4th IET International Conference on Clean Energy and Technology CEAT 2016

Level 3, Pullman Kuala Lumpur Bangsar Hotel

14 - 15 November 2016 (Monday & Tuesday)

		(A) STUDIO 9	(B) STUDIO 10	(C) STUDIO 8
14th Nov. (Monday)	Session 1 Presentation 2:00 pm – 3:15 pm	5* Advances in Power Converters for PV Solar	5* Energy Policy and Education	5* Energy Conversion, Delivery and Storage
	Session 2 Presentation 3:30 pm – 5:00 pm	6* Generation, Transmission and Distribution	6* Energy in Buildings and Cities	6* Energy Conversion, Delivery and Storage
15th Nov. (Tuesday)	Session 3 Presentation 9:00 am – 11:00 am	8* Generation, Transmission and Distribution	8* Renewable and Sustainable Energy	8* Energy Conversion, Delivery and Storage
	Session 4 Presentation 11:15 am – 1:00 pm	6* Advances in Power Converters for PV Solar	7* Advances in Micro grid Technologies	7* Other
	Session 5 Presentation 2:30 pm – 3:45 pm	5* Advances in Electrical Machines and Drives	5* Renewable and Sustainable Energy	5* Other
	Session 6 Presentation 4:00 pm – 5:30 pm	6* Advances in Electrical Machines and Drives	6* Renewable and Sustainable Energy	6* Other

Legend:

Renewable and Sustainable Energy	Advances in Electrical Machines and Drives
Energy Conversion, Delivery and Storage	Advances in Power Converters for PV Solar
Other	Advances in Microgrid Technologies
Generation, Transmission and Distribution	Energy Policy and Educations
Energy in Buildings and Cities	

