

Panel Sessions

14 March 2019, Thursday (11:00 AM-12:15 PM)

Panel Session- 1

Cross-border Power Exchange: Vision, Examples and Technical Issues

Panel Moderator: Prof. Saifur Rahman

Director, Virginia Tech Advanced Res Inst. and President, IEEE Power & Energy Society

Panelist:

Engg. Khaled Mahmood, Chairman, BPDB

Cross-Border Power Exchange: Into and Out of Bangladesh

Dr. Sushil. K. Soonee, Former CMD, POSOCO, India

Cross-Border Power Exchange Between India and Bangladesh

Dr. Yu Jun, Vice president, State Grid Corporation of China

Chinese Experience and Plans for Cross-Border Power Exchange

Dr. Nagaraja Ramappa, Managing Director, Power R&D Company, India

Technology issues of Back-to-Back HVDC Terminals.

Venue: Auditorium (4th Floor)

14 March 2019, Thursday (02:30 PM-03:45 PM)

Panel Session- 2

Challenges and Opportunities of Renewable Energy in Developing Countries

Panel Moderator: Prof. Tapan K. Saha, University of Queensland, Australia

Panelist:

Prof. Syed Islam, Curtin University, Australia

Mr. Sohel Ahmed, Managing Director, Grameen Shakti

Venue: Auditorium (4th Floor)

15 March 2019, Friday (11:45 AM-12:30 PM)

Panel Session- 3

Grid Integration of Renewable Energy Resources

Panel Moderator: Mr. Siddique Zobair, Member SREDA, Additional Secretary, MPEMR, GOB

Panelist:

Mr. Shahriar Ahmed Chowdhury, Director, Centre For Energy Research, UIU

Mr. Al Mudabbir Bin Anam, Programme coordinator, REEEP II, GIZ

Mr. Hannes Kirchhoff, ME SOLshare

Venue: Auditorium (4th Floor)

16 March 2019, Saturday (10:00 AM-11:15 AM)

Panel Session- 4

Power Engineering Education in Bangladesh

Panel Moderator: Prof. Muhammad Fayyaz Khan, Pro-VC, Green University, Bangladesh

Panelist:

Prof. Shahidul Islam Khan, Chairperson, EEE Dept., BRAC University

Prof. Abdul Hasib Chowdhury, EEE Dept., BUET

Prof. Tapan Kumar Saha, University of Queensland, Australia

Venue: Auditorium 4th floor

Detailed Conference Schedule

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| <p align="center">14 March 2019, Thursday (10:00 AM-11:00 AM) Opening Ceremony Chief Guest: Dr. Tawfiq-e-Elahi Chowdhury BB, Advisor to the Prime Minister on MPEMR, GOB Venue: Auditorium (4th Floor)</p> |
| <p align="center">14 March 2019, Thursday (11:00 AM-12:15 PM) Panel Session- 1 Cross-border Power Exchange: Vision, Examples and Technical Issues Panel Moderator: Prof. Saifur Rahman Director, Virginia Tech Advanced Res Inst. and President, IEEE Power & Energy Society Venue: Auditorium (4th Floor)</p> |
| <p align="center">14 March 2019, Thursday (12:15 PM-12:45 PM) Tea Break and Product Exhibition Opening Product Exhibition Venue: Field</p> |
| <p align="center">14 March 2019, Thursday (12:45 PM-01:30 PM) Keynote Talk Session- 1 Energy Transition and SGCC's Practice Keynote Speaker: Dr. Yu Jun, State Grid Corporation of China, China Venue: Auditorium (4th Floor)</p> |
| <p align="center">14 March 2019, Thursday (1:30 PM-02:30 PM) Lunch Break Venue: Ground Floor (Dining)</p> |
| <p align="center">14 March 2019, Thursday (02:30 PM-03:45 PM) Panel Session- 2 Challenges and Opportunities of Renewable Energy in Developing Countries Moderator: Prof. Tapan K. Saha, University of Queensland, Australia Venue: Auditorium (4th Floor)</p> |
| <p align="center">14 March 2019, Thursday (03:45 PM-04:00 PM) Tea Break</p> |



14 March 2019, Thursday (04:00 PM-05:30 PM)

Technical Session I: Photovoltaic I

Session Chair: Prof. Shahidul Islam Khan, Dept. of EEE, BRAC university.

