

## Conference Schedule

### Day 1, 10 Dec 2019

Time	Paper Id	Title
<b>8:00 AM - 9:00 AM</b>	<b>Registration and Breakfast, Cafeteria, Ground floor</b>	
<b>9:15 AM - 9:55 AM</b>	<b>Inauguration, Main Auditorium, Ground floor</b>	
<b>10:00 AM - 11:00 AM</b>	<b>Invited talk</b>	<b>Prof. Diana Urge-Vorsatz, Main Auditorium, Ground floor</b>
<b>11:00 AM - 11:25 AM</b>	<b>Tea Break, Foyer, First floor &amp; Cafeteria, Ground floor</b>	
<b>11:30 AM - 1:00 PM</b>	<b>Session 1.1a: Solar PV, Room 11, First floor</b>	
11:30 AM - 11:45 AM	055	Power Management of non-conventional Energy resources based DC Microgrid supported by hybrid energy storage
11:45 AM - 12:00 PM	068	Performance Evaluation of Wind - Solar Hybrid Systems in Indian Context
12:00 PM - 12:15 PM	087	Investigation on Different Types of Electric Storage Batteries used in offgrid Solar Power Plants and Procedures for their Performance Improvement
12:15 PM - 12:30 PM	176	Correlating partial shading and operating conditions to the performance of PV panels
12:30 PM -12:45 PM	193	Assessment of Different Multiclass SVM Strategies for Fault Classification in a PV System
12:45 PM - 1:00 PM	214	Automated cleaning of PV panels using the comparative algorithm and Arduino
<b>11:30 AM - 1:00 PM</b>	<b>Session 1.1b: Solar Thermal, Room 12, First floor</b>	
11:30 AM - 11:45 AM	018	Solar Energy for Meeting Service Hot Water Demand in Hotels: Potential and Economic Feasibility in India
11:45 AM - 12:00 PM	019	Techno-economic feasibility of condenser cooling options for solar thermal power plants in India
12:00 PM - 12:15 PM	020	Optical Modelling of Parabolic Trough Solar Collector
12:15 PM - 12:30 PM	037	Thermo-Hydrodynamic Modeling of Direct Steam Generation in Parabolic Trough Solar Collector
12:30 PM -12:45 PM	058	Sizing of a solar powered adsorption cooling system for room cooling needs
12:45 PM - 1:00 PM	078	Mathematical Analysis of Convection Heat Loss from Solar Cavity Receiver Dish Concentrator
<b>11:30 AM - 1:00 PM</b>	<b>Session 1.1c: Biomass and Bio fuels, Room 13, First floor</b>	
11:30 AM - 11:45 AM	030	Development of an Improved Cookstove: An Experimental Study
11:45 AM - 12:00 PM	034	Double Dielectric Barrier Discharge-Assisted Conversion of Biogas to Synthesis Gas
12:00 PM - 12:15 PM	043	Hydrodeoxygenation of Bio-oil from Fast Hydrolysis of Pinewood over Various Catalysts
12:15 PM - 12:30 PM	110	Rice Paddy as a Source of Sustainable Energy in India

