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COURSE OVERVIEW NE0005 Introduction to Renewable Energy Technologies

Course Title

Introduction Technologies Renewable

(30 PDHs)

Course Date/Venue Please see page 3

Course Reference NE0005

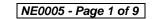
<u>Course Duration/Credits</u> Five days/3.0 CEUs/30 PDHs

Course Description









NE0005-05-25|Rev.09|16 April 2025



This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-theart simulators.

This course is designed to provide participants with a detailed and up-to-date overview of Introduction to Renewable Energy Technologies. It covers the differences between renewable and non-renewable energy sources; the types of renewable energy, the need for renewable energy and key drivers of renewable energy adoption; the global renewable energy trends, energy storage systems and principles of solar energy; the photovoltaic (PV) systems, solar thermal systems, solar energy applications and design and sizing of solar energy systems; the challenges in solar energy adoption as well as wind energy, basic working principle of wind turbines and onshore and offshore wind farms; and the wind energy applications and storage, wind turbine design considerations and challenges and future of wind energy.

During this interactive course, participants will learn the Identify bioenergy, biomass conversion technologies, ethanol, biodiesel, and advanced biofuels and geothermal energy; the geothermal exploration and drilling, bioenergy and geothermal energy challenges and energy storage for renewables; the components of smart grids, smart meters, sensors, and communication technologies, demand response and grid optimization and benefits and challenges of smart grid integration; the grid balancing and management, grid stability and reliability with intermittent renewable sources; and the role of policy and regulation in renewable energy and the future of renewable energy technologies.





Course Objectives

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

- Apply and gain a basic knowledge on renewable energy technologies
- Discuss the differences between renewable and non-renewable energy sources
- Identify the types of renewable energy, the need for renewable energy and key drivers of renewable energy adoption
- Explain global renewable energy trends, energy storage systems and principles of solar energy
- Recognize photovoltaic (PV) systems, solar thermal systems, solar energy applications and design and sizing of solar energy systems
- Discuss the challenges in solar energy adoption as well as wind energy, basic working principle of wind turbines and onshore and offshore wind farms
- Recognize wind energy applications and storage, wind turbine design considerations and challenges and future of wind energy
- Identify bioenergy, biomass conversion technologies, ethanol, biodiesel, and advanced biofuels and geothermal energy
- Determine geothermal exploration and drilling, bioenergy and geothermal energy challenges and energy storage for renewables
- Identify the components of smart grids, smart meters, sensors, and communication technologies, demand response and grid optimization and benefits and challenges of smart grid integration
- Apply grid balancing and management and discuss grid stability and reliability with intermittent renewable sources
- Identify the role of policy and regulation in renewable energy and the future of renewable energy technologies

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 renewable energy technologies for energy managers, engineers, technologists and technicians active in the energy sector. Architects, planners, developers, government and local authority staff will also find this course very useful.



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Course Date/Venue

Session(s)	Date	Venue
1	May 12-16, 2025	Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
2	August 24-28, 2025	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE
3	October 06-10, 2025	Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
4	December 07-11, 2025	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

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: -

- *** • BAC
- 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.



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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. Karl Thanasis, PEng, MSc, MBA, BSc, is a Senior Engineer with over 30 years of practical experience within the Energy Sectors. His wide expertise includes Nuclear Power Plant, Renewable Energy, Solar Energy, Thermal Energy, Engineering Drawings, Codes & Standards, P&ID Reading, Interpretation & Developing, Drawing Interpretation, Oil & Gas Field Commissioning, Start-Up & Troubleshooting, Oil Field

Operations & Water Treatment, Process Plant Performance & Efficiency, Water Testing, Wastewater Treatment Technology, Industrial Water Treatment in Refineries & Petrochemical Plants, Piping System, Water Movement, Water Filtering, Mud Pumping, Sludge Treatment and Drying, Aerobic Process of Water Treatment that includes Aeration, Sedimentation and Chlorination Tanks. His strong background also includes Design and Sizing of all Waste Water Treatment Plant Associated Equipment such as Sludge Pumps, Filters, Metering Pumps, Aerators and Sludge Decanters.

Mr. Thanasis has acquired his thorough and practical experience as the **Project** Manager, Plant Manager, Area Manager - Equipment Construction, Construction Superintendent, Project Engineer and Design Engineer. His duties covered Plant Preliminary Design, Plant Operation, Write-up of Capital Proposal, Investment Approval, Bid Evaluation, Technical Contract Write-up, Construction and Sub-contractor Follow up, Lab Analysis, Sludge Drying and Management of Sludge Odor and Removal. He has worked in various companies worldwide in the USA, Germany, England and Greece.