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 1A 14th Nov. 2016 Studio Room 9	14:00 - 14:15	**1570307771**	Inverting Nx and 2Nx Non-Isolated Multilevel Boost Converter For Renewable Energy Application	SS2: Advances in Power Converters for PV Solar	Sagar Mahajan (Vellore Institute of Technology, India); Padmanabhan Sanjeevikumar (Ohm Technologies, India); Frede Blaabjerg (Aalborg University, Denmark); Ojo Joseph (Tennessee Tech University, USA); Sridhar Seshagiri (San Diego State University, USA); Rishi Kulkarni (Marathwada Institute of Technology, India)
	14:15 - 14:30	**1570307233**	Volume Reduction Consideration in multilevel DC-DC Boost Converter	Other	Asmarashid Ponniran (Universiti Tun Hussein Onn Malaysia, Malaysia); Afarulrazi Abu Bakar (University Tun Hussein Onn Malaysia, Malaysia); Wahyu Mulyo Utomo and Muhammad Saufi Kamarudin (Universiti Tun Hussein Onn Malaysia, Malaysia)
	14:30 - 14:45	**1570305177**	Comparative Performance of Multilevel Inverter for Harmonic Reduction Based on Newton Raphson	Energy Conversion, Delivery and Storage	Mohammed Rasheed (University Teknikal Malaysia Melaka, Malaysia); Rosli Omar (Technical University of Malaysia Malacca, Malaysia); Marizan Sulaiman (Universiti Teknikal Malaysia Melaka, Malaysia)
	14:45 - 15:00	**1570307957**	Novel LY Converter Topologies for High Gain Transfer Ratio -A New Breed of XY Family	SS2: Advances in Power Converters for PV Solar	Sagar Mahajan (Vellore Institute of Technology, India); Padmanabhan Sanjeevikumar (Ohm Technologies, India); Rishi Kulkarni (Marathwada Institute of Technology, India); Frede Blaabjerg (Aalborg University, Denmark); Sridhar Seshagiri (San Diego State University, USA); Amin Hajizadeh (Aalborg University, Denmark)
	15:00 - 15:15	**1570305909**	Microcontroller based Battery Controller for Peak Shaving Integrated with Solar Photovoltaic	Energy Conversion, Delivery and Storage	Kumuthawathe Ananda-Rao (University Malaysia Perlis, Malaysia); Rosnazri Ali (Universiti Malaysia Perlis, Malaysia); Steven Taniselass and Indra Nisja (University Malaysia Perlis, Malaysia); Nor Hanisah Baharudin (Universiti Malaysia Perlis, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 1B 14th Nov. 2016 Studio Room 10	14:00 - 14:15	**1570306753**	Firefly Algorithm for Solving Non-Convex Economic Load Dispatch Problem	Generation, Transmission and Distribution	Mohd Noor Abdullah, Mohd Aifaa Mohd Ariff and Arif Amzar Ali (Universiti Tun Hussein Onn Malaysia, Malaysia)
	14:15 - 14:30	**1570306488**	Electric Energy Consumption Forecasting via Expression-driven Approach	Energy Policy and Education	Seyed Hamidreza Aghay kaboli (University Malaya (UM) & UMPEDAC, Malaysia); Alireza Fallahpour and Nima Kazemi (Faculty of Engineering, University of Malaya, Malaysia); Jeyraj Selvaraj (Universiti Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	14:30 - 14:45	**1570307562**	Viability of On-Grid Residential PV Systems in Southwest Kazakhstan. Case: Mangystau Region	Renewable and Sustainable Energy	Zhanar Zamayeva, Nargiz Khairlybayeva and Zhibek Temirbekova (School of Engineering, Nazarbayev University); Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan)
	14:45 - 15:00	**1570307065**	Sectoral Structure and Energy Use in Kazakhstan's Regions	Other	Meruyert Kazmaganbetova, Bakytzhan Suleimenov and Kaiyrbek Ayashev (National Laboratory Astana, Kazakhstan); Aiymgul Kerimray (School of Engineering, Nazarbayev University & National Laboratory Astana, Nazarbayev University, Kazakhstan)
	15:00 - 15:15	**1570307945**	Fuzzy logic energy management system of series hybrid electric vehicle	Renewable and Sustainable Energy	Saiful Hakim Che Mood @ Mahyiddin, Mohd Rusllim Mohamed, Zuriani Mustaffa, Ai Chia Khor and Mohd Herwan Sulaiman (Universiti Malaysia Pahang, Malaysia); Hamzah Ahmad (University Malaysia Pahang, Malaysia); Salisa Abdul Rahman (Universiti Malaysia Terengganu, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 1C 14th Nov. 2016 Studio Room 8	14:00 - 14:15	**1570292831**	Control Strategies for Energy Storage System in Standalone Power Systems	Energy Conversion, Delivery and Storage	Eu-Tjin Chok, Kein Huat Chua and Yun Seng Lim (Universiti Tunku Abdul Rahman, Malaysia)
	14:15 - 14:30	**1570303462**	Evaluation of Piezoelectric Energy Harvester Outcomes in Road Traffic Applications	Energy Conversion, Delivery and Storage	Saleh Gareh, Kok Boon Ching and Chessda Uttraphan (Universiti Tun Hussein Onn Malaysia, Malaysia); Kok Tung Thong (University Tun Hussein Onn Malaysia, Malaysia); Abdoulhdi Borhana (Universiti Tenaga Nasional & Sebah University, Malaysia)
	14:30 - 14:45	**1570292856**	Design and Implementation of a Stand-Alone Micro-Inverter with Push-Pull DC/DC Power Converter	Energy Conversion, Delivery and Storage	Ahmad Rivai, Nasrudin Abd. Rahim, Mohamad Fathi Mohamad Elias and Jafferi Jamaludin (University of Malaya, Malaysia); Febry Yadi Zainal (UMPEDAC & University of Malaya, Malaysia); Oon Erixno (University of Malaya, Malaysia)
	14:45 - 15:00	**1570304024**	Reduction of Harmonic using Single Phase Shunt Active Filter based on FFT Method for	Energy Conversion, Delivery and Storage	Musa Yusup Lada, Chin Kim Gan, Johar Akbar Mohamat Gani, Mohamad Riduwan Md Nawawi and Nur Izzati Zolkifri (Universiti Teknikal Malaysia Melaka, Malaysia)
	15:00 - 15:15	**1570299474**	Frequency Regulation Mechanism of Energy Storage System for the Power Grid	Energy Conversion, Delivery and Storage	Zhi Xuan Tang and Yun Seng Lim (Universiti Tunku Abdul Rahman, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 2A 14th Nov. 2016 Studio Room 9	15:30 - 15:45	**1570290499**	An Application of Moth-Flame Optimization Algorithm for Solving Optimal Reactive Power Dispatch	Generation, Transmission and Distribution	Mohd Herwan Sulaiman, Zuriani Mustaffa, Omar Aliman, Hamdan Daniyal and Mohd Rusllim Mohamed (Universiti Malaysia Pahang, Malaysia)
	15:45 - 16:00	**1570309991**	Solution Techniques for Optimal Power Dispatch Problems- A Review	Generation, Transmission and Distribution	Seyed Mahdi Moosavian and Mostafa Modiri Delshad (University of Malaya, Malaysia); Jeyraj Selvaraj (Universiti Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	16:00 - 16:15	**1570306446**	High Voltage Characteristics of Kraft Paper Insulator with Effect of Palm Oil and Coconut Oil	Generation, Transmission and Distribution	Nor Afiqah Mohd Ishak (Universiti Tun Hussein Onn Malaysia, Malaysia); Nor Akmal Mohd Jamail (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor); Nordiana Azlin Othman (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia)
	16:15 - 16:30	**1570306980**	Short-circuit analysis for the 11kV distribution system with the integration of IBDG	Generation, Transmission and Distribution	Chia Shen Teo (UMPEDAC, University of Malaya, Malaysia); Jorinda Yuh Ru Wong (UMPEDAC, University of Malaya); ChiaKwang Tan (UMPEDAC, University of Malaya, Malaysia); A. B. Halim Abu Bakar (UMPEDAC, University of Malaya); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	16:30 - 16:45	**1570304582**	Third Harmonic Current Contribution from Synchronous Generator with Filtering during Ground Fault	Generation, Transmission and Distribution	Nur Iylia Shah Riman and Mohd Faris Abdullah (Universiti Teknologi PETRONAS, Malaysia); Mohd Fakhizan Romlie (Universiti Teknologi PETRONAS & Universiti Teknologi PETRONAS, Malaysia); Zuhairi Baharudin (Universiti Teknologi PETRONAS, Malaysia)
	16:45 - 17:00	**1570307729**	Effects of Broken Glass Insulator on Charge Distribution along Insulator Strings	Generation, Transmission and Distribution	Nordiana Azlin Othman (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia); M. Afendi M. Piah (Universiti Teknologi Malaysia & Institute of High Voltage and High Current, Malaysia); Zuraimy Adzis (Universiti Teknologi Malaysia, Malaysia); Nor Akmal Mohd Jamail (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 2B 14th Nov. 2016 Studio Room 10	15:30 - 15:45	**1570306251**	Transient simulation of buried pipe residential heating system using solar energy	Energy in Buildings and Cities	Ak Pandey (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); Sanjeev Anand (Shri Mata Vaishno Devi University, Katra, India)
	15:45 - 16:00	**1570306582**	Energy efficiency options for buildings: insights from buildings energy audit reports in Kazakhstan	Energy in Buildings and Cities	Aiymgul Kerimray (School of Engineering, Nazarbayev University & National Laboratory Astana, Nazarbayev University, Kazakhstan); Ramil Bektineyev (National Laboratory Astana, Nazarbayev University, Kazakhstan); Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan)
	16:00 - 16:15	**1570306999**	An effective optimization of rainwater harvesting system in hotel and hospital buildings	Energy in Buildings and Cities	Mohammad Nasif (Universiti Teknologi PETRONAS, Malaysia); Ganesh Kumar (UniversitiTeknologi PETRONAS, Malaysia); Rozanna Roslan (PETRONAS Carigali Sdn. Bhd., Malaysia)
	16:15 - 16:30	**1570307035**	Ground-Source HEat Pump Cooling Systems in Temperate Cities. Case Study: Mexico City	Energy in Buildings and Cities	Alejandra Gomez-Campos, Prachi Ajoy Hardikar, Marsha Niken Prabandani and Andres Felipe Osorio-Silva (École des Mines de Nantes, France); Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan)
	16:30 - 16:45	**1570307951**	Wireless PIR & D6T Thermal Sensor Based Lighting & Air-conditioning Control Device for Building	Energy in Buildings and Cities	Norhafidzah Mohd Saad and Mohammad Fadhil Abas (Universiti Malaysia Pahang, Malaysia); Dwi Pebrianti (FKEE, University Malaysia Pahang, Malaysia)
	16:45 - 17:00	**1570308066**	Viability of Energy Efficiency Measures in Resort Buildings-Case Study: Mazatlan, Mexico	Energy in Buildings and Cities	Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan); Kartik Arun Hari, Jeonghui Min, Ivan Cordero and Maria Romero (Ecole des Mines de Nantes, France)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 2C 14th Nov. 2016 Studio Room 8	15:30 - 15:45	**1570306596**	Feasibility Studies on Virtual Power Plant in India	Energy Conversion, Delivery and Storage	Jeyraj Selvaraj (Universiti Malaya, Malaysia); Giridhar Godugunur and Prasun Kumar Das (National Institute of Wind Energy, India); A. Mohamed Hussain (NIWE, Malaysia); S. Gomathinayagam (NIWE, India); Carlos Giron (Oldenburg University, Germany); Indradip Mitra (GIZ, India); A. K. Snekalatha (NIWE, Malaysia)
	15:45 - 16:00	**1570308011**	Design and Development of Vanadium Redox Flow Battery (V-RFB) Cell Stack	Renewable and Sustainable Energy	Nurizzati Md Nizam, Muhamad Hafiz Zulkhifli, Ai Chia Khor, Mohd Rusllim Mohamed and Mohd Herwan Sulaiman (Universiti Malaysia Pahang, Malaysia)
	16:00 - 16:15	**1570307084**	Comparison of Lead-Acid and Lithium Ion Batteries for Stationary Storage in Off-Grid Energy Systems	Energy Conversion, Delivery and Storage	Hardik Keshan (PEC University of Technology, India); Jesse Thornburg (Carnegie Mellon University, USA); Taha Selim Ustun (Carnegie-Mellon University, USA)
	16:15 - 16:30	**1570300863**	Cost Analysis of Battery-Supercapacitor Hybrid Energy Storage System for Standalone PV Systems	Energy Conversion, Delivery and Storage	Wenlong Jing (Swinburne University of Technology Sarawak Campus & Swinburne University of Technology, P.R. China); Chean Hung Lai, Wallace Wong and M. L. Dennis Wong (Swinburne University of Technology Sarawak Campus, Malaysia)
	16:30 - 16:45	**1570308004**	Method Approaches to prevent leakage cell stack of Vanadium Redox Flow Battery (VRFB)	Renewable and Sustainable Energy	Suhailah Sujali (University Malaysia Pahang, Malaysia); Mohd Rusllim Mohamed (Universiti Malaysia Pahang, Malaysia)
	16:45 - 17:00	**1570306449**	Development of Wireless Electricity Transmission through Resonant Coupling	Energy Conversion, Delivery and Storage	Fatin Noratika Ibrahim (Universiti Tun Hussein Onn Malaysia, Malaysia); Nor Akmal Mohd Jamail and Nordiana Azlin Othman (Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 3A 15th Nov. 2016 Studio Room 9	9:00 - 9:15	**1570301614**	Analysis of TCSC Controller of Transmission System Using PSCAD Software	Generation, Transmission and Distribution	Siti Amely Jumaat, Shamsul Zulkifli and Nuraimisyahira Abdul Rahim (Universiti Tun Hussein Onn Malaysia, Malaysia)
	9:15 - 9:30	**1570304079**	Study of Voltage and Power Stability Margins of Electrical Power System Using ANN	Generation, Transmission and Distribution	Ahmad Fateh Mohamad Nor (Universiti Teknikal Malaysia Melaka (UTeM), Malaysia); Marizan Sulaiman (Universiti Teknikal Malaysia Melaka, Malaysia); Rosli Omar (Technical University of Malaysia Malacca, Malaysia)
	9:30 - 9:45	**1570304090**	Design and development of an innovative smart metering system with GUI-based NTL detection platform	Generation, Transmission and Distribution	Keh Kim Kee (University College of Technology Sarawak, Malaysia); Syed Mohamad Fauzi Shahab (Ministry of Public Utilities Sarawak, Malaysia); Cheng Jun Loh (University College of Technology Sarawak, Malaysia)
	9:45 - 10:00	**1570307042**	Performance Analysis of Machine Learning Algorithms for Power System Dynamic Security Assessment	Generation, Transmission and Distribution	Qusay Al-Gburi and Mohd Aifaa Mohd Ariff (Universiti Tun Hussein Onn Malaysia, Malaysia); Ibrahim Saeh (University Teknologi Malaysia, Malaysia)
	10:00 - 10:15	**1570305350**	Validation of Steady-State Stability Evaluation Exerting with Dimo's Approximation	Generation, Transmission and Distribution	Hui Hwang Goh (Universiti Tun Hussein Onn Malaysia, Malaysia); Qing Shi Chua (Univerisiti Tun Hussein Onn Malaysia, Malaysia); Chin Wan Ling and Kai Chen Goh (Universiti Tun Hussein Onn Malaysia, Malaysia); Indar Chaerah Gunadin (Hasanuddin University, Indonesia)
	10:15 - 10:30	**1570307663**	Large Inertia-less Photovoltaic (PV) Penetration Impact on the Rotor Angle Stability	Generation, Transmission and Distribution	Muthu Kumaran Gunasegaran (Universiti Malaya, Malaysia); ChiaKwang Tan (UMPEDAC, University of Malaya, Malaysia); A. B. Halim Abu Bakar (University of Malaya, Malaysia)
	10:30 - 10:45	**1570308079**	An approach for estimating winding deformation using frequency response analysis	Other	Mohd Fairouz Mohd Yousof and Mohd Khairul Azree Uyup (Universiti Tun Hussein Onn Malaysia, Malaysia)

