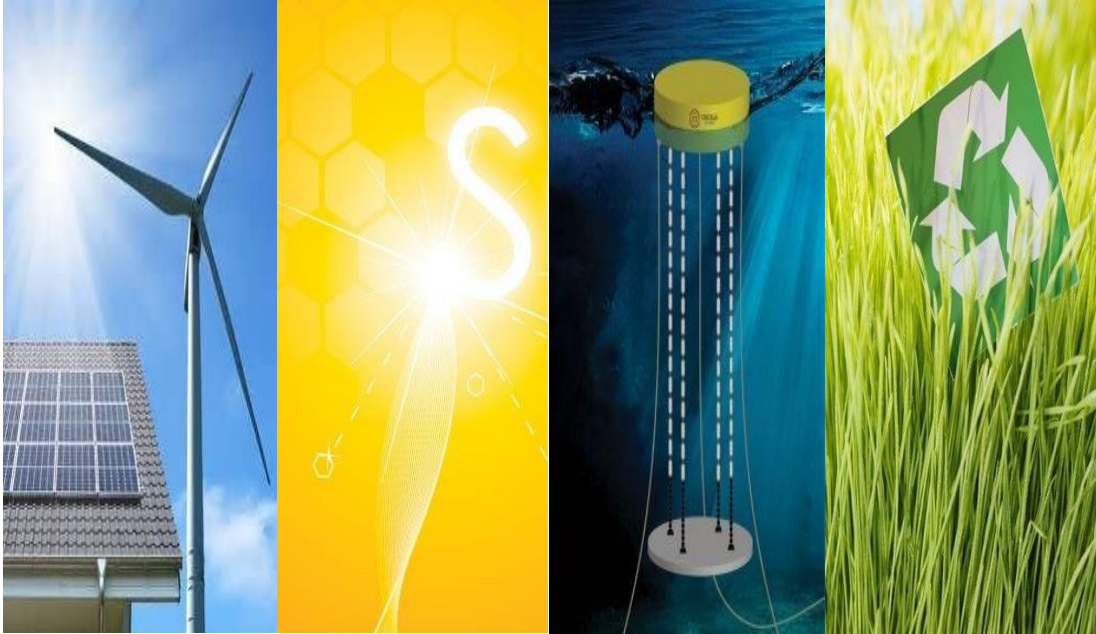


International Conference
on
Renewable Energy Potential for Sustainable Initiatives

REPSI-2018
08th-09th February 2018



Organized by



Deptt. of Applied Sc. and Deptt. of Electrical & Electronics Engg.
Bharati Vidyapeeth's College of Engineering,
Paschim Vihar, New Delhi,
INDIA

PROGRAM SCHEDULE
Registration: Thursday, Feb 08, 2018
10.00 AM - 4.00 PM, BVCOE, New Delhi

08.02.2018 Thursday	INAUGURAL CEREMONY Timings: 10.00 AM – 11.30 AM Venue: Auditorium
	<ul style="list-style-type: none"> ⇒ Lamp Lighting ⇒ Felicitation of Guests ⇒ Welcome address: Prof. (Dr.) Dharmender Saini, Principal, BVCOE, New Delhi ⇒ Conference Introduction: Mrs. Kusum Tharani, HOD EEE, BVCOE. ⇒ Key Note Address ‘1’: Chief Guest: Dr. P. C. Pant, Scientist-F Ministry of New and Renewable Energy ⇒ Key Note Address ‘2’: Guest of honor: Mr. A. N. Seshadri, Director, Smart Fuel Pvt. Ltd. Gurgaon ⇒ Special Address by Guest of honor: Mr. Manish Tiwari, AGM Smart Grid Dept, Power Grid Corp. Ltd ⇒ Vote of Thanks : Dr. Sushmita Mahopatra, - HOD Applied Sc., BVCOE. ⇒ High Tea

08.02.2018 Thursday 11.30 AM–1.30 PM Conference Room	TRACK 1 - BIOMASS AND BIOENERGY Session Chair: Mr. A.N.Seshadri , Director, Smart Fuel Pvt. Ltd. Gurgaon. Session Co-Chair: Dr. Sushmita Mahopatra HOD Applied Sc., BVCOE Session Co-Chair: Dr. Ashish Singh , Dept. of Applied Sc., BVCOE
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Paper Presentation	
Paper Id	Paper Title and Authors
8	Annotated Bibliography On Biomass Energy by- Nikita Rai, Aditi Singh, Neeraj Kumar
15	Renewable Energy Sources for Clean Environment: Opinion Mining by- Achin Jain, Vanita Jain
26	Power Generation Using Jatropha Oil and Solar Energy Himanshu Kumar, Aaradhya Khodaria, Vedansh Bajaj
46	Performance and Emission Characteristics of Thumba Oil Based Biodiesel on Diesel Engine: A Comprehensive Review Shahid Qayoom, Sumit Kanchan
48	Formulation, Physicochemical Analysis, Sustainable Packaging-Storage Provision, Environment Friendly Drying Techniques and Energy Consumption Characteristics of Mango Leather Production: A Review Tanmay Sarkar, Runu Chakraborty
57	Techno-Economic Comparison of An Off-Grid PV System and Biogas System for Dairy Farming Kusum Tharani, Smriti Mishra
61	Optimization of Bio-surfactant Production by Solid State Fermentation Using Response Surface Methodology Soumik Banerjee, Sarmistha Basak and Uma Ghosh