Venue: 2nd Floor (Room no-7)

| ID | Title | Author(s) |
|----|---|---|
| 19 | Effect of Variation of Solar irradiance on the Inverter Output for a Grid connected PV system | Muhammad Fayyaz Khan, Md. Shazzadul Islam and Sahidul Islam |
| 48 | Simulation of a Solar Power System with Fuel Cell backup Source for Hybrid Power System Application | Md. Habibur Rahman, Kamanashis Barua, Md. Anis-Uz-Zaman, Mohammad Abdur Razak and Naeemul Islam |
| 67 | Performance Evaluation of Solar Tracking Systems for Submersible Centrifugal Fuel Pump | Md. Bakir Hossain and Samiul Huq |
| 69 | Optimization of a Solar Powered Water Pump for Crop Irrigation | Afnan Rudabe Rahman, Nafisa Navall, Nahian Shafiq, Sanjida Shoshi, Mohaimenul Islam and Md. Mosaddequr Rahman |
| 78 | Comparative Analysis of Dual and Single Axis Solar Tracking System Considering Cloud Cover | Hussain Mohammad Fahad, Aporajita Islam, Mohaimenul Islam, Md. Fahim Hasan, Wasima Fariha Brishty and Md. Mosaddequr Rahman |

14 March 2019 ,Thursday (04:00 PM-05:30 PM)

Technical Session II: Conventional and Non-conventional Energy Systems

Session Chair: Prof. Md. A. A. Shoukat Choudhury, Dept. of Chemical Engg., BUET

Venue: 2nd Floor (Room no-8)

| ID | Title | Author(s) |
|----|---|--|
| 18 | An Analysis of Different Parameters of Bryophillum Pinnatum Fuel cell for Improving Efficiency | Mohammad Emdadul Islam, Humayun Rashid, Abu Tayab Noman, Samzad Hossain, Md Showrav Bin Kashem and Md. Salman Khan |
| 39 | A Survey on Coal Gasification Scenarios in Bangladesh | Md. Kamruzzaman, Md. Raju Ahmed and Nahid-ur-Rahman Chowdhury |
| 47 | Analysis of Measured Current Densities and Power Densities Obtained From a Microbial Fuel Cell Using Saltbridge as Membrane | Sheikh Shehab Uddin, Kazi Shoffiuddin Roni, Fahmid Kabir, Sheikh Nayeem Uddin and Abu Hena MD Shatil |
| 64 | Numerical Design and Analysis of Ocean Wave Energy Generator | Tarik Bin Abdul Akib, Md Imtiaz Iqbal and Foysal Mehedi |
| 74 | Development of MATLAB simulink model of Invelox to Analyze The Impact of Inlet Height On speed ratio | S.M. Baque Billah and Sadia Qasim |

14 March 2019, Thursday, 7:00 PM

Dinner

Venue: Ground Floor (Dining)

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| <p>15 March 2019, Friday (10:00 AM-10:45 AM) Keynote Talk Session- 2 The Evolution of Control Centers for the Electric Power Grid Keynote Speaker: Prof. Anjan Bose, Washington State University, USA Venue: Auditorium (4th Floor)</p> |
| <p>15 March 2019, Friday (10:45 AM-11:45 AM) Tea Break</p> |
| <p>15 March 2019, Friday (11:45 AM-12:30 PM) Panel Session- 3 Venue: Auditorium (4th Floor) Grid Integration of Renewable Energy Resources Moderator: Mr. Siddique Zobair, Member SREDA, Additional Secretary, MPEMR, GOB</p> |
| <p>15 March 2019, Friday (12:30 PM-02:30 PM) Lunch Break Venue: Ground Floor (Dining)</p> |