Mr. Thanasis is a **Registered Professional Engineer** in the **USA** and **Greece** and has a **Master** and **Bachelor** degrees in **Mechanical Engineering** with **Honours** from the **Purdue University** and **SIU** in **USA** respectively as well as an **MBA** from the **University of Phoenix** in **USA**. Further, he is a **Certified Instructor/Trainer**.

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.



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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% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

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 workshop 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 Introduction to Renewable Energy Definition & Importance • Differences Between Renewable & Non-Renewable Energy Sources • Types of Renewable Energy (Solar, Wind, Hydro, Geothermal, Biomass) • Global Transition to Renewable Energy 0930 - 0945 Break 0945 - 1030 Renewable Energy Environmental Benefits • Climate Change & Sustainability • Global Energy Demand versus Supply • Fossil Fuel Depletion 1030 - 1130 Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy 1130 - 1215 Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy 1230 - 1330 Break 1330 - 1420 Inte Need for Energy Storage Systems 1420 - 1430 Ine Need for Energy Storage Systems 1420 - 1430 Lunch & End of Day One	Day 1		
0815 - 0830 PRE-TEST 0830 - 0930 Introduction to Renewable Energy Definition & Importance • Differences Between Renewable & Non-Renewable Energy Sources • Types of Renewable Energy (Solar, Wind, Hydro, Geothermal, Biomass) • Global Transition to Renewable Energy 0930 - 0945 Break The Need for Renewable Energy Demand versus Supply • Fossil Fuel Depletion 1030 - 1130 Renewable Energy Technologies: An Overview Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy 1130 - 1215 Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy 1230 - 1330 Break 1230 - 1330 Global Renewable Energy Trends Current Global Market Share of Renewable Energy Adoption • Investment Trends in Renewable Technologies • Challenges in Scaling Renewable Energy 1330 - 1420 Basics of Energy Storage Systems 1330 - 1420 The Need for Energy Storage in Renewable Energy Systems • Types of Energy Storage Questems (Batteries, Pumped Hydro Storage) • Challenges in Energy Storage Case Studies of Energy Storage Projects 1420 - 1430 Wing this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0730 – 0800	Registration & Coffee	
10301030Introduction to Renewable Energy Definition & Importance • Differences Between Renewable & Non-Renewable Energy Sources • Types of Renewable Energy (Solar, Wind, Hydro, Geothermal, Biomass) • Global Transition to Renewable Energy0930 - 0945Break0945 - 1030The Need for Renewable Energy Environmental Benefits • Climate Change & Sustainability • Global Energy Demand versus Supply • Fossil Fuel Depletion1030 - 1130Renewable Energy Technologies: An Overview Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy1130 - 1215Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy1230 - 1330Break1330 - 1420Global Renewable Energy Trends Current Global Market Share of Renewable Energy Storage Systems The Need for Energy Storage Projects1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0800 - 0815	Welcome & Introduction	
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The Need for Renewable Energy Environmental Benefits • Climate Change & Sustainability • Global Energy Demand versus Supply • Fossil Fuel Depletion1030 - 1130Renewable Energy Technologies: An Overview Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy1130 - 1215Key Drivers of Renewable Energy Adoption Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy1215 - 1230Break1230 - 1330Global Renewable Energy Trends Current Global Market Share of Renewable Energy • Leading Countries in Renewable Energy Adoption • Investment Trends in Renewable Technologies • Challenges in Scaling Renewable Energy1330 - 1420Basics of Energy Storage Systems The Need for Energy Storage in Renewable Energy Systems • Types of Energy Storage • Case Studies of Energy Storage Projects1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0830 - 0930	Definition & Importance • Differences Between Renewable & Non-Renewable Energy Sources • Types of Renewable Energy (Solar, Wind, Hydro,	
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1030 - 1130Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy1130 - 1215Key Drivers of Renewable Energy Adoption Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy1215 - 1230Break1230 - 1330Global Renewable Energy Trends Current Global Market Share of Renewable Energy • Leading Countries in Renewable Energy Adoption • Investment Trends in Renewable Technologies • Challenges in Scaling Renewable Energy1330 - 1420Basics of Energy Storage Systems The Need for Energy Storage in Renewable Energy Storage) • Challenges in Energy Storage • Case Studies of Energy Storage Projects1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0945 - 1030	Environmental Benefits • Climate Change & Sustainability • Global Energy	
1130 - 1215Government Policies & Incentives • Technological Advancements • Market Forces & Energy Prices • Public Perception & Demand for Green Energy1215 - 1230Break1230 - 1330Global Renewable Energy Trends Current Global Market Share of Renewable Energy • Leading Countries in Renewable Energy Adoption • Investment Trends in Renewable Technologies • Challenges in Scaling Renewable Energy1330 - 1420Basics of Energy Storage Systems The Need for Energy Storage in Renewable Energy Systems • Types of Energy Storage • Case Studies of Energy Storage Projects1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	1030 - 1130	Solar Power • Wind Energy • Biomass Energy • Hydropower & Geothermal Energy	
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1330 - 1420The Need for Energy Storage in Renewable Energy Systems • Types of Energy Storage Systems (Batteries, Pumped Hydro Storage) • Challenges in Energy Storage • Case Studies of Energy Storage Projects1420 - 1430 Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	1230 - 1330	Current Global Market Share of Renewable Energy • Leading Countries in Renewable Energy Adoption • Investment Trends in Renewable Technologies •	
1420 - 1430Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	1330 - 1420	The Need for Energy Storage in Renewable Energy Systems • Types of Energy Storage Systems (Batteries, Pumped Hydro Storage) • Challenges in Energy	
1430 Lunch & End of Day One		Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	
	1430	Lunch & End of Day One	



