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

- 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.
- 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
- Action Planning

Dates: 20th – 31st January 2020

Duration: 2 weeks

Course Cost: US$3150/delegate

Venue: Pretoria, RSA