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*International Conference on*

# **Grid Stability with Enhanced Penetration of Renewables - Technical Challenges & Regulatory Frame Work**

*(In conjunction with CIGRE Steering Committee Meeting)*

*Date: 11<sup>th</sup> – 12<sup>th</sup> January 2024*

*Venue: Hotel Le Meridien, New Delhi*



*Organized by*



## INVITATION



**I.S. Jha**  
President, CIGRE India



**S.R. Narasimhan**  
CMD  
Grid Controller of India Ltd.



**R.K. Tyagi**  
Vice President, CIGRE-India  
Director (Operations), POWERGIRD



**A.K. Dinkar**  
Secretary, CIGRE-India

CIGRE India is honored to host the Meeting of CIGRE Steering Committee at New Delhi on 9<sup>th</sup> & 10<sup>th</sup> January 2024. The meeting of SC shall be followed by an International conference on “Grid stability with enhanced penetration of Renewables - Technical Challenges & regulatory frame work” 11-12 January 2024, wherein leading experts will share their experiences on latest technologies and developments.

We have pleasure in extending a cordial invitation to CIGRE SC members, individuals and institutions concerned for participating in the above important International Conference. We look forward to welcoming CIGRE SC members and others in New Delhi for the above and hope the experience of the participant will be a memorable one.

### CIGRE and the Committee for CIGRE-India

The International Council on Large Electric Systems (CIGRE), with its Headquarters at Paris deals generally in the field of Transmission, Distribution and Renewable Energy. It functions through 16 Study Committees formed for various disciplines of Power Systems. Each Study Committee comprises about 24 experts drawn from various countries. In addition, some more experts are members of the Working Groups/Task Forces formed by these Study Committees. It is a matter of pride that India is represented in all the 16 CIGRE Study Committees as regular observer member.

CIGRE (Paris) has about 14000 members from about 100 countries. Where ever there are more than 40 equivalent members in any country a National Committee is formed with the following aims:

- To disseminate the technical information to the members of the national committee.
- To propose papers for presentation at CIGRE sessions
- To organize representation in CIGRE session / symposia.
- To encourage membership of CIGRE from India.

CIGRE (India) co-ordinates the activities of CIGRE in India, through a number of National Study Committees and disseminates the information about the activities of the CIGRE Study Committees and Working Groups to various organization in India.

### About the Conference

This international conference aims to connect international experts and power system fraternity to deliberate on the latest technological and regulatory developments in the field of Grid stability with enhanced penetration of Renewables.

### Topic

The broad topics to be covered in the technical sessions are:

- (i) Technical challenges - System Planning, Forecasting and Scheduling
- (ii) Challenges in Grid operation with enhanced penetration of renewable energy, Grid Code compliance & monitoring, etc.
- (iii) Support through Regulatory Frame work

## Tentative Programme for International Conference

Thursday, 11 January 2024 (Day 1)		
Sl.No.	Agenda Item	Timings
1	Registration	0800-0930 hrs.
2	Opening Ceremony	0930-1000 hrs.
<b>Tea Break</b>		1000-1030 hrs.
3	<b>Expert Session 1</b> : Requirements of power system planning and flexibility mechanism for high penetration of renewable energy resources	1030-1300 hrs.
<b>Lunch Break</b>		1300-1400 hrs.
4	<b>Expert Session 2</b> : Forecasting and scheduling requirements for handling high penetration of renewable energy resources	1400-1530 hrs.
<b>Tea Break</b>		1530-1600 hrs.
5	<b>Expert Session 3</b> : Grid code compliance monitoring of renewable energy based generation sources	1600-1730 hrs.
6	Welcome Reception	1800-2000 hrs.
Friday, 12 January 2024 (Day 2)		
7	<b>Expert Session 4</b> : Grid Stability issues and importance of accurate power system simulation models with penetration of renewables: Challenges & Solutions	0930-1100 hrs.
<b>Tea Break</b>		1100-1130 hrs.
8	<b>Expert Session 5</b> : Transmission system enhancements for high penetration of renewables	1130-1300 hrs.
<b>Lunch Break</b>		1300-1400 hrs.
9	<b>Expert Session 6</b> : Policy & Regulatory Reforms and design of power system markets for facilitating high penetration of renewables	1400-1530 hrs.
<b>Closing of Conference followed by Tea Break</b>		1530 hrs.
<b>End of Conference</b>		

### Submission of Abstract

For presentation /poster session / publication in the proceedings of the conference the authors may submit their paper/ proposals for the purpose to the contact address given below:

**Shri A.K. Dinkar, Secretary & Treasurer, CIGRE India and Shri Sanjeev Singh, Director, CIGRE-India**

cbip@cbip.org; batra@cbip.org; mukul@cbip.org

Each paper must also indicate the topic that will be addressed. The name, Title, Company, Affiliation, Email and full address and brief CV of the author shall also be given.