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Day 2

Principles of Solar Energy The Solar Energy Resource: Solar Radiation	(A + 1)	
0730 – 0830 Conversion Methods • Solar Thermal versus P Role of the Sun in Energy Generation		
Photovoltaic (PV) SystemsBasic Working Principle of Photovoltaic Col0830 – 0930Technologies (Monocrystalline, Polycrystalline, of PV Systems (Panels, Inverters, Charge Performance Factors	Thin Film) • Key Components	
0930 – 0945 Break	Break	
0945 – 1100 Solar Thermal Systems Solar Thermal Collectors: Flat Plate, Evacuated Plants (Concentrated Solar Power) • Heat Applications in Industry & Residential Use		
Solar Energy Applications1100 – 1215Off-Grid & On-Grid Solar Systems • Residen Applications • Solar Water Heating • Solar-Pour		
1215 – 1230 Break		
Design & Sizing of Solar Energy Systems1230 – 1330Calculating Energy Requirements • Sizing SolaIntegration & Optimization • Safety Standards	0	
Challenges in Solar Energy Adoption1330 – 1420Intermittency & Energy Storage • Land Use & Barriers & Funding Options • Environmental In		
Recap1420 – 1430Using this Course Overview, the Instructor(s) was that were Discussed Today and Advised Today and Advised Tomorrow		
1430 Lunch & End of Day Two		

Dav 3

Day 3		
0730 - 0830	Speed & Availability • Wind Turbines: Types & Configurations • Global Wind	
0830 - 0930	Energy Market TrendsBasic Working Principle of Wind TurbinesAerodynamics of Wind Turbines • Conversion of Wind Energy to MechanicalEnergy • Gearboxes, Generators & Control Systems • Efficiency &Performance Optimization	
0930 - 0945	Break	
0945 - 1100	Onshore & Offshore Wind Farms Differences Between Onshore & Offshore Wind Power • Site Selection Criteria for Wind Farms • Environmental Impact Assessments • Economic Viability & Cost-Benefit Analysis	
1100 – 1215	Wind Energy Applications & Storage Integrating Wind Energy into the Power Grid • Storage Options for Wind Energy (Batteries, Pumped Storage) • Hybrid Systems (Wind & Solar) • Off- Grid & Rural Applications	
1215 - 1230	Break	



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1230 - 1330	Wind Turbine Design ConsiderationsBlade Design & Materials • Turbine Sizing & Scaling • Control Systems &Grid Integration • Operation & Maintenance Best Practices	
1330 – 1420	Challenges & Future of Wind Energy Variability & Intermittency of Wind • Noise & Wildlife Concerns • Technological Innovations (E.G., Floating Wind Turbines) • Political & Regulatory Challenges	
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	
1430	Lunch & End of Day Three	