08.02.2018 Thursday 11.30 AM –1.30 PM CCNA Lab	TRACK 2 - ENERGY STORAGE AND BATTERY MANAGEMENT SYSTEMS Session Chair: Mr. Manish Tiwari , AGM, Smart Grid Dept. at Power Grid Session Co-Chair: Mrs. Kusum Tharani , HOD EEE, BVCOE, New Delhi Session Co-Chair : Mr. Lalit Batra , Dept. of Applied Sc., BVCOE
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Paper Id	Paper Title and Authors
2	Design Investigation Of 5Kw Organic Ranking Cycle(ORC) System Using Diffusion Absorption Refrigeration (DAR) For Cooling and Power Generation; Saurabh Pathak, S. K. Shukla
13	A Survey and Evaluation of Energy Audit at Sharjah, UAE Himanshu Kumar, Ali Ahmad Farhan, Neeraj Kumar, Poras Khetarpal
16	Intelligence Based Traffic Light Control Using Free Energy Generation Apoorva Aggarwal, Pumang Kumar, Md Arman Moiz, Ashhad Usmani
18	A Tutorial Review on Energy Auditing and Conservation of Energy Neeraj Kumar, Akhil Khandelwal, Rajat Sharma, Vishal Kumar
19	Energy Management of Microgrid: Review of state of the art Neeraj Kumar, Lovish Harjai, Sanya Gujral and Mansi Mohapatra
23	Battery Management System & Energy Storage Himanshu Kumar, Gargi Mishra, Prabhjot Singh Panesar, Karan Garg, Sarthak Arora
24	Review on frequency fluctuation control in wind energy conversion Harendra Pal
30	TRIAC Based Light Intensity Controller for Energy Saving N. Verma, S. Gupta, S. Banerjee, S. Goyal
32	Energy Efficiency Opportunities for the Future Airports Vivek Mishra, Gargi Mishra
39	Suitability Analysis of Different Batteries With Off Grid Photo Voltaic System Kusum Tharani, Anurag Dobriyal, Rishabh Mishra and Nikhil Bhatt
66	Comparison of Different Storage Devices in Electric Vehicle Charging Station Antariksha Verma, Shelly Vadhera
50	Sustainability Assessment Considering Socio-Environmental and Economic Indicators Using Fuzzy Logic: A Case Study of Indian Hydropower Projects --Anuja Shaktawat, Shelly Vadhera

08.02.2018 Thursday 02.30 AM–4.30 PM Conference Room	TRACK 3 - WIND AND HYBRID ENERGY CONVERSION SYSTEMS Session Chair: Dr. Naqui Anwer , Dept. of Energy and Environment, TERI University, New Delhi Session Co-Chair: Dr. Pragati Sharma , Dept. of Applied Sc., BVCOE, New Delhi Session Co-Chair: Dr. Amit Sharma , Dept. of Applied Sc., BVCOE, New Delhi
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Paper Id	Paper Title and Authors
11	Power Generation in Aircrafts by a Source of Renewable Energy Anil Kumar, Meenal Gupta, Tanmay Bhardwaj, Rachit Sharma
12	Control of Real and Reactive Power Flow Using Unified Power Flow Controller (UPFC) in Integrated Power System (Electrical Grid and Wind Power Generation) Sandeep Sharma, Ishita Srivastava, Soumye Singh, Sarthak Rawat
27	Modern control strategies of doubly-fed induction generator based wind turbine system Gargi Mishra, Ramit Mohan, Kartik Kapoor and Kartikey Kumar
36	Transient Stability Improvement Using SVC in Integrated Power System (Wind Farm and Electrical Grid) Sandeep Sharma, M Pratyush, Smriti Mishra, Manali Sovani, Sanya Wason
42	A Review and Comparative Analysis of Maximum Power Point Tracking in Wind Energy Conversion System Bharat Singh, Ajay Sharma, Vikas Pabla, Dhvaj Aggarwal
51	Design of Hybrid Systems Using Mamina Patel , Shelly Vadhera
53	Comparison of LCC and VSC-HVDC Technologies for Offshore Wind Farms Abhishek Gunwant, Shelly Vadhera
63	Transient and Voltage Stability Investigation of Integrated Wind Farm Fed to a Power Grid Through Generalized Unified Power Flow Controller (G-UPFC) Sandeep Sharma, Shelly Vadhera
64	Comparative Study of Pitch Angle Control for Variable Speed Wind Turbine Bharat Singh, Dr Shabana Urooj
68	Geometric modifications of cabinets for convective Cooling of electronic equipment Gurjeet Singh, Perminderjit Singh, Deepak Chopra
69	Multi-Objective Optimization of Reactive Power for Voltage Stability Enhancement Puneet Chawla
72	GA Method Of Efficiency Maximization of DFIG by-Sandeep Banerjee, Vinit Pathak and Vishal Gupta

