

Government of India Ministry of Power Central Electricity Authority

INTERNATIONAL R&D CONCLAVE

Emerging Opportunities and Challenges of RLD in Indian Power Sector

20th-21st, Feb. 2018, Hall No. 5, Vigyan Bhawan, New Delhi

Day 1:	20 th	February	2018
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	Day 1: 20 th February 2018
	8:30 hrs to 9:30 hrs. based on invitation from CEA
10:00-11:00	Welcome Address: Shri. Ravindra Kumar Verma, Chairperson CEA
hrs.	Key Note Address: Shri. A.K. Bhalla, Secretary Power
Inaugural	Address by Chief Guest: Hon'ble Shri R.K. Singh, Minister of Power(I/C)
Session	Vote of Thanks: Shri. Pankaj Batra Member Planning, CEA
	High Tea 11:00 to 11.30 Hrs.
SESSION 1 : I	R&D ACTIVITIES IN THERMAL GENERATION
11:30-13:00	Chaired by: Shri. P. D. Siwal, Member(Thermal), CEA
hrs.	Co- Chaired by: Shri. Gurdeep Singh, CMD NTPC
	Paper 1: Experimental Study On The De-NOx Efficiency Of Various Vanadium Based (V ₂ O ₅)Catalysts For
	Selective Catalytic Reduction(SCR)In Coal Fired Power Plants by BHEL
	Paper 2: Biomass Co-Firing In Indian Power Plants by NTPC
	Paper 3: Coal Plants Flexibility In India : Impact Of Efficiency, Reliability And Life Time by GE
	Paper 4: High Ash Coal Gasification In Fluidized Bed Gasifier: Challenges And Opportunities by CSIR-CIMFR
	Paper 5: Design & Operational Challenges In Flexibilization Of Thermal Powers Plants by TATA POWER
	Paper 6: Updates on R&D of IGCC in Japan <i>by JCOAL</i>
	Paper 7: Flexible Operation Of Thermal Power Plants In India by SIEMENS
SESSION 2 · 1	R&D ACTIVITIES IN HYDRO GENERATION
13:00-14:30	Chaired by: Shri. K. K. Arya, Member(Hydro), CEA
hrs.	Co- Chaired by: Shri Balraj Joshi, CMD NHPC
mo.	Paper 1: First Filling Of Water Conductor Systems-Challenges And Mitigations With Specific Reference To
	Rampur HEP-412 MW by SJVNL
	Paper 2: Alternative Methods For Design Of Support System For Underground Power House Caverns Of
	JTHEP(108MW) DPR Stage by THDCIL
	Paper 3: Innovations Implemented in 720MW Mangdechhu Hydro-Electric Project <i>by MHPA</i> , <i>Bhutan</i>
	Paper 4: Targeted Solution Through Emerging Geophysical Technology In Resistivity Imaging, Seismic
	Tomography & Ground Penetration Radar (GPR) For Optimization Of Geological Uncertainties In Hydropower
	Project by NHPC
	Paper 5: Geological Surprises In Hydro Power Plants/ Projects by Tata Power
	Paper 6: Challenges In Hydro Sector In India by HPA Division CEA
	Paper 7: Design Challenges on Redundancy in Power and Control Circuit of Large Variable Speed Hydro
	Generating Unit by IIT Roorkee-THDC
	Lunch 14:30 to 15:00 hrs
SESSION 3 · I	R&D ACTIVITIES IN RENEWABLE ENERGY
15:00-16:30	Chaired by: Shri. Pankaj Batra, Member(Planning), CEA
hrs.	Co- Chaired by: Shri. Abhay Bakre, DG BEE
1115.	Paper 1: A Snapshot Of Research And Development Projects Undertaken By CPRI during The 12th Five Year
	Plan by CPRI
	Paper 2: Energy Generation And Water Savings From Floating Solar PV (FSPV)Power Plants by Yellow Tropus
	Paper 3: Emerging Issues In Large-Scale Wind Integrated Power Systems And Their Potential Solutions by <i>IIT</i>
	Bombay
	Paper 4: Perovskite-Based Low-Cost And High-Efficiency Solar Cells by BBMB
	Paper 5: Municipal Solid Waste To Energy Power Plant By Feasibility Study Of Waste To Energy Possibility
	In India by MSPGCL
	Paper 6: Economic Energy Storage Solution In Renewable Energy Specifically For India by Vision Mechatronics
	<i>Paper 6:</i> Economic Energy Storage Solution in Renewable Energy Specifically For India <i>by Vision Mechatronics</i> <i>Pvt. Ltd.</i>
	Paper 7: Battery Energy Storage System For Optimum Solar Energy Integration And Enhancement Of Grid
	Security at Andaman Island by NTPC
	Tea 16:30 to 17:00 hrs