	10:45 - 11:00	**1570307736**	Simulation of Electric Field Properties for Air Breakdown using COMSOL Multiphysics	Other	Muhammad Saufi Kamarudin, Nur Hanis Mohammad Radzi and Asmarashid Ponniran (Universiti Tun Hussein Onn Malaysia, Malaysia); Rahisham Abd. Rahman (Universiti Tun Hussein Onn, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 3B 15th Nov. 2016 Studio Room 10	9:00 - 9:15	**1570298003**	Theoretical Analysis of Multi-Energy Generation in a Solar Energy System	Renewable and Sustainable Energy	Afshin Aslian and Chin Joo Tan (University Malaya, Malaysia); Kok-Keong Chong (Universiti Tunku Abdul Rahman, Iran); Alireza Toloei (Shahid Beheshti University, Iran)
	9:15 - 9:30	**1570303608**	Comparative study of P&O and modified incremental conductance algorithm in solar MPP	Renewable and Sustainable Energy	Meng Chung Tiong, Hamdan Daniyal, Mohd Herwan Sulaiman and Mohd Shafie Bakar (Universiti Malaysia Pahang, Malaysia)
	9:30 - 9:45	**1570303685**	A Comprehensive Modelling of Photovoltaic Module Characteristic Curve in MATLAB/Simulink	Renewable and Sustainable Energy	Rodney H.G. Tan (UCSI University, Malaysia); Matthew Teow Yok Wooi (KDU University College, Malaysia)
	9:45 - 10:00	**1570304103**	Dynamics Study of Photovoltaic Power Plant Connected Malaysian Grid under Different Fault Conditions	Renewable and Sustainable Energy	Ali Q. Al-Shetwi (University Malaysia Pahang, Malaysia)
	10:00 - 10:15	**1570306365**	Comparative study of cracks in mono and multicrystalline photovoltaic modules	Renewable and Sustainable Energy	Ak Pandey and N. Yusof (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	10:15 - 10:30	**1570306988**	Modified Incremental Conductance MPPT with direct control and dual scaled adaptive step-size method	Renewable and Sustainable Energy	Nasrudin Abdul Rahim (University Malaya, Malaysia); Aamir Amir (UMPEDAC & University of Malaya, Malaysia); Asim Amir Solangi and Jeyraj Selvaraj (Universiti Malaya, Malaysia)
	10:30 - 10:45	**1570306986**	Study the feasibility of a hybrid renewable energy system for power generation in Seri Iskandar	Renewable and Sustainable Energy	Behzad Partoon and Morteza Khalaji Assadi (Universiti Teknologi PETRONAS, Malaysia); Mitra Saeedi (Asia Pacific University of Technology and Innovation, Malaysia)