12:30 PM - 12:45 PM	198	Extinction of non-premixed 'volatiles' flame: Experiments on single biomass particles and connection to counter-current flame propagation in packed beds
12:45 PM - 1:00 PM	209	Effect of Injection Pressure on the Performance Characteristics of Double Cylinder 4-Stroke CI Engine using Neem Biodiesel.
<b>11:30 AM - 1:00 PM</b>	<b>Session 1.1d: Energy policy, economics, management, Room 14, First floor</b>	
11:30 AM - 11:45 AM	023	The Human Dimension of Household Electricity Consumption: A Structural Equation Modelling Approach
11:45 AM - 12:00 PM	051	Environmental disclosure regulation and low carbon growth: Evidence from firm level data
12:00 PM - 12:15 PM	090	Study of effects of water inlet temperature and flow rate on the performance of Rotating Packed Bed
12:15 PM - 12:30 PM	111	Cost and Emission Trade-offs in Electricity Supply for the state of Maharashtra
12:30 PM - 12:45 PM	273	Effective use of Existing Efficient Variable Frequency Drives (VFD) technology for HVAC systems – Consultative Research Case Studies
12:45 PM - 1:00 PM	275	Thermodynamic Analysis of a Combined Power and Cooling System Integrated with CO <sub>2</sub> Capture Unit of a 500MWe SupC Coal-fired Power Plant
<b>1:00 PM - 1:55 PM</b>	<b>Lunch, Second floor &amp; Cafeteria, Ground floor</b>	
<b>2:00 PM - 3:30 PM</b>	<b>Session 1.2a: Solar PV, Room 11, First floor</b>	
2:00 PM - 2:15 PM	247	Assessment of Floating Solar Photovoltaic (FSPV) Potential in India
2:15 PM - 2:30 PM	249	Policy intervention for promoting effective adaptation of rooftop solar PV systems
2:30 PM - 2:45 PM	254	A Simplified Non-Iterative Method for Extraction of Parameters of Photovoltaic Cell/Module
2:45 PM - 3:00 PM	262	Design and Fabrication of Grating based Filters for Micro-thermophotovoltaic Systems
3:00 PM - 3:15 PM	270	Analysis of Nature Inspired Spirals for Design of Solar Tree
3:15 PM - 3:30 PM	277	DFT studies on electronic and optical properties of inorganic CsPbI <sub>3</sub> perovskite absorber for solar cell application
<b>2:00 PM - 3:30 PM</b>	<b>Session 1.2 b: Solar Thermal, Room 12, First floor</b>	
2:00 PM - 2:30 PM	<b>Invited Talk</b>	Prof. Pradeep Dutta
2:30 PM - 2:45 PM	083	Effect of Top Loss and Imperfect Regeneration on Power Output and Thermal Efficiency of a Solar Low Delta-T Stirling Engine
2:45 PM - 3:00 PM	118	Desalination using Waste Heat Recovery with Active Solar Still
3:00 PM - 3:15 PM	137	Experimental Investigations of Drying Characteristics of Thompson Seedless Grapes using Solar Energy
3:15 PM - 3:30 PM	142	Performance assessment and parametric study of multiple effect evaporator
<b>2:00 PM - 3:30 PM</b>	<b>Session 1.2 c: Nuclear Energy, Room 13, First floor</b>	

2:00 PM - 2:30 PM	<b>Invited Talk</b>	Prof. Carlos Alberto Dorao
2:30 PM - 2:45 PM	017	Does the criteria of instability thresholds during Density Wave Oscillations need to be redefined?
2:45 PM - 3:00 PM	100	Computation of Higher Eigenmodes using Subspace iteration scheme and its application to Flux Mapping System of AHWR
3:00 PM - 3:15 PM	280	Safety Analysis of Loss of NPP off-site power with failure of Reactor SCRAM (ATWS) for VVER-1000
3:15 PM - 3:30 PM	336	Comparison of Physics Characteristics of Pressurized Water Reactor Type Advanced Light Water Reactors
<b>2:00 PM - 3:30 PM</b>	<b>Session 1.2d: Biomass and biofuels, Room 14, First floor</b>	
2:00 PM - 2:15 PM	231	Experimental Investigation of a biogas fueled diesel engine at different biogas flow rates
2:15 PM - 2:30 PM	245	A comparative experimental investigation of improved biomass cookstoves for higher efficiency with lower emissions
2:30 PM - 2:45 PM	259	Carbon deposition on the anode of a solid oxide fuel cell fueled by syngas – A thermodynamic analysis
2:45 PM - 3:00 PM	279	Bio-ethanol production from carbohydrate-rich microalgal biomass: <i>Scenedesmus obliquus</i>
3:00 PM - 3:15 PM	298	Performance and Emission Characteristics of CI Engine Fueled With Plastic Oil blended with Jatropa Oil And Diesel
3:15 PM - 3:30 PM	306	Thermochemical conversion of tomato plant waste for liquid fuel production
<b>3:30 PM - 4:00 PM</b>	<b>Tea Break, Foyer, First floor &amp; Cafeteria, Ground floor</b>	
<b>4:00 PM - 5:30 PM</b>	<b>Session 1.3a: Electrochemical storage, Room 11, First floor</b>	
4:00 PM - 4:15 PM	072	Structural, Electrical and Cell Performance Study on Lithium Germanium Phosphate Glass-Ceramics based Solid State Li-Electrolyte
4:15 PM - 4:30 PM	125	Development of a dynamic battery model and estimation of equivalent electrical circuit parameters
4:30 PM - 4:45 PM	206	Studies on the Use of Thorium in PWR
4:45 PM - 5:00 PM	236	Characteristics of an Indigenously Developed 1 kW Vanadium Redox Flow Battery Stack
5:00 PM - 5:15 PM	288	Electrodeposition of Cu <sub>2</sub> O: Determination of limiting potential towards solar water splitting
5:15 PM - 5:30 PM	356	Highly Stable Pt/CVD-Graphene Coated Superstrate Cu <sub>2</sub> O Photocathode for Water Reduction
<b>4:00 PM - 5:30 PM</b>	<b>Session 1.3 b: Energy policy, economics, management, Room 12, First Floor</b>	
4:00 PM - 4:15 PM	120	Incorporating battery degradation in stand-alone PV microgrid with hybrid energy storage
4:15 PM - 4:30 PM	130	Investigation of Energy Performance of a High Rise Residential Building in Kolkata through Performance Levels of Energy Conservation Building Code, 2017
4:30 PM - 4:45 PM	145	Dynamic modelling of natural gas market based on impact assessment: An Indian case study

