COURSE OVERVIEW EE0346
Energy Strategy & Policy Management

Course Title
Energy Strategy & Policy Management

Course Date/Venue
Sessison 1: July 20-24, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
Session 2 : December 22-26, 2025/Fujairah Meeting Room, Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
EE0346

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description

This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Energy Strategy & Policy Management. It covers the market overview, spot, hedge, retail, frequency keeping, ancillary markets, cash flows for generators and retailers; the generation, retail, transmission, distribution, consumers, governing legislation and market rules; the electricity power flows and concepts including energy conversions and units; and the AC grid, HVDC link and inter-island power flows, losses, line limits, transmission and line charges.

During this interactive course, participants will learn the total demand for electricity, history and projections of demand growth including seasonal demand profiles; the embedded generation and grid off-take as well as metering and reconciliation; the types of generator and basic characteristics, fuels and renewable sources and generation by fuel type; the hydro, thermal, geothermal, wind and cogeneration; the wholesale spot and ancillary markets; the cost of supply; the electricity price behavior; and the retail and hedge markets.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on energy strategy and policy management
- Explain market overview, spot, hedge, retail, frequency keeping, ancillary markets, cash flows for generators and retailers
- Review generation, retail, transmission, distribution, consumers, governing legislation and market rules
- Explain electricity power flows and concepts including energy conversions and units
- Identify the AC grid, HVDC link and inter-island power flows, losses, line limits, transmission and line charges
- Explain total demand for electricity, history and projections of demand growth including seasonal demand profiles
- Determine embedded generation and grid off-take as well as metering and reconciliation
- Recognize the types of generator and basic characteristics, fuels and renewable sources and generation by fuel type
- Illustrate hydro, thermal, geothermal, wind and cogeneration
- Discuss wholesale spot and ancillary markets as well as the role of the system operator in dispatch, offers and bids, market models and reserves and frequency keeping
- Explain cost of supply comprising of fuel use of efficiency of thermal generators, heat rate, fuel cost calculations as well as long run and short run costs
- Identify electricity price behavior through understanding historical price patterns and their origin
- Carryout retail and hedge markets covering retail TOU contracts and hedge contracts

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of energy strategy & policy management for executives and managers from the electricity, energy, legal and banking sectors as well as government officials, regulators and consultants and those who are interested in taking an in-depth look at how electricity markets work in both theory and practice.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Mr. Mostafa Amin is a **Senior Electrical Engineer** with over **25 years** of extensive Onshore & Offshore experience within the **Oil & Gas**, **Petrochemical and Power** industries. He is an expert in **Electrical Safety**, **Power System** Equipment, **Electrical** Drawing & Schematics, **Circuit Breaker**, **HV Switchgear Maintenance**, **HV/LV Equipment**, **High Voltage Electrical Safety**, **LV & HV Electrical** System, **HV Equipment Inspection & Maintenance**, **Overhead Power Line Maintenance Patrolling & Washing**, **Energy Transmission & Distribution**, **Transmission Line** Structures, Insulators & Accessories, **Transmission Line Construction & Maintenance**, **Insulated Power Cables**, High Voltage Applications, **Transmission Line Parameters**, Sag & Tension of Conductor, Geomagnetic Disturbances, Reactive Power Compensation, **Overhead Line Troubleshooting**, **Electrical Equipment & Control Systems**, **Electric Distribution System Equipment**, **Electrical Power Generation**, **Electric Substation & Distribution, Protection Relays** Maintenance & Application, **Power Transformers** Operation & Maintenance, **Power Transformers** Protection, **Power System** Protection & Coordination, **Power Management** Systems, Protection System Tuning & Configurations, **Distribution System** Operation & Maintenance, **Earthing System**, **HV/LV Motors** Maintenance & Protection, **Circuit Breakers**, Lighting Systems, Underground Cables and Uninterruptible Power Supplies (**UPS**). Further, he is also well-versed in Maintenance & Troubleshooting of UPS Systems & Battery Power Supplies, DC Power Plant, Electric Power System Troubleshooting, Electric Motor Testing, Practical Troubleshooting of Electrical Equipment & Control Circuits, Motors & Variable Speed Drives, Diesel Generators, Analogy/Digital Field Instruments, Direct Current Panels, Gas Turbines, Fire & Gas Detection, Hazardous Area Classification & Intrinsic Safety, Permit to Work & Risk Assessment, Sequence Programming and Programmable Logic Controllers (**PLC**). He is currently the **General Manager** of **Petrobel** wherein he manages the overall company operation and developing strategic plans.