09.02.2018 Friday 10.00 AM–12.00 PM Conference Room	TRACK - 4 PHOTO VOLTAIC SYSTEMS Session Chair: Dr. Sanjay Aggarwal , School of Eng. & Tech., IGNOU, New Delhi Session Co-Chair : Dr. Abhishek Gandhar , Dept. of EEE, BVCOE, New Delhi
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Paper Id	Paper Title and Authors
21	System stability comparison by STATCOM and SVC for an Integrated Power System. Sandeep Sharma, Anubhav Choudhary, Pankaj Kumar, Eakansh Gupta
25	A Comparative Study on Efficiency Optimisation of Photovoltaic Power System. Bharat Singh, Adarsh Kumar Sharma, Amit Gautam, Deepak Pipal
47	Year Around Experimental Performance Analysis of Evacuated Tubes Coupled Solar Still. Hitesh Panchal, Hitesh Bhargav
54	Application of Virtual Synchronous Generator (VSG) On Integration of Renewable Energy Sources. Amit Kumar, Shelly Vadhera
56	Aggregation Based Dynamic Equivalence of Isolated Power System for Automatic Generation Control. Sadaf Naqvi, Ibraheem Nasiruddin, Sana Ali & Prabhat Kumar
60	Comparison of Various Configuration of Solar Array Under PSC Sandeep Kumar, Manish Bindal and Dr.Smita Pareek
62	Modeling and Performance Analysis of Grid Connected Photovoltaic Power Systems. S.Gupta, A. Gandhar, S. Gandhar
65	Impact of Photovoltaic Penetration on Static Voltage Stability Of Distribution Networks-A Probabilistic Approach by- Mahiraj Singh Rawat, Shelly Vadhera
70	Reactive Power Management of Islanded Microgrid Using UPFC Shashi Gandhar, Jyoti Ohri and Mukhtiar Singh
76	A review on the Improvement of Power Quality of Renewable Energy Sources based Power systems Shashi Gandhar, Ankit Singh, Phuntsog Norbu and Cherag Khatter
77	Solar Powered Passenger Information Display System Apoorva Aggarwal, Akash Goyal, Ali Raza, Mridul Gautam

09.02.2018 Friday 10.00AM–12.00 PM CCNA Lab	TRACK - 5 ALTERNATE ENERGY CONVERSION SYSTEMS Session Chair: Prof.(Dr.) S. K. Singh , Professor & Head, CCET, Chandigarh Session Co-Chair: Ms Shashi Gandhar , Dept. of EEE, BVCOE, New Delhi Session Co-Chair : Dr. K. Sudha , Dept. of EEE, BVCOE, New Delhi
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Paper Id	Paper Title and Authors
9	CSO Technique for Solving the Economic Dispatch Problem Considering the Generator Constraints Prabhujit Mohapatra, Kedar Nath Das, Santanu Roy, Ram Kumar
28	A Review on Nucleate Pool Boiling Heat Transfer of Binary Mixtures Palash Gupta, Mudassir Hayat, Ritesh Srivastava
31	Conversion of Mechanical Energy into Electrical Energy Piezo - Electric Sensor: A Source of Renewable Energy by-Anil Kumar, Meenal Gupta, Tanmay Bhardwaj
37	Design Challenges of Rectenna For Wireless Energy Harvesting J. Kumar, R. Kumar, B. Basu, F. A. Talukdar
44	Synergistic Reinforcement of Graphene Oxide-Polyvinyl Alcohol Bio-nanocomposite to Enhance Mechanical Performance. Bhasha, Parul Malik, Chandra Mohan Srivastava, Purnima Jain
52	Reliability Assessment of Renewable Energy Systems at Planning Level Preet Lata, Shelly Vadhera
75	Improvement of Transient Stability Margin in RES Based Power Systems using STATCOM Abhishek Gandhar, Sunil Gupta and Shashi Gandhar
73	Power System Stability Investigation Using Micro Grid Abinash Singh, Balwinder Singh Surjan
74	Investigation of Fractal Antenna for RF Energy Harvesting System Shashi Bhushan Kumar, Pramod Kumar Singhal

09.02.2018 Friday 12.00 PM–01.00 PM Conference Room	VALEDICTORY SESSION Panel Discussion Forum Formally closing of REPSI-2018
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