4:45 PM - 5:00 PM	148	Model for Economic Optimization of Nuclear – Renewable Hybrid Energy Systems
5:00 PM- 5:15 PM	253	Mining representative load profiles in commercial buildings
5:15 PM - 5:30 PM	257	Viability study of stand alone hybrid energy systems for telecom base station
<b>4:00 PM - 5:30 PM</b>		<b>Session 1.3 c: Waste-to-energy, Room 13, First Floor</b>
4:00 PM - 4:15 PM	015	Exergy based comparison of two Gas Turbine Plants with Naphtha and Naphtha-RFG mixture as fuels
4:15 PM - 4:30 PM	016	Decentralized solid waste management for educational-cum-residential campus: A pilot study
4:30 PM - 4:45 PM	224	Waste to Energy: Issues, Challenges, and Opportunities for RDF Utilization in Indian Cement Industry
4:45 PM - 5:00 PM	358	Thermodynamic Studies on Steel Slag Waste Heat Utilization for Generation of Synthesis Gas using Coke Oven Gas (COG) as feedstock
5:00 PM- 5:15 PM	361	Influence Of Bed Temperature On Performance Of Silicagel Methanol Adsorption Refrigeration System At Adsorption Equilibrium
5:15 PM - 5:30 PM	363	Experimental investigation using enriched biogas in S-I engine for stable rural electrification
5:30 PM -5:45 PM	278	Biowaste Derived Highly Porous Carbon for Energy Storage
<b>4:00 PM - 5:30 PM</b>		<b>Session 1.3 d: Fuel Cells, Room 14, First Floor</b>
4:00 PM - 4:15 PM	080	Performance Study of a Anode Flow Field Design used in PEMFC Application
4:15 PM - 4:30 PM	158	Thermodynamic Analysis of a 500 MWe Coal Fired Supercritical Thermal Power Plant Integrated with Molten Carbonate Fuel Cell (MCFC) and Gas Turbine in its Flue Gas Stream
4:30 PM - 4:45 PM	266	Cellulose Nanocrystals Incorporated Proton Exchange Membranes for Fuel Cell Application
4:45 PM - 5:00 PM	267	Study of the effect of biomass derived N-self doped porous carbon in microbial fuel cell
5:00 PM- 5:15 PM	369	Numerical investigation on the influence of reactant gas concentration on the performance of a PEM fuel cell
<b>5:30 PM - 6:30 PM</b>	093,141,186,187,195,242,251 269,290,304,314,318,374, 378,383,384,385,387,389 391,395,399,401,404,405,410 411,412,414,415,416	<b>Interaction over Tea for Poster Presentation, Foyer, First floor</b>