During his career life, Mr. Mostafa has gained his expertise and thorough practical experience through handling challenging positions such as being the **Assistant General Manager**, **Department Manager**, **Section Head**, **Instructor/Trainer** and **Electrical Engineer**.

Mr. Mostafa has a **Bachelor's** degree in **Electrical Power & Machines Engineering**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and has delivered numerous trainings, courses, workshops, conferences and seminars internationally.

Course Fee

US$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:

30% Lectures
20% Workshops & Work Presentations
20% Case Studies & Practical Exercises
30% Videos, Software & Simulators

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Electricity Market*** *Market Overview*
0930 – 0945	*Break*
0945 – 1100	***Electricity Market (cont'd)*** *Spot, Hedge, Retail, Frequency Keeping & Ancillary Markets • Cash Flows for Generators & Retailers*
1100 – 1215	***Electricity Market (cont'd)*** *Generation, Retail, Transmission, Distribution, Consumers Governing Legislation & Market Rules*
1215 – 1230	*Break*
1230 – 1420	***Electricity Market (cont'd)*** *Electricity Power Flows & Concepts Energy Conversions & Units*
1420 - 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Transmission: The Grid*** *AC Grid*
0930 – 0945	*Break*
0945 – 1100	***Transmission: The Grid (cont'd)*** *The HVDC Link & Inter-Island Power Flows*
1100 – 1215	***Transmission: The Grid (cont'd)*** *Losses & Line Limits*
1215 – 1230	*Break*
1230 – 1420	***Transmission: The Grid (cont'd)*** *Transmission & Line Charges*
1420 - 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Demand*** *Total Demand for Electricity □ Demand Growth - History & Projections □ Seasonal Demand Profiles*
0930 – 0945	*Break*
0945 – 1100	***Demand (cont'd)*** *Embedded Generation & Grid Off-Take □ Metering & Reconciliation*
41100 – 1215	***Supply*** *Types of Generator & Basic Characteristics, Fuels & Renewable Sources, Generation by Fuel Type*
1215 – 1230	*Break*
1230 – 1420	***Supply (cont'd)*** *Hydro, Thermal, Geothermal, Wind & Cogeneration*
1420 - 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0930	***The Wholesale Spot & Ancillary Markets*** *Role of the System Operator in Dispatch □ Offers & Bids*
0930 – 0945	*Break*
0945 – 1100	***The Wholesale Spot & Ancillary Markets (cont'd)*** *Market Models □ Reserves & Frequency Keeping*
1100 – 1215	***Cost of Supply*** *Fuel Use & Efficiency of Thermal Generators, Heat Rate □ Fuel Cost Calculations*
1215 – 1230	*Break*
1230 – 1420	***Cost of Supply (cont'd)*** *Long Run & Short Run Costs*
1420 - 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0930	***Electricity Price Behavior*** *Understanding Historical Price Patterns & Their Origin*
0930 – 0945	*Break*
0945 – 1100	***Electricity Price Behavior (cont'd)*** *Understanding Historical Price Patterns & Their Origin (cont'd)*
1100 – 1215	***The Retail & Hedge Markets*** *Retail TOU Contracts*
1215 – 1230	*Break*
1230 – 1345	***The Retail & Hedge Markets (cont'd)*** *Understanding Hedge Contracts*
1345 - 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

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