	10:45 - 11:00	**1570307012**	Comparative Performance Analysis of MPPT for Large Scale Photovoltaic System	Renewable and Sustainable Energy	Md Zakir Hossain (UM Power Energy Dedicated Advanced Centre (UMPEDAC) & University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); Jeyraj Selvaraj (Universiti Malaya, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 3C 15th Nov. 2016 Studio Room 8	9:00 - 9:15	**1570306011**	Buck-boost chopper for DC capacitor voltage balancing in switch-sharing-based inverter	Energy Conversion, Delivery and Storage	Zalifah Ramli and Jafferi Jamaludin (University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	9:15 - 9:30	**1570307595**	Harmonic Minimization of a Three Phase Cascaded H-Bridge Multilevel Inverters	Energy Conversion, Delivery and Storage	NorSyuhada Nordin, Syuhada (Universiti Teknikal Malaysia Melaka, Malaysia); Rosli Omar (Technical University of Malaysia Malacca, Malaysia); Mohammed Rasheed (University Teknikal Malaysia Melaka, Malaysia); Afiqah Sabari (Universiti Teknikal Malaysia Melaka, Malaysia); Krismadinata Krismadinata (Universitas Negeri Padang Indonesia, Indonesia)
	9:30 - 9:45	**1570306013**	Three-level Hybrid Boost Converter with High Voltage Gain	Energy Conversion, Delivery and Storage	Norhassanah Osman and Mohamad Fathi Mohamad Elias (University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	9:45 - 10:00	**1570306203**	Comparative Study of DC-DC Converters for Fuel Cell Vehicle	Energy Conversion, Delivery and Storage	Nik Nor Laily Nik A Rasid (University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); Siti Rohani Sheikh Raihan (Universiti Malaya, Malaysia)
	10:00 - 10:15	**1570305478**	Design and Analysis of Three Phase Series Active Power Filter (SAPF) Based On Hysteresis Controller	Energy Conversion, Delivery and Storage	Hadi Hashim (University Teknikal Malaysia Melaka, Malaysia); Rosli Omar (Technical University of Malaysia Malacca, Malaysia); Mohammed Rasheed (University Teknikal Malaysia Melaka, Malaysia); Amri Rahman (Universiti Teknologi MARA Kelantan)
	10:15 - 10:30	**1570307032**	Performance analysis of PR current controller for single-phase inverters	Energy Conversion, Delivery and Storage	Mohammad Parvez, Mohamad Fathi Mohamad Elias and Nasrudin Bin Abd Rahim (University of Malaya, Malaysia)