**Day 2, 11 Dec 2019**

Time	Paper Id	Title
<b>8:00 AM - 8:50 AM</b>	<b>Breakfast, Cafeteria, Ground floor</b>	
<b>9:00 AM - 10:00 AM</b>	<b>Invited talk</b>	<b>Prof. Ravi Silva, Room 21, Second floor</b>
<b>10:10 AM - 11:10 AM</b>	<b>Session 2.1 a: Fuel Cells, Room 11, First floor</b>	
10:10 AM - 10:40 AM	<b>Invited Talk</b>	Prof. Prakash Chandra Ghosh
10:40 AM - 10:55 AM	169	Actuator Fault Detection and Isolation for PEM Fuel Cell Systems using Unknown Input Observers
10:55 AM - 11:10 AM	202	Modeling Polarization Losses in HTPEM Fuel Cells
<b>10:10 AM - 11:10 AM</b>	<b>Session 2.1b: Electrochemical Storage, Room 12, First floor</b>	
10:10 AM - 10:25 AM	177	Engineering of O <sub>2</sub> Electrodes by Surface Modification for Corrosion Resistance in Zinc-Air Batteries
10:25 AM - 10:40 AM	258	Effect of temperature and salt concentration on the properties of electrolyte for sodium ion batteries
10:40 AM - 10:55 AM	316	Pseudocapacitive energy storage in Copper Oxide and Hydroxide Nanostructures casted over Nickel-foam
<b>10:10 AM - 11:10 AM</b>	<b>Session 2.1 c: Biomass and biofuels, Room 13, First floor</b>	
10:10 AM - 10:40 AM	<b>Invited Talk</b>	Prof. Sandeep Kumar
10:40 AM - 10:55 AM	308	Single particle analysis of thermally thick wood particles in O <sub>2</sub> ,N <sub>2</sub> [(CO)] <sub>2</sub> atmosphere
10:55 AM - 11:10 AM	320	Processing thermogravimetric analysis data for pyrolysis kinetic study of microalgae biomass
11:10 AM -11:25 AM	075	Microalgae growth study with High CO <sub>2</sub> Concentration stream- Experience with native species
11:25 AM -11:40 AM	108	Performance Evaluation of Gasifire Type Biomass Cookstove Models: An Experimental Study
<b>10:10 AM - 11:10 AM</b>	<b>Session 2.1 d: Energy, environment, society, Room 14, First floor</b>	
10:10 AM - 10:25 AM	021	Cooling energy saving potential of naturally ventilated interior design in low-income tenement unit
10:25 AM - 10:40 AM	105	ESCO model for energy efficient pump installation scheme: A case study
10:40 AM - 10:55 AM	178	Energy Farming - A Green Solution For Indian Cement Industry
10:55 AM - 11:10 AM	205	A non-parametric approach to investigate the effect of energy consumption on CO <sub>2</sub> emissions: Evidence from a panel of South Asian countries
<b>11:10 AM - 11:25 AM</b>	<b>Tea Break, Foyer, First floor</b>	

<b>11:30 AM- 1:00 PM</b>	<b>Session 2.2 a: Solar PV, Room 11, First floor</b>	
11:30 AM - 12:00 PM	<b>Invited Talk</b>	Prof. Jatin Rath
12:00 PM - 12:15 PM	310	An Analysis for Management of End-of-Life Solar PV in India
12:15 PM - 12:30 PM	324	Photovoltaic Thermal Collectors with Phase Change Material for Southeast of England
12:30 PM - 12:45 PM	339	Evaluation of annual electrical energy through semitransparent (glass to glass) and opaque photovoltaic module in clear sky condition at composite climate: A comparative study
12:45 PM - 1:00 PM	351	Co-sensitization of perovskite solar cells by organometallic compounds: Mechanism and photovoltaic characterization
<b>11:30 AM- 1:00 PM</b>	<b>Session 2.2 b: Nuclear Energy, Room 12, First floor</b>	
11:30 AM - 12:00 PM	<b>Invited Talk</b>	Dr. Umasankari Kannan
12:00 PM - 12:15 PM	337	Development Of A Python Module “SARRA” For Refuelling Analysis of MSR Using DRAGON Code
12:15 PM - 12:30 PM	340	Current Practices and Emerging Trends in Safety Analysis of NPPs
12:30 PM - 12:45 PM	352	Nuclear Power Plants and Human Resources Development in South Asia
12:45 PM - 1:00 PM	359	Reactivity Initiated Transients for 700MWe PHWR
<b>11:30 AM- 1:00 PM</b>	<b>Session 2.2 c: Transportation, Room 13, First floor</b>	
11:30 AM - 12:00 PM	<b>Invited Talk</b>	Prof. A.S. Ramadhas
12:00 PM - 12:15 PM	229	Predict the Effect of Combustion Parameter on Performance & Combustion Characteristics of Small Single Cylinder Diesel Engine
12:15 PM - 12:30 PM	334	Numerical Investigation on the Effect of EGR in a Premixed Natural Gas SI Engine
12:30 PM - 12:45 PM	348	Platooning of Flat Solar Panel Mounted Mini Bus Model – A Numerical Investigation
12:45 PM - 1:00 PM	372	Design and Analysis of a Solid Oxide Electrolyser Plant for the production of Ammonia from Excess Renewable Electricity
<b>11:30 AM- 1:00 PM</b>	<b>Session 2.2 d: Solar Thermal, Room 14, First floor</b>	
11:30 AM - 11:45 AM	076	Optimization in the Operation of Cabinet Type Solar Dryer for Industrial Applications
11:45 AM- 12:00 PM	109	Transient numerical model for natural convection flow in flat plate solar collector
12:00 PM - 12:15 PM	200	Performance Analysis of Double Glass Water Based Photovoltaic/Thermal System
12:15 PM - 12:30 PM	210	Experimental study of a helical coil receiver using Fresnel lens
12:30 PM - 12:45 PM	263	A systematic investigation on evaporation, condensation and production of sustainable water from novel designed tubular solar still

