



Institute for Capacity Development (ICD)

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Advanced Energy Economics

Course Objectives

On completion of the course, participants should be able to:

- Develop sustainable energy strategies.
- Identify the potential contribution of different technologies in meeting future energy needs
- Tackle challenges of projecting energy demand
- Measure costs associated with energy supply and use
- Conduct energy survey and audits

Target Groups

- Energy engineers, analysts, managers and auditors
- Chief sustainability officers
- Architects
- Construction planners and designers
- Agency and facility managers
- Development planners
- Regulatory Authorities
- Economists and Utility Officers

Course Outline

- General Management Principles and Skills
- Introduction to Energy Economics
- Basic Drivers of Energy Demand
- Understanding demand side management
- Economic aspects of Demand Side Management.
- Challenges of Projecting Energy Demand
- Relationship Between Economic Growth And Energy Demand
- The Prices and Costs of Energy
- Costs Associated with Energy Supply and Use
- The Impact of Long-Term and Short-Term Energy Demand
- Energy Markets and Energy Price Subsidies
- Investments in Energy
- Energy consumer Classification
- Energy efficiency measures
- Energy management technology
- Renewable energy and Demand Side Management

- Energy Surveys and Audits
- Natural Monopoly and Electricity Generation
- Deregulation and Privatization of Electricity Generation
- Externalities and Energy Pollution
- Risk and Hedging
- Tariff Design and Dynamic Pricing
- Prices vs. Quantities and Cap and Trade
- Alternative Energy and Innovation
- Energy reduction programmes
- Load management programmes
- Energy and Climate Change
- Database Management
- Action Planning

Dates: 16th – 27th April 2018

Duration: 2 weeks

Course Costs: US\$3250

Venue: Windhoek, Namibia