	10:30 - 10:45	**1570307993**	Gain and Efficiency Analysis of 2-Stage Switched Capacitor (SC) Boost Based dc-dc Converter	Energy Conversion, Delivery and Storage	Asim Amir Solangi (Universiti Malaya, Malaysia); Hang Seng Che (UMPEDAC, University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); Aamir Amir (UMPEDAC, University of Malaya, Malaysia); Ahmad El Khateb (University of Malaya, Malaysia)
	10:45 - 11:00	**1570306456**	Performance Evaluation of Multi-carrier PWM Methods for Solar Cells Powered Multi-level Inverters	SS2: Advances in Power Converters for PV Solar	Seyed Hamidreza Aghay kaboli (UMPEDAC & University Malaya (UM), Malaysia); Jeyraj Selvaraj (Universiti Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 4A 15th Nov. 2016 Studio Room 9	11:15 - 11:30	**1570304518**	Common-Mode Behavior Study for Transformerless Inverter based on RL-load and Grid-connected Test	SS2: Advances in Power Converters for PV Solar	Freddy Tan Kheng Suan (Asia Pacific University of Technology & Innovation; Faculty of Computing, Engineering and Technology, Malaysia); Hang Seng Che (UMPEDAC, University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	11:30 - 11:45	**1570305499**	A Novel Neutral Point Clamped Full bridge Topology for Transformerless Photovoltaic Inverters	SS2: Advances in Power Converters for PV Solar	Ahmad Syed (Jawaharlal Nehru Technological University Hyderabad, India); Tara Sandipamu (Jawaharlal Nehru Technological University Hyderabad & College of Engineering, India)
	11:45 - 12:00	**1570308009**	Improved Implementation of Selective Harmonic Elimination with 3rd Harmonic Adjustment for Inverter	Energy Conversion, Delivery and Storage	Syahrul Ashikin Azmi, Siti Rafidah Abdul Rahim, Mohammad Faridun Naim Tajuddin, Mohd Fayzul Mohammed and Zainuddin Mat Isa (Universiti Malaysia Perlis, Malaysia)
	12:00 - 12:15	**1570308018**	Modified APOPWM based multilevel inverter topology for solar power conversion system	Renewable and Sustainable Energy	Rathinam Angamuthu (Paavai Engineering College, India); Ramani Kannan (Universiti Tecknologi PETRONAS Malaysia, Malaysia); Zuhairi Baharudin (Universiti Teknologi PETRONAS, Malaysia); Karthikeyan Thangavel (M Kumarasamy Engineering College, India)
	12:15 - 12:30	**1570309146**	Parallel Voltage Sensing In a Multiphase Converter	Energy Conversion, Delivery and Storage	Jabbar Yahaya (Universiti Tenaga Nasional, Malaysia); Muhamad Mansor (Universiti Tenaga Nasioanal, Malaysia); Yassine Rhofir (Polytech Nantes, France)
	12:30 - 12:45	**1570306584**	Fast Two Stage MPPT Method Using Power Estimation Technique for Partially Shaded Condition	Energy Conversion, Delivery and Storage	Asyraf Saferi and Jeyraj Selvaraj (Universiti Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	12:45 - 13:00	-	-	-	-

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 4B 15th Nov. 2016 Studio Room 10	11:15 - 11:30	**1570305995**	Coordinated control of smart microgrid considering variability in load demand and generation	SS3: Advances in Microgrid Technologies	Sam Koohi-Kamali (University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); Hazlie Mokhlis (Electrical Engineering Department, Malaysia)
	11:30 - 11:45	**1570308244**	Development of Real-Time Industrial Energy Monitoring System With PQ Analysis Based on IoT	Energy in Buildings and Cities	Perumal Nallagownden and Hemanand Ramasamy (Universiti Teknologi Petronas, Malaysia)
	11:45 - 12:00	**1570308623**	On Incorporating Consumer Satisfaction in Microgrid Energy Management	Energy in Buildings and Cities	Roozbeh Morsali, Bao Vo and Ryszard Kowalczyk (Swinburne University of Technology, Australia)
	12:00 - 12:15	**1570304053**	Power System Controlled Separation using a New Two-stage Hybrid Optimization Method	Renewable and Sustainable Energy	Mohd Aifaa Mohd Ariff, Jaudah Abd Rani and Mohd Noor Abdullah (Universiti Tun Hussein Onn Malaysia, Malaysia)
	12:15 - 12:30	**1570308037**	LVRT capability based on PI-scanning for three-phase grid-connected photovoltaic system	Renewable and Sustainable Energy	Norazila Jaalam (UMPEDAC, University of Malaya, Malaysia); Bilal Eid (University of Malaya & UMPEDAC, Malaysia); A. B. Halim Abu Bakar (University of Malaya, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	12:30 - 12:45	**1570307962**	A Proposal of Smart Grounding System for distributed generation technologies	Other	N. Mohd Hasni (Universiti Tun Hussein Onn Malaysia, Malaysia); Rahisham Abd. Rahman (Universiti Tun Hussein Onn, Malaysia); Hussein Ahmad (Universiti Tun Hussein Onn Malaysia, Malaysia)
	12:45 - 13:00	**1570309990**	Economic Power Dispatch in Microgrids through Backtracking Search Algorithm	SS3: Advances in Microgrid Technologies	Mostafa Modiri Delshad (University of Malaya, Malaysia); Masoud Barati (Instructional Faculty, USA); Nasrudin Abdul Rahim (University Malaya, Malaysia)