12:45 PM - 1:00 PM	265	Novel design of PV integrated solar still for cogeneration of power and sustainable water using PV-T technology
<b>1:00 PM - 1:55 PM</b>	<b>Lunch Break, Second floor &amp; Cafeteria, Ground floor</b>	
<b>2:30 PM - 5:00 PM</b>	<b>Rountable session on "Future of Coal Research", Board Room, Fourth floor</b>	
<b>2:00 PM -3:30 PM</b>	<b>Session 2.3 a: Energy policy, economics, management + Energy Education, Room 11, First floor</b>	
2:00 PM - 2:15 PM	089	Saving electricity, one consumer at a time
2:15 PM - 2:30 PM	146	Energy Education for sustainable future - A Review
2:30 PM - 2:45 PM	166	Bamboo Plant Intellect Deeds Optimization Algorithm for Solving Optimal Reactive Power Problem
2:45 PM - 3:00 PM	171	Analysis of Heating and Cooling Energy Demand of School Buildings
3:00 PM - 3:15 PM	221	Energy Literacy of University Graduate Students: A Multidimensional Assessment in terms of Content Knowledge, Attitude and Behaviour
3:15 PM - 3:30 PM	342	Internalizing the external cost of Gaseous and Particulate matter emissions from the coal-based thermal power plants in India
<b>2:00 PM -3:30 PM</b>	<b>Session 2.3 b: Transportation, Room12, First floor</b>	
2:00 PM - 2:15 PM	059	Experimental Evaluation of Common Rail Direct Injection Compression Ignition Engine with EGR using Biodiesel
2:15 PM - 2:30 PM	123	Numerical Investigations on the Flow Characteristics in a Compression Ignition Engine with Vortex Tube at Inlet
2:30 PM - 2:45 PM	159	Influence of Fuel Injection Pressure and Injection Timing on Nano-Particle Emission in Gasoline/Diesel RCCI Engine
2:45 PM - 3:00 PM	204	Effect of Diesel Injection Timings on the Nature of Cyclic Combustion Variations in a RCCI Engine
3:00 PM - 3:15 PM	208	Co-axial Thermal Probe for High Frequency Periodic Response in an IC Engine Test Rig
3:15 PM - 3:30 PM	213	Optimization of Injector location on the Cylinder Head in a Direct Injection Spark Ignition Engine
<b>2:00 PM -3:30 PM</b>	<b>Session 2.3 c: Solar thermal, Room 13, First floor</b>	
2:00 PM - 2:30 PM	<b>Invited talk</b>	<b>Prof. Keith Lovegrove</b>
2:30 PM - 2:45 PM	149	Exergy analysis and cost optimization of solar flat pate collector for a two stage absorption refrigeration system with water-lithium bromide as a working pair
2:45 PM - 3:00 PM	151	Design and Development of Concentrated Solar Cooker with Parabolic Dish Concentrator
3:00 PM - 3:15 PM	154	Thermal and Electrical Performance Assessment of Elongated Compound Parabolic Concentrator
3:15 PM - 3:30 PM	180	Energetic and Exergetic Performance Comparison of a Hybrid Solar Kalina Cycle at Solar and Solar Storage Mode of Operations