Language : The papers must be written in English

#### Time Lines:

- Submission of full-length paper / PPT / Poster : 30th November 2023
- Notification for finally selected papers / PPT / Poster : 15th December 2023

### Who should attend?

- **Participation in the Steering Committee Meetings is restricted to its members only with their own agenda.**

#### Conference :

- Participation in the Conference is open on payment of prescribed registration fee.
- The Conference participants will include top international experts in the field. The Conference will be informative and beneficial for generation, transmission & Distribution companies, system planners, designers, operators, asset owners and managers, equipment developers and manufacturers, research institutions, universities, policy makers and regulators.

## Over All Schedule for the Event

Activity	8 Jan.	9 Jan.	10 Jan.	11 Jan.	12 Jan.
	Monday	Tuesday	Wednesday	Thursday	Friday
Arrival of member of Steering Committee and their companion at New Delhi	✓				
Steering Committee Meeting Gala Dinner		✓			
FN – Steering Committee Meeting AN – National Day			✓		
Technical Visit to ±800 kV multi-terminal, Agra for SC Members				✓	
International Conference - Day 1				✓	
International Conference - Day 2					✓

- The conference will be held on 11-12 January 2024. The Timings for conference will be from 0900 hrs. to 1730 hrs. on both the days.

## Programme for Accompanying Persons

The separate programme including local sightseeing can be organized for accompanying persons. The details of the programme will be made available at the time of registration.

## Registration Fee

All those who wish to participate or present paper in the conference are expected to register in advance by sending the details through email to the organizers along with payment of registration fee as indicated under:

Details	Fees (per participant)	
	SAARC countries (Indian Rs.) excluding GST	Other countries (US\$) including GST
Non – Member fee	20,000	300
Discounted fee for members of CBIP / CIGRE (For list of Members please visit : <a href="http://www.cbip.org">www.cbip.org</a> ; <a href="http://www.cigeindia.org">www.cigeindia.org</a> )	16,000	
Student / Academia Participants*	3,000	

**GST @ 18% shall be charged extra from SAARC countries.**

Please arrange to furnish the details like UTR, Organization name, etc. to CIGRE-India / CBIP Sectt. after making the online payment at the earliest possible.

**Early Bird Fees (up to 30<sup>th</sup> November 2023) for participants from Other Countries is 275 (US\$) including GST.**

**The Members of CIGRE SC will be exempted from payment of registration fee.**

**\*Limited entry restricted to 20 participants on first come first serve basis shall be available for Students / Academia participants.**

The Registration fee covers the registration kit, tea/coffee/lunch during the conference. The conference is non-residential. Participants will have to make their own arrangements for travel, boarding and lodging etc.

Registration alongwith payment of fees can be done through online mode. The link for the same is as under:

[https://docs.google.com/forms/d/1QP9hlgdVHJwfDnezhuaAocbLMb7g1L2MljTSkNzGo8/viewform?edit\\_requested=true](https://docs.google.com/forms/d/1QP9hlgdVHJwfDnezhuaAocbLMb7g1L2MljTSkNzGo8/viewform?edit_requested=true)

## VENUE

Hotel Le Meridien, Windsor Place, Janpath, New Delhi (India)

## Sponsorship Opportunities

The Conference provides an effective opportunity for sponsoring companies to promote their products/services to a focused audience, besides networking with engineers of utility, manufacturers and academic institutions during tea/coffee and lunch intervals. Sponsors are assured of full visibility with printing of their names on proceedings, banners and other publicity material related to Conference and will have the privilege of distribution of their product's pamphlets/catalogues during the Conference. Sponsors will also have the privilege of sending delegates exempted from payment of registration fee as indicated hereunder:

Category of Sponsorship	Fee in Rs.	Free Delegates in Conference	Free editorial in the proceedings
Platinum	10 lakh	10	2 pages
Gold	5 lakh	5	1 page
Silver	3 lakh	3	–
Supporter	2 lakh	1	–

For further details, please contact the Conference Secretariat.

## Call for Advertisements

A limited space for insertion of advertisements in the Conference proceedings is available at the following rates:

Position	Charges for Colour Advertisements	
	SAARC countries (Indian Rs.)	Other countries (US\$)
Back cover page	50,000	600
Second or third cover page	30,000	350
Full page	15,000	250
Half page	7,500	125

## For more details please contact Event Secretariat

**A.K. Dinkar**, Secretary CIGRE India & CBIP

**Sanjeev Singh**, Director, CIGRE India & CBIP

### Contact Person:

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