

International Conference on

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

(In conjunction with CIGRE Steering Committee Meeting)

Date: 10th – 11th 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), POWERGRID



A.K. Dinkar
Secretary, CIGRE-India

CIGRE India is honored to host the Meeting of CIGRE Steering Committee at New Delhi on 9th 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, there were 827, 820 & 800 equivalent members for CIGRE in the year 2018, 2019 and 2020 respectively.

CIGRE (India) is an affiliate of Central Board of Irrigation and Power. It is the Indian National Committee of CIGRE and is a registered society. It 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
- (ii) Impact of Cost involvement in Operation
- (iii) Support through Regulatory Frame work
- (iv) Balancing of Grid with enhanced penetration

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. |
| Tea Break | | 1000-1030 hrs. |
| 3 | Expert Session 1 : Requirements of power system planning and flexibility mechanism for high penetration of renewable energy resources | 1030-1300 hrs. |
| Lunch Break | | 1300-1400 hrs. |
| 4 | Expert Session 2 : Forecasting and scheduling requirements for handling high penetration of renewable energy resources | 1400-1530 hrs. |
| Tea Break | | 1530-1600 hrs. |
| 5 | Expert Session 3 : 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 | Expert Session 4 : Grid Stability issues and importance of accurate power system simulation models with penetration of renewables: Challenges & Solutions | 0930-1100 hrs. |
| Tea Break | | 1100-1130 hrs. |
| 8 | Expert Session 5 : Transmission system enhancements for high penetration of renewables | 