<b>2:00 PM -3:30 PM</b>		<b>Session 2.3 d: Wind, hydro, and ocean energy , Room 14, First floor</b>
2:00 PM - 2:15 PM	150	Experimental Investigation on Near Wake Vortex Shedding for Horizontal Axis Wind Turbine
2:15 PM - 2:30 PM	252	Numerical Investigation of the Performance of Pump as Turbine with Back Cavity Filling
2:30 PM - 2:45 PM	260	Numerical Study on CO2 injection in Indian Geothermal reservoirs using COMSOL Multiphysics 5.2a
2:45 PM - 3:00 PM	261	Modification in the Rotor of Savonius Turbine to Reduce Reverse Force on the Returning Blade
3:00 PM - 3:15 PM	303	Performance Assessment of Pelton Turbine with Traditional and Novel Hooped Runner by Experimental Investigation
3:15 PM - 3:30 PM	330	Performance Enhancement of Savonius Hydrokinetic Turbine with a Unique Vane Shape : An Experimental Investigation
<b>3:30 PM - 4:00 PM</b>		<b>Tea Break, Foyer, First floor &amp; Cafeteria, Ground floor</b>
<b>4:00 PM - 5:00 PM</b>		<b>Session 2.4 a: Thermal storage + Coal, Room 11, First floor</b>
4:00 PM - 4:15 PM	061	Emission Measurement Considerations for Power Industry
4:15 PM - 4:30 PM	164	Three dimensional investigation on energy separation in a Ranque-Hilsch vortex tube
4:30 PM - 4:45 PM	226	Enhancement of Thermal Performance of ZrO <sub>2</sub> Nanofluid Flow in a Tube with Staggered Conical Strip Inserts
4:45 PM - 5:00 PM	004	Determination of steam energy factor for wort kettle as a tool for optimisation of the steam energy
<b>4:00 PM - 5:15 PM</b>		<b>Session 2.4 b: Grid integration of renewables + EV, Room 12, First floor</b>
4:00 PM - 4:30 PM	<b>Invited Talk</b>	Prof. G. Narayanan
4:30 PM - 4:45 PM	032	Challenges, Opportunities for Demand Response Implementation on Renewable Energy and Smart Grids in India: - A Review
4:45 PM - 5:00 PM	097	Integrated Thermal Analysis of an All-Electric Vehicle
5:00 PM - 5:15 PM	128	A Novel Switched Inductor Switched Capacitor based quasi Switched Boost Inverter
<b>4:00 PM - 5:00 PM</b>		<b>Session 2.4 c: Energy, environment, society, Room 13, First floor</b>
4:00 PM - 4:15 PM	117	Enhancement in Product Value of Potato Through Chemical Pre-treatment and Drying Process
4:15 PM - 4:30 PM	302	Flow Improvement Aspect with Stagger Angle Variation of the Subsequent Rotor in Contra- rotating Axial Flow Turbine
4:30 PM - 4:45 PM	344	Electrochemical Reduction of CO <sub>2</sub> On Ionic Liquid Stabilized Reverse Pulse Electrodeposited Copper Oxides.
4:45 PM - 5:00 PM	370	Energy Efficiency Analyses of a Building Envelope: A Case Study



<b>5:10 PM - 6:10 PM</b>		<b>Session 2.5 a: Biomass and biofuels, Room 11, First floor</b>
5:10 PM - 5:40 PM	Invited Talk	Prof. Pramod Kumbhar
5:40 PM - 5:55 PM	327	Modeling and Simulation of Hollow Membrane Biocatalyst Membrane Reactor
5:55 PM - 6:10 PM	329	Efficient Alkaline Peroxide Pretreatment of Sterculia foetida Fruit Shells for Production of Reducing Sugar: Effect of Process Parameters on Lignin Removal
6:10 PM-6:25 PM	331	Techno-economic Analysis for Production of Biodiesel and Green diesel from Microalgal oil
<b>5:10 PM - 6:10 PM</b>		<b>Session 2.5 b: Nuclear Energy, Room 12, First floor</b>
5:10 PM - 5:25 PM	240	Transient Analysis of Pressurizer Steam Bleed Valves Stuck Open for 700 MWe PHWRs
5:25 PM - 5:40 PM	241	Transient Analysis of Net Load Rejection for 700 MWe IPHWRs
5:40 PM - 5:55 PM	281	Orifice Enabled Flow Stabilization of Natural Circulation Loop at Lower Inclinations
5:55 PM - 6:10 PM	317	Validation of computer code based on Nodal Integral Method against KAPS-2 Phase-B data
6:10 PM - 6:25 PM	345	Performance of Flux Mapping System during spatial xenon induced oscillations in PHWRs
<b>5:10 PM - 6:10 PM</b>		<b>Session 2.5 c: Microgrids and smart grids, Room 13, First floor</b>
5:10 PM - 5:25 PM	014	Development of Power Supply to Isolated Territories of Russia Based on Renewable Energy Sources
5:25 PM - 5:40 PM	101	Multiple Distributed Generation units in Distribution Network with Change of Load
5:40 PM - 5:55 PM	138	Feedback and Feedforward Control of Dual Active Bridge DC-DC Converter Using Generalized Average Modelling
5:55 PM - 6:10 PM	256	Design, Analysis and Hardware Implementation of Modified Bipolar Solid-State Marx Generator
<b>6:15 PM - 7:00 PM</b>	093,141,186,187,195,242,251 269,290,304,314,318,374, 378,383,384,385,387,389 391,395,399,401,404,405,410 411,412,414,415,416	<b>Interaction over Tea for Poster Presentation, Foyer, First floor</b>
<b>7:30 PM - 10:00 PM</b>		<b>Gala Dinner, Gulmohar Lawn</b>