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14 - 15 November 2016 (Monday & Tuesday)

	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 4C 15th Nov. 2016 Studio Room 8	11:15 - 11:30	**1570308480**	Study the Effect of Aging Municipal Solid Waste on Gases Production	Other	Mohibah Musa (Universiti Teknologi MARA; Fakulti Kejuruteraan Kimia, Malaysia); Kamariah Noor Ismail (UiTM, Malaysia); Ku Halim Ku Hamid (Universiti Teknologi MARA, Malaysia)
	11:30 - 11:45	**1570304301**	Pretreatment of palm kernel shell by torrefaction for co-gasification	Renewable and Sustainable Energy	Razi Ahmad (Universiti Malaysia Perlis, Malaysia); Khudzir Ismail (Universiti Teknologi MARA, Malaysia); Mohd Azlan Bin Mohd Ishak (Universiti Teknologi MARA & Perlis Campus, Malaysia); Nur Nasulhah Kasim (Universiti Teknologi MARA, Malaysia)
	11:45 - 12:00	**1570306759**	Pretreatment of Biomass for Power Generation	Renewable and Sustainable Energy	Md. Hasanuzzaman (University of Malaya; UM Power Energy Dedicated Advanced Centre (UMPEDAC), Malaysia)
	12:00 - 12:15	**1570291931**	Solid char from automotive paint sludge (APS) microwave pyrolysis:effect of absorber and APS loading	Renewable and Sustainable Energy	Syarifah Nor Faizah Syed Abdul Rahman and Norazah Abdul Rahman (Universiti Teknologi MARA, Malaysia); Siti Shawalliah Idris (Universiti Teknologi Mara Malaysia, Malaysia); Noor Fitrah Abu Bakar (Universiti Teknologi MARA Malaysia & Department of Process and Food Engineering, Faculty of EngineeringUniversiti Putra Malaysia, Malaysia); Roslan Mokhtar (Universiti Teknologi MARA Sabah, Malaysia); Zakiuddin Januri (Universiti Teknologi MARA Malaysia, Malaysia)
	12:15 - 12:30	**1570308489**	Production and Characterization of Blending Hydrogel Biocharfrom Sugarcane Bagasse and Fly Ash	Other	Mohibah Musa (Universiti Teknologi MARA; Fakulti Kejuruteraan Kimia, Malaysia)
	12:30 - 12:45	**1570306533**	Effect of blending ratio on co-gasification performance of tropical plant-based biomass	Renewable and Sustainable Energy	Muddasser Inayat and Shaharin Anwar Sulaiman (Universiti Teknologi PETRONAS, Malaysia); Khairuddin Sanaullah (Universiti Malaysia Sarawak, UNIMAS, Malaysia)

	12:45 - 13:00	**1570307746**	Energy mix with the vulnerability of nuclear power utilization	Other	Shoki Kosai (Kyoto University & University of Malaya, Malaysia)

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	Time	Paper ID	Title	Initial Topic	Authors/University/Country
Session 5A 15th Nov. 2016 Studio Room 9	14:30 - 14:45	**1570304344**	Fault Tolerant Capability of Symmetrical Multiphase Machines under One Open-Circuit Fault	SS1: Advances in Electrical Machines and Drives	Wan Noraishah Wan Abdul Munim (Universiti Teknologi MARA, Malaysia); Hang Seng Che (UMPEDAC & University of Malaya, Malaysia); Hew Wooi Ping (University Malaya, Malaysia)
	14:45 - 15:00	**1570305652**	A Simple PWM scheme for a four-level dual-inverter fed open-end winding five-phase motor drive	SS1: Advances in Electrical Machines and Drives	I Nyoman Wahyu Satiawan, Ida Bagus Citarsa and I Ketut Wiryajati (Mataram University - West Nusa Tenggara, Indonesia)
	15:00 - 15:15	**1570307367**	Symmetrical Six-Phase PWM Methods Using Similar and Dissimilar Zero-sequence Signals Injection	SS1: Advances in Electrical Machines and Drives	Baten Md Shihab (University of Malaya, Malaysia); Hang Seng Che (UMPEDAC & University of Malaya, Malaysia); Hew Wooi Ping (University Malaya, Malaysia)
	15:15 - 15:30	**1570307404**	Effects of Rotor Pole Number in Outer Rotor Permanent Magnet Flux Switching Machine for EV	SS1: Advances in Electrical Machines and Drives	Mahyuzie Jenal and Erwan Sulaiman (Universiti Tun Hussein Onn Malaysia, Malaysia); Rajesh Kumar (University of Tun Hussein Onn Malaysia & University of Tun Hussein Onn Malaysia, Malaysia)
	15:30 - 15:45	**1570307738**	Smaller High Temperature Machine for Electric Vehicle Applications	SS1: Advances in Electrical Machines and Drives	Roziah Aziz (Universiti Tun Hussein Onn Malaysia, Malaysia); Glynn Atkinson (Newcastle University, United Kingdom)