| <p>15 March 2019, Friday (02:30 PM-04:00 PM) Technical Session III: Photovoltaic II Session Chair: Prof. Md. Mosaddequr Rahman, Dept. of EEE, Brac university Venue: 2nd Floor (Room no-7)</p> | | |
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| ID | Title | Author(s) |
| 12 | A case study to Install Rooftop Solar Photovoltaic in Cote D'Azur, France | M M Shourov Akter, Sajidur Rahman and Md. Zahidul Anam |
| 17 | Prospects of Solar Home System in Bangladesh: Feasibility & Constraints Analysis at Char Paschim Tepakhola in Faridpur | Muhammad Ali, Md. Mahbub Alahee, Muhtasim Shadman and Shovon Chattopadhyay |
| 31 | Artificial Light's Effects on Solar Cell's Short Circuit Current (ISC) and Open Circuit Voltage (VOC): A Simulation-Based Analysis. | Sahidul Islam, Muhammad Fayyaz Khan and Md. Shazzadul Islam |
| 51 | Infrared Thermography Based Performance Analysis of Photovoltaic Modules | Mohaimenul Islam, Galib Hasan, Isfar Ahmed, Moyukh Amin, Sukanya Dewan and Md. Mosaddequr Rahman |
| 55 | Performance Investigation of Poly Si and Mono Si PV Modules : A Comparative Study | Mohaimenul Islam, Md. Mehedi Hasan Shawon, Sumaiya Akter, Arbab Chowdhury, Shahidul Islam Khan and Md. Mosaddequr Rahman |

| <p>15 March 2019, Friday (02:30 PM-04:00 PM) Technical Session IV: Renewable Energy Session Chair: Prof. Muhammad Abdul Goffar Khan, Dept. of EEE, RUET Venue: 2nd Floor (Room no-8)</p> | | |
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| ID | Title | Author(s) |
| 3 | Performance Evaluation of a Green and Non-Concentrated Solar Thermoelectric Generator System | Md. Shihab Uddin, Anas Abdulla Alvi, Md. Nayeem Hasan Mallick, Sree Krishna Das, Md. Ashraful Islam and Rajia Sultana |
| 9 | STATCOM and PID Controller Based Stability Enhancement of a Grid Connected Wind Farm | Ajmayen Fayek, Shah Md. Salimullah, Md. Shakhawath Hossain, Rakib Hossain, Md. Shadman Hasan Shakib, Ariful Islam Anik and Moynul Hossen Khan |



| ID | Title | Author(s) |
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| 25 | Optimization and Management Strategy of Grid Connected Hybrid Renewable Energy Sources | Nesar Uddin and Md. Saiful Islam |
| 28 | An Optimized Stand-alone Green Hybrid Grid System for an Offshore Island, Saint Martin, Bangladesh | Khandaker Foysal Haque, Nazmus Saqib and Md. Shamim Rahman |
| 61 | A Possible Alternative Power Solution of Base Stations in Bangladesh | Md. Pavel Mahub, Syed Minhajul Abedin, Saifur Rahman Sabuj and Amitabha Chakrabarty |

15 March 2019, Friday (04:00 PM-05:00 PM)

Tutorial Session

Title: Peer-to-peer energy trading in Bangladesh
Conduct by: Mr. Hannes Kirchhoff, ME SOLshare
 Venue: 2nd Floor (Room No- 6)

15 March 2019, Friday (05:00 PM-06:30 PM)

Cultural Program and Conference Banquet
 Venue: Auditorium (4th Floor)

16 March 2019, Saturday (10:00 AM-11:15 AM)

Panel Session- 4

Venue: Auditorium 4th floor

Power Engineering Education in Bangladesh
Moderator: Prof. Muhammad Fayyaz Khan, Pro-VC, Green University, Bangladesh