**Day 3, 12 Dec 2019**

Time	Paper Id	Title
<b>8:00 AM - 8:50 AM</b>	<b>Breakfast, Cafeteria, Ground floor</b>	
<b>9:00 AM- 9:30 AM</b>	<b>Invited talk</b>	<b>A. K. Balasubrahmanian, Room 11, First floor</b>
<b>9:30 AM- 10:00 AM</b>	<b>Invited talk</b>	<b>Prof. Jacques Huot, Room 11, First floor</b>
<b>10:10 AM - 11:10 AM</b>	<b>Session 3.1 a: Oil and Natural Gas, Room 11, First floor</b>	
10:10 AM - 10:25 AM	013	CMG Based Simulation Study of Water Flooding Of Petroleum Reservoir
10:25 AM - 10:40 AM	039	Fouling Mitigation in Shell and Tube Heat Exchanger through CFD Simulation
10:40 AM - 10:55 AM	086	Investigations on recovery of apparent viscosity of crude oil after magnetic fluid conditioning
10:55 AM - 11:10 AM	286	Pressure Propagation and Flow Restart in the Subsea Pipeline Network
<b>10:10 AM - 11:10 AM</b>	<b>Session 3.1 b: Solar PV, Room 12, First floor</b>	
10:10 AM - 10:25 AM	077	Modeling of Solar Photovoltaic assisted Electrolyzer-Polymer Electrolyte Membrane Fuel Cell to Charge Nissan Leaf Battery of Lithium Ion Type of Electric Vehicle
10:25 AM - 10:40 AM	121	Simulation Studies on Design and Performance Evaluation of SAPV System for Domestic Application
10:40 AM - 10:55 AM	220	Performance and Degradation Analysis of SunPower SPV modules under Composite Climatic Condition
10:55 AM - 11:10 AM	315	Localized Energy Self Sufficiency (Energy Swaraj) for Energy Sustainability and Mitigating Climate Change
<b>10:10 AM - 11:10 AM</b>	<b>Session 3.1 c: Energy, environment, society, Room 13, First floor</b>	
10:10 AM - 10:25 AM	133	Addressing Last Mile Electricity Distribution Problems: Study of Performance of SHGs in Odisha
10:25 AM - 10:40 AM	248	Effect Of Non-Revenue Water Reduction In The Life Cycle Of Water-Energy Nexus: A Case study
10:40 AM - 10:55 AM	294	Design and development of an economical and reliable Solar Powered Trash Compactor
10:55 AM - 11:10 AM	031	Techno-Economic Optimization Of Isolated Hybrid Energy System
<b>10:10 AM - 11:10 AM</b>	<b>Session 3.1 d: Solar thermal, Room 14, First floor</b>	
10:10 AM - 10:25 AM	102	Novel synthesis of Al <sub>2</sub> O <sub>3</sub> nanoflakes for Ni-Al <sub>2</sub> O <sub>3</sub> composite solar selective coatings
10:25 AM - 10:40 AM	296	Techno-economic analysis of solar tri-generation system based concentrated photovoltaic/thermal collector