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Session 5B 15th Nov. 2016 Studio Room 10	14:30 - 14:45	**1570306378**	Photovoltaic glass cleaning methods: an overview	Renewable and Sustainable Energy	Ak Pandey (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia); A. Syafiq (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia)
	14:45 - 15:00	**1570317327**	Feasibility study on biogas energy production from a small-scale farm digester in Kazakhstan	Renewable and Sustainable Energy	Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan); Damira Pernebayeva (Nazarbayev University, Kazakhstan); Madina Bekbauova (National Centre of Science and Technology Evaluation, Kazakhstan); Daniyar Seitenov, Jong Kim and Andrei Dobrita (Nazarbayev University, Kazakhstan)
	15:00 - 15:15	**1570308089**	Development of Parabolic Concentrator- Based Thermoelectric Generator	Renewable and Sustainable Energy	Siti Nor Aisyah Burhanudin, Zainor Afezi Zainal Abidin, Mohd Shawal Jadin and Amir Izzani Mohamed (Universiti Malaysia Pahang, Malaysia)
	15:15 - 15:30	**1570307020**	Feasibility Study of Grid Connected Solar Home System: The Perspective of Malaysia	Renewable and Sustainable Energy	Moslem Uddin (Universiti Teknologi PETRONAS, Malaysia); Mohd Fakhizan Romlie (Universiti Teknologi PETRONAS & Universiti Teknologi PETRONAS, Malaysia); Mohd Faris Abdullah (Universiti Teknologi PETRONAS, Malaysia)
	15:30 - 15:45	**1570307922**	Renewable Energy Scenario in Indian Context: Vision and Achievements	Renewable and Sustainable Energy	Jeyraj Selvaraj (Universiti Malaya, Malaysia); Vineet Veer Tyagi (Shri Mata Vaishno Devi University, India); Ak Pandey (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia); Richa Kothari (Babasaheb Bhimrao Ambedkar University, India)

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Session 5C 15th Nov. 2016 Studio Room 8	14:30 - 14:45	**1570308485**	The Effects of Variations in Palm Oil Mill on CO2 sequestration by microalgae and their optimisation	Other	Mohibah Musa (Universiti Teknologi MARA & Fakulti Kejuruteraan Kimia, Malaysia)
	14:45 - 15:00	**1570306597**	Effect of Solvent Extraction Methods on Oil Yield and Its Parametric Feasibility with C. pyrenoidosa	Renewable and Sustainable Energy	Vinayak Pathak (Gurukula Kangri Vishwavidyalya, Haridwar, (Uttarakhand), India); Richa Kothari (Babasaheb Bhimrao Ambedkar University, India); A K Chopra (Gurukula Kangri Vishwavidyalya, Haridwar, (Uttarakhand), India); Shamshad Ahmad (Babasaheb Bhimrao Ambedkar University, Lucknow, India); Ak Pandey (UMPEDAC, University of Malaya, Kuala Lumpur, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	15:00 - 15:15	**1570308477**	Solubility Enhancement of Biomass Tar in Water-Benzene, Toluene and Ethylbenzene as Model Compound	Other	Muhammad Hanif Abdullah Zawawi and Norhasyimi Rahmat (Universiti Teknologi MARA, Malaysia); Syed Shatir A. Syed-Hassan (Universiti Teknologi MARA, Shah Alam, Malaysia)
	15:15 - 15:30	**1570308526**	The Performance Study of Ultrasonic-assisted Membrane Anaerobic System for COD Removal Efficiency	Other	Mohibah Musa (Universiti Teknologi MARA & Fakulti Kejuruteraan Kimia, Malaysia)
	15:30 - 15:45	**1570291943**	Microwave pyrolysis of automotive paint sludge (APS):effect of APS loading and absorber on oil yield	Renewable and Sustainable Energy	Syarifah Nor Faizah Syed Abdul Rahman and Norazah Abdul Rahman (Universiti Teknologi MARA, Malaysia); Siti Shawalliah Idris (Universiti Teknologi Mara Malaysia, Malaysia); Noor Fitrah Abu Bakar (Universiti Teknologi MARA Malaysia & Department of Process and Food Engineering, Faculty of EngineeringUniversiti Putra Malaysia, Malaysia); Roslan Mokhtar (Universiti Teknologi MARA Sabah, Malaysia); Zakiuddin Januri (Universiti Teknologi MARA Malaysia, Malaysia)

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Session 6A 15th Nov. 2016 Studio Room 9	16:00 - 16:15	**1570307992**	Nine-Phase Hex-tuple Inverter for Five-Level Output Based on Double Carrier PWM Technique	SS1: Advances in Electrical Machines and Drives	Padmanabhan Sanjeevikumar (Ohm Technologies, India); Sagar Mahajan (Vellore Institute of Technology, India); Frede Blaabjerg (Aalborg University, Denmark); Lars Norum (Norwegian University of Science and Technology (NTNU), Norway); Sridhar Seshagiri (San Diego State University, USA); Amin Hajizadeh (Aalborg University, Denmark)
	16:15 - 16:30	**1570308024**	Performance Analysis of a New E-Core HESFM for Future HEV	SS1: Advances in Electrical Machines and Drives	Faisal Khan (Universiti Tun Hussein Onn Malaysia & COMSATS Institute of Information Technology, Malaysia); Erwan Sulaiman (Universiti Tun Hussein Onn Malaysia, Malaysia); Siti Nur Umira Zakaria (Universiti Putra Malaysia, Malaysia)
	16:30 - 16:45	**1570308478**	Fault Detection and Isolation for Water-Pump System with Signal-Based Approach using SCADA	SS1: Advances in Electrical Machines and Drives	Febry Yadi Zainal (UMPEDAC & University of Malaya, Malaysia); Nasrudin Abd. Rahim, Ahmad Rivai and Oon Erixno (University of Malaya, Malaysia)
	16:45 - 17:00	**1570306525**	A Study of Single-Phase E-Core Hybrid Excitation Flux Switching Motor	Other	Jaudah Abd Rani, Erwan Sulaiman and Syed Naufal (Universiti Tun Hussein Onn Malaysia, Malaysia)
	17:00 - 17:15	**1570306640**	Vector Controlled AC Drives for Long Cable Applications: Analysis of Harmonics at Motor Terminal	Other	Siti Noormiza Binti Mat Isa and Zulkifilie Bin Ibrahim (Universiti Teknikal Malaysia Melaka, Malaysia); Maaspaliza Azri (Faculty of Engineering & UTeM Malacca, Malaysia); Marizan Sulaiman (Universiti Teknikal Malaysia Melaka, Malaysia); Md Hairul Nizam Talib (UTeM, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	17:15 - 17:30	**1570307769**	Optimization of Flux Switching Permanent Magnet Motor for Electric Scooter Application	Other	Enwelum I Mbadiwe (Jalan Limau 9, Parit Raja, Malaysia & Universiti Tun Hussein Onn Malaysia, Nigeria); Erwan Sulaiman (Universiti Tun Hussein Onn Malaysia, Malaysia)