16 March 2019, Saturday (11:15 AM-11:45 AM)

Project Show Opening & Tea Break
 Project Show: Open Deck

16 March 2019, Saturday (11:45 AM-01:15 PM)

Technical Session V: Smart Grid

Session Chair: Prof. Muhammad Fayyaz Khan, Pro-Vice Chancellor, Green University of Bangladesh
 Venue: 2nd Floor (Room no-7)

| ID | Title | Author(s) |
|----|--|--|
| 30 | Design and Simulation of a Photovoltaic and Fuel Cell Based Micro-grid System | Amit Kumer Podder, Kawser Ahmed, Naruttam Kumar Roy and Md. Habibullah |
| 36 | Millimeter Wave Based Sag Measurement Technique for Overhead Transmission Lines in Smart-Grid | Ayman Uddin Mahin and Md. Farhad Hossain |
| 50 | PHEV Participating in Load Frequency Regulation of Interconnected Smart Grid Using Integral Linear Quadratic Gaussian Control Approach | Mizanur Rahman, Neepa Sarker, Subrata K. Sarkar and Sajal K. Das |
| 56 | Development of Network Friendly Charging Methodology for Plugged in Hybrid Electric Vehicle(PHEV) in Microgrid | Nafiya Islam, Mahabuba Akter, Susmita Debnath, Samiha Tabassum Khan and Tareq Aziz |
| 65 | Developing a Voltage Control Methodology for Renewable Integrated Microgrid | Fayazul Hasan, Prioty Nabanita, Shaiful Islam and Tamim Haidar |

| 16 March 2019, Saturday (11:45 AM-01:15 PM) Technical Session VI: Power System Session Chair: Prof Abdul Hasib Chowdhury, Dept. of EEE, BUET Venue: 2 nd Floor (Room no-8) | | |
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| ID | Title | Author(s) |
| 6 | Analytical Study of Impact of Prepaid Metering System In Power Distribution Sector In Bangladesh | Tawhida Akand, Ziaul Haq and Abdullah Al Mejbah |
| 14 | A Real Time Electrical Load Distribution Monitoring and Controlling System Based on PLC and Web server | Abu Salman Shaikat, Rumana Tasnim, Rezwan-us Saleheen, Maruf Rayhan, Md. Tauhid Khan and Rabiul Hasan |
| 15 | Smart Meter with Load Prediction Feature for Home: A Context of Bangladesh | Abdul Kadar Muhammad Masum, Md. Kalim Amzad Chy, Md. Tanvir Hasan, Md. Hamid Sayeed and S M Taslim Reza |
| 34 | Design and Simulation of a Reactive Power Compensator Using STATCOM for 'Muhuri Dam' Wind Power Plant | Khandakar Abdulla Al Mamun, Md. Hafizur Rahman, Mubinu Hoque and Naeemul Islam |
| 62 | Study and Analysis of the Performance of Grid-Connected Multi-PMBLDC Motor Drive System | Janakiram Parjanya.Y, Arghya Mitra and Sunil Bhat |
| 72 | Islanding detection and control of grid connected inverter | M. Rukonuzzaman |
| 73 | Study and Analysis of Switching Transients in High Voltage Transmission Line from Barapukuriya to Bibiyana of Bangladesh | Anik Das Gupta, Hisham-Al-Rashid and Alif Fatin Faiyaz |

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| 16 March 2019, Saturday (01:15 PM-02:00 PM) Lunch Break Venue: Ground Floor (Dining) |
| 16 March 2019, Saturday (02:00 PM-04:00 PM) Project Show Judgment Venue: Open Deck |
| 16 March 2019, Saturday (04:00 PM-04:30 PM) Tea Break |
| 16 March 2019, Saturday (04:30 PM-06:00 PM) Award Giving and Closing Ceremony Chief Guest: Dr. Ahmad Kaikaus, Senior Secretary Power Division, Ministry of Power, Energy and Mineral Resources, GoB Venue: Auditorium (4th Floor) |