10:40 AM - 10:55 AM	307	An Experimental and CFD analysis on Heat Transfer and fluid flow characteristics of a tube equipped with X-shaped tape insert in a U-shaped heat exchanger
<b>11:10 AM - 11:25 AM</b>	<b>Tea Break, Foyer, First floor &amp; Cafeteria, Ground floor</b>	
<b>11:30 AM- 1:00 PM</b>	<b>Session 3.2 a: Grid integration of renewable, Room 11, First floor</b>	
11:30 AM - 11:45 AM	064	Impact of Growing Share of Renewable Energy Sources on Locational Marginal Prices
11:45 AM - 12:00 PM	135	Transient Stability Analysis of Wind Integrated Power Network using STATCOM and Battery Energy Storage System using DIgSILENT Power Factory
12:00 PM - 12:15 PM	239	Dynamic Demand Response through Decentralized Control of Resources
12:15 PM - 12:30 PM	250	Improved Dispatchability of Solar Photovoltaic System with Battery Energy Storage
12:30 PM - 12:45 PM	305	Evaluation of LVRT Control Strategies for Offshore Wind Farms
12:45 PM - 1:00 PM	318	Bi-Polar DC Micro Grid based Wind Energy System
1:00 PM - 1:15 PM	284	Voltage regulation and loss minimization in distribution systems with capacitors and OLTC in presence of a PV penetration.
<b>11:30 AM- 1:00 PM</b>	<b>Session 3.2 b, Thermochemical and hydrogen storage, Room 12, First floor</b>	
11:30 AM - 12:00 PM	<b>Invited Talk</b>	Prof. Yoshitsugu Kojima
12:00 PM - 12:15 PM	116	Effect of Temperature on the Hydrodynamics of Steam Reactor in a Chemical Looping Reforming System
12:15 PM - 12:30 PM	172	Thermodynamic performance analysis of adsorption cooling and resorption heating system
12:30 PM - 12:45 PM	181	Enhanced Reversible Hydrogen Storage in Palladium Hollow Spheres
<b>11:30 AM- 1:00 PM</b>	<b>Session 3.2 c, Solar thermal, Room 13, First floor</b>	
11:30 AM - 11:45 AM	114	Technological Interventions in Sun Drying of Grapes in Tropical Climatic for Enhanced and Hygienic Drying
11:45 AM - 12:00 PM	338	The effect of Concentrator ratio and Thermocouples on Photovoltaic-Thermoelectric Hybrid Power Generation System
12:00 PM - 12:15 PM	360	Multi-Field Solar Thermal Power Plant with Linear Fresnel Reflector and Solar Power Tower
12:15 PM - 12:30 PM	364	Solar autoclave for rural hospitals using aerogel as transparent insulation material
<b>11:30 AM- 1:00 PM</b>	<b>Session 3.2 d, Solar PV, Room 14, First floor</b>	
11:30 AM - 11:45 AM	074	Adaptive Relaying Scheme for a Distribution Network with Highly Penetrated Inverter Based Distributed Generations
11:45 AM- 12:00 PM	211	Substrate-assisted electrosynthesis of patterned lamellar type indium selenide (InSe) layer for photovoltaic application
12:00 PM - 12:15 PM	285	P-type Crystalline Silicon Back Surface Passivation using Silicon Oxynitride/SiN Stack for PERC Solar Cell Application

12:15 PM - 12:30 PM	300	Performance Analysis of Hybrid Photovoltaic Array Configurations under Randomly Distributed Shading Patterns
12:30 PM - 12:45 PM	335	Transitions in the Indian Electricity Sector: Impacts of High Renewable Share
12:45 PM - 1:00 PM	347	Forecasting of Electricity Demand and Renewable Energy Generation for Grid Stability
<b>11:30 AM- 1:00 PM</b>	<b>Session 3.2 e, Wind, hydro, and ocean energy, Room 15, First floor</b>	
11:30 AM - 11:45 AM	009	Wind Speed Forecasting using k-Nearest Neighbour Method for Three Locations in Maharashtra, India
11:45 AM- 12:00 PM	022	Resilience of PV glass coatings to cleaning processes
12:00 PM - 12:15 PM	049	Simulation of Horizontal Axis Wind Turbines using NREL FAST
12:15 PM - 12:30 PM	094	Performance Assessment and Loss Forecasting of Grid Connected Solar PV System
12:30 PM - 12:45 PM	183	Design and Analysis of Hybrid Vertical Axis Giromill Wind Turbine
<b>1:30 PM - 1:55 PM</b>	<b>Lunch Break, Second floor &amp; Cafeteria, Ground floor</b>	
<b>2:00 PM - 3:30 PM</b>	<b>Session 3.3 a, Industry presentations, Room 11, First floor</b>	
<b>2:00 PM - 3:30 PM</b>	<b>Session 3.3 b, Industry presentations, Room 12, First floor</b>	
<b>3:30 PM - 4:00 PM</b>	<b>Tea Break, First floor foyer</b>	
<b>4:00 PM - 5:30 PM</b>	<b>Panel Discussion</b>	<b>Energy Transitions and Energy Security, Main Auditorium, Ground floor</b>
<b>5:30 PM - 6:00 PM</b>	<b>Awards and Concluding Ceremony, Main Auditorium, Ground floor</b>	