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Session 6B 15th Nov. 2016 Studio Room 10	16:00 - 16:15	**1570307022**	Impact of Tilt Angle on the Performance of Photovoltaic Modules in Malaysia: A review	Renewable and Sustainable Energy	Mohammad Abdullah Al Mamun (University of Malaya, Malaysia); Md. Hasanuzzaman (University of Malaya & UMPEDAC, Malaysia); Jeyraj Selvaraj (Universiti Malaya, Malaysia)
	16:15 - 16:30	**1570307054**	Module Temperature Model for Retrofitted PV System in Malaysia using Principal Component Regression	Renewable and Sustainable Energy	Nurul Hidayah Bostamam (Universiti Teknologi MARA & Ministry of Higher Education Malaysia, Malaysia); Hedzlin Zainuddin, Shahril Irwan Sulaiman and Hezlin Aryani Abd Rahman (Universiti Teknologi MARA, Malaysia)
	16:30 - 16:45	**1570307538**	3D Numerical Study in a Solar Collector: Effect of Prandtl Number	Renewable and Sustainable Energy	Rehena Nasrin (Bangladesh University of Engineering and Technology, Bangladesh); Md. Hasanuzzaman (University of Malaya & UMPEDAC, Malaysia); Nasrudin Abdul Rahim (University Malaya, Malaysia)
	16:45 - 17:00	**1570284616**	Design and Implementation of a Smart Irrigation System for Improved Water-Energy Efficiency	Renewable and Sustainable Energy	Kizito Masaba and Amini Ntakirutimana (Carnegie Mellon University, USA); Taha Selim Ustun (Carnegie-Mellon University, USA)
	17:00 - 17:15	**1570308702**	A Computational Modelling of Wind Turbine Mechanical Power and its Improve Factor Determination	Renewable and Sustainable Energy	Teow Yok Wooi Matthew (UCSI University, Malaysia); Chiu Hsiung Khee (KDU University College, Malaysia); Rodney Tan Hean Gay (UCSI University, Malaysia)
	17:15 - 17:30	**1570306233**	Wind power prediction using enhanced parametric wind power curve modeling	Renewable and Sustainable Energy	Ehsan Taslimi-Renani (University of Malaya, UMPEDAC, Malaysia); Mohamad Fathi Mohamad Elias and Nasrudin Bin Abd Rahim (University of Malaya, Malaysia)

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Session 6C 15th Nov. 2016 Studio Room 11	16:00 - 16:15	**1570292240**	Integration Of GWO-LSSVM For Time Series Predictive Analysis	Other	Zuriani Mustaffa, Mohd Herwan Sulaiman, Bariah Yusob and Ferda Ernawan (Universiti Malaysia Pahang, Malaysia)
	16:15 - 16:30	**1570304875**	Development of Alternative-Remote Terminal Unit (A-RTU) for Data Control Management	Other	Nur Huda Mohd Amin (Universiti Teknikal Malaysia Melaka, UTeM, Malaysia); Datuk Prof. Dr. Mohd Ruddin Ab Ghani and Zanariah Jano (UTeM, Malaysia)
	16:30 - 16:45	**1570306348**	Development of Single Phase Active Power Filter for Rapid Control Prototyping Microcontroller	Other	Shamsul Zulkifli (Universiti Tun Hussein Onn Malaysia, Malaysia)
	16:45 - 17:00	**1570308016**	2D Static Droplet Simulation with Shan-Chen Multiphase Lattice Boltzmann Model	Other	Bagdagul Dauyeshova (Nazarbayev University, Kazakhstan); Luis Rojas-Solórzano (School of Engineering, Nazarbayev University, Kazakhstan); Ernesto Monaco (Department of Mathematics, 11 Cauerstrasse, Erlangen, Germany, 91058)
	17:00 - 17:15	**1570306380**	Demineralization of oil palm empty fruit bunch (EFB) intended as a high quality bio-oil feedstock	Renewable and Sustainable Energy	Nur Nasulhah Kasim and Khudzir Ismail (Universiti Teknologi MARA, Malaysia); Mohd Azlan Bin Mohd Ishak (Universiti Teknologi MARA; Perlis Campus, Malaysia); Razi Ahmad (Universiti Malaysia Perlis, Malaysia); Alina Mohamed (University Malaysia Perlis, Malaysia); Wan Izhan Nawawi Wan Ismail (Universiti Teknologi MARA, Malaysia)
	17:15 - 17:30	**1570307016**	Production and Characterization of Blending Hydrogel Biochar from Sugarcane Bagasse and Fly Ash	Renewable and Sustainable Energy	Norhayati Talib (Universiti Teknologi Mara, Malaysia); Nor Hidayah Meri (Universiti Teknologi Mara (UiTM) Shah Alam, Malaysia)