Day 4

Basics of BioenergyDefinition & Types of Bioenergy (Biofuels, Biogas, Biomass) • The Role ofBiomass in Renewable Energy • Biomass Feedstocks & Sources (Agriculture,Forestry, Waste) • Carbon-Neutral Properties of Bioenergy	
Biomass Conversion Technologies Direct Combustion & Co-Firing • Gasification & Pyrolysis • Anaerobic Digestion & Biogas Production • Biomass-To-Liquid (BTL) Technologies	
Break	
Biofuels: Ethanol, Biodiesel & Advanced Biofuels Production Methods for Biofuels • First, Second & Third-Generation Biofuels • Benefits & Challenges of Biofuels • Biofuels in Transportation & Industrial Sectors	
Basics of Geothermal Energy Geothermal Resources: Types & Locations • Geothermal Power Plants: Flash, Binary & Dry Steam Systems • Applications of Geothermal Energy (Heating, Cooling, Electricity Generation) • Environmental & Economic Aspects of Geothermal Energy	
Break	
<i>Geothermal Exploration & Drilling</i> <i>Geothermal Reservoir Management • Exploration Techniques (Geophysical Surveys, Drilling) • Challenges in Geothermal Energy Extraction • Case Studies of Successful Geothermal Projects</i>	
Bioenergy & Geothermal Energy Challenges Sustainability & Resource Availability • Land & Water Use Considerations • Environmental & Social Impacts • Policy & Regulatory Barriers	
Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	
Lunch & End of Day Four	



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Day 5 Energy Storage for Renewables *The Role of Energy Storage in Renewable Energy Systems* • *Types of Storage:* Mechanical, Electrical & Chemical • Battery Technologies (Li-Ion, Flow 0730 - 0830 Batteries, Solid-State Batteries) • Emerging Trends in Energy Storage Solutions Smart Grids & their Role in Renewable Energy Definition & Components of Smart Grids • Smart Meters, Sensors & 0830 - 0930 Communication Technologies • Demand Response & Grid Optimization • Benefits & Challenges of Smart Grid Integration 0930 - 0945 Break Integrating Renewables into the Grid Grid Balancing & Management • The Role of Virtual Power Plants • Grid 0945 - 1040Stability & Reliability with Intermittent Renewable Sources • Case Studies of Grid Integration The Role of Policy & Regulation in Renewable Energy Government Incentives & Subsidies • Renewable Energy Targets & 1040 - 1135Regulations • International Cooperation on Renewable Energy • Future Trends in Renewable Energy Policy Future of Renewable Energy Technologies Emerging Technologies: Wave Energy, Tidal Energy & Hydrogen •Innovations 1135 - 1230 in Materials (Solar Cells, Wind Turbine Blades) • Decentralized Energy Production & Microgrids • Future Projections for Renewable Energy Adoption Break 1230 - 1245 Career Opportunities & Challenges in Renewable Energy Skills Required for the Renewable Energy Workforce • Opportunities in Design, Operation & 1245 - 1345 Maintenance • Job Trends & Growth Areas in the Renewable Energy Sector • The Role of Education & Training in Advancing Renewable Technologies **Course Conclusion** 1345 - 1400 Using this Course Overview, the Instructor(s) will Brief Participants about the *Course Topics that were Covered During the Course* 1400 - 1415 POST-TEST 1415 - 1430 Presentation of Course Certificates 1430 Lunch & End of Course



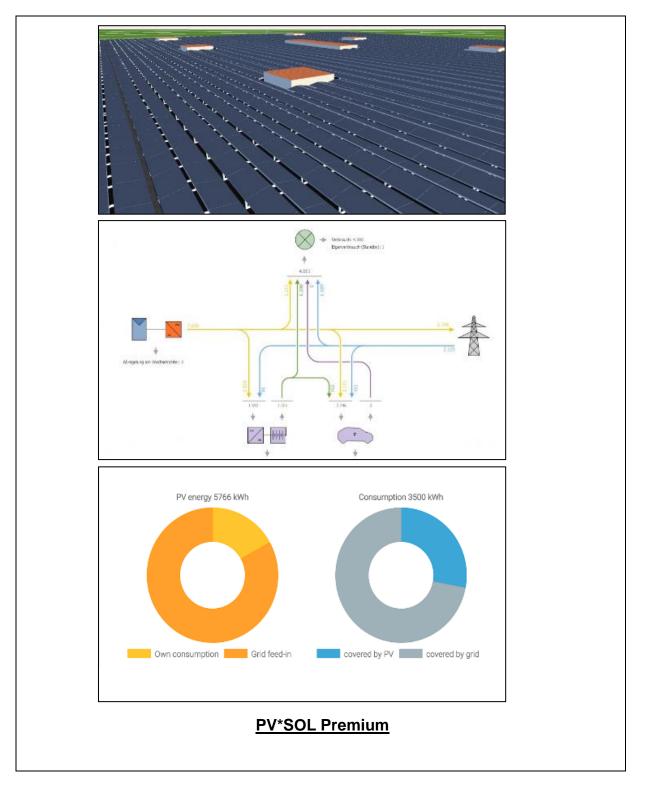
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Simulators (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art simulator "PV*SOL Premium".



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org



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