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	Day 2. 21 February 2016			
	9:00 hrs. based on invitation from CEA			
SESSION 1 : R&D ACTIVITIES IN TRANSMISSION				
10:00-11:30	Chaired by: Shri I. S. Jha, CMD POWERGRID			
hrs.	Co-Chaired by: Shri. Sandesh Sharma, PCE(I/C), CEA			
	Paper 1: Power Quality Measurement: Importance, Gaps and Technologies by Klovertel			
	Paper 2: Challenges & Achievements Of Indian Transmission Line Industry And Emerging New Global			
	Technologies by Sterlite			
	Paper 3: Power Voltage Transformers: An Innovative Solution For Directly Tapping Power From EHV Lines			
	To Reduce Diesel Consumption For Telecom Towers by Sterlite			
	Paper 4: An Innovative Solution For Online Testing Of Power Transformers by CPRI			
	Paper 5: Unmanned Aerial Vehicle (UAV) Enabled Stringing by Arcturus Business Solutions			
	Paper 6: Fault Current Limiter Selection Considerations For Utility Engineers by Applied Materials India Pvt.			
	Ltd			
	Paper 7: Smart Grid Towards Energy Transition by POWERGRID			
	Tea 11:30 to 11:45 hrs			
SESSION 2 : R&D ACTIVITIES IN GRID OPERATION				
11:45-13:15	Chaired by: Shri K. V. S. Baba, CMD POSOCO			
hrs.	Co- Chaired by: Shri. B. K. Sharma, PCE(I/C), CEA			
	Paper 1: Optimization Of Energy Harvesting From Solar Micro Grids Through Distributed Storage & Vehicle			
	Grid Integration Strategy With Demand Response/Predictive Scheduling Framework by Coimbature Institute Of			
	Technology			
	Paper 2: Reliability Assessment Of Indian Power System For Renewable Integration in 2022 by GE Energy			
	Paper 3: Power Quality Monitoring And Assessment As Per CEA Guidelines by ERDA & SUZLON			
	Paper 4: Enhancing Flexibility Of Transmission System Using Power Flow Controller & Dynamic Line Rating			
	by Sterlite			
	Paper 5: Load Accessed Directional Relay (LADR)- An Innovative Approach To Power System Stability by			
	Odisha Power Transmission Corporation Ltd.			
	Paper 6: Synchronous Rotating Equipment As Backbone For Renewables by Siemens			
	Paper 7: Optimal Generation Mix To Meet The INDC Targets by <i>IRP Division CEA</i>			
	Lunch 13:15 to 13:45 hrs.			
SESSION 3 : R&D ACTIVITIES IN DISTRIBUTION				
13:45-15:15	Chaired by: Shri Rajeev Sharma, CMD PFC			
hrs.	Co-Chaired by: Shri. R.K. Pandey, DG NPTI			
111.5.	Paper 1: New Natural Ester-based Transformer Fluid Development - Evaluation of Technical Benefits in the			
	present Indian context by Savita Polymers Ltd.			
	Paper 2: Evaluation Of Natural Ester Filled Distribution Transformer- Am Emerging Trend by Cargill			
	Paper 3: PQ Issues In CESC's Distribution System by CESC Calcutta			
	Paper 4: How Supply Side Constraints Affect The Rural Residential Feeder Parameters by <i>IIT Bombay</i>			
	Paper 5: Prospects Of DC Microgrid In Tiruvannamalai District, Tamil Nadu by AEC, TGDC & BDU			
	Paper 6 : A Novel Approach For Improvement Of The System Power Factor By Optimally Placed DG and			
	STATCOM In Distribution Systems by KNIT & MMMTU			
	Tea 15:15 to 15:30 hrs			
SESSION 4 : R&D ACTIVITIES IN TRADING/MARKETING AND TARIFF				
15:30-17:00	Chaired by: Dr. Somit Dasgupta, Member(E&C), CEA			
hrs	Co- Chaired by: Shri V. S. Nandakumar, DG CPRI			
ms	Paper 1: India And Cross- Border Energy Trading by NREL			
	Paper 2: Brazil Transmission Market – Experience of concession model by Sterlite			
	Paper 3: Addressing Challenges For Grid Integration Of Renewable Energy In Indian Power System And			
	Framework For Hybrid Renewable Energy Development by IDAM			
	Paper 4: Flexibility In Transmission Switching For Congestion Management by IIT Delhi			
	Paper 5: Long Term Power Purchase Agreements (PPA's) And Its Impact On Coal Based Thermal Power Plants			
	by IRP Division CEA			
	Paper 6: Thermal Power Plant Environmental Compliance at a Much Reduced Cost by LJUNGSTROM			
	Paper 7: General Network Access-The Concept by CERC			
	Concluding Remarks			

Note: -All are requested to be on their seats by 9.45 am.

The event captured in action by POWERGRID

