Policy, National Policy on Biofuels

Part C

• Organization of the Energy Sector in India

- o Introduction
- Planning Commission
- Organizations under the Administrative Control of MoC
- Public Sector Undertakings
- Private Sector Companies
- Organizations under the Administrative Control of MoPNG
- o Transmission and Distribution Companies
- Power Exchanges
- Regulatory Organizations
- o Energy Conservation Organization
- Renewable Energy Sources
- Nuclear Energy Institutions
- Financing Institution

Part D

Power

- Introduction
- o Generation
- o Transmission and Distribution
- Consumption
- o Power and Indian Planning
- o Policies, Programmes and Regulations
- Status of Power Sector Reforms
- New Developments
- Smart Grid Initiatives in India

Week 3-4

• REC Procedures

Procedure for Registration of Renewable Energy Generation Project by Central Agency

- o Objective
- Applicability and Scope
- Step-wise Description of the Procedure
- Functions, Roles and Responsibilities of Entities Involved, Information
 Requirement Application Form & Content
- o Report: Format for Registration Certificate, Timelines, Fees and Charges
- o Event of Default and Consequences Thereof, Powers to Remove Difficulties
- CERC Generic cost of renewable power

Week 5

• Solar Rooftop Report

- Forum of Regulators
- o Introduction
- o Rooftop Solar PV Experience in India
- o Context of Developing Net Metering Regulations in India
- Net Metering Business Models
- Supporting Framework
- Net Metering Model Regulations for Rooftop Solar Projects
- o Definition of Eligible Consumer
- o Renewable Purchase Obligation
- Applicability of Renewable Energy Certificates
- o Metering and Commercial Settlement
- Connection Agreement
- Annexure 1: Gross Metering and Net Metering Concept
- o Annexure 2: Net Metering Meter Configuration Options
- Annexure 3: Net Metering Connection Agreement

Week 6

- Policies and programmes for Off-Grid RE Power
- Comparative Study on Rural Electrification Policies in Emerging Economies:
 - o Introduction Rural Electrification: Main Challenges and Issues
 - o Technologies Commonly Used in Rural Electrification Policies
 - o A Focus on Government Policies for Rural Electrification
- Renewable Policy 2006

Weeks 7 & 8

• Policies and Programmes for Decentralized RE Applications

- Introduction
- o JNNSM
- o Biogas
- Solar Cities
- o Energy Efficient Solar/Green Buildings
- o National Biomass Cook Stoves Programme
- Energy from Urban
- o Industrial and Agricultural Wastes
- Energy Conservation Building Code (ECBC)

• Development of Solar Cities Programme

- Goals and Objectives
- Assistance to Urban Local Governments
- Financial Assistance under Solar City Programme
- Criteria for Selection of Cities

• Scheme For Off-Grid and Decentralized Solar Cooker Programme

- Background
- Objectives, Scopes, Mode of Implementation
- o Funding Pattern, Approval Mechanism
- Project Management Consultant / Cell (PMC)
- Monitoring and Evaluation
- o Technical Requirements
- o Appointment of Channel Partners
- Supporting Innovation
- Natural Calamities and Disasters
- o Interpretation of the Guidelines

- Review, Fixing of CFA and Benchmark Cost
- Guidelines for Channel Partners
- Validity of the Scheme

• Off-Grid and Decentralized Solar Thermal Application Scheme

- National Biogas and Manure Management Programme (NBMMP) during 12th
 Five Year Plan
- o Scheme on "Energy Efficient Solar/ Green Buildings
- Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues during 12th Plan period
- Unnat Chulha Abhiyan (UCA) Programme during the year 2013-2014 and balance period of the 12th Plan

Week 9 & 10

• Other Incentives and Programmes for RET

- Introduction
- Type of Incentives
- Income Tax Holiday
- Accelerated Depreciation
- o Excise & Customs Duty Exemptions
- Concessions in Electricity Duty
- Green Cess/ Tax
- Priority Sector Lending for RE Sector
- National Clean Energy Fund (NCEF)
- CSR Funds
- Clean Development Mechanism (CDM)
- o Bundling of Solar Power with Coal Based Power

Study Guide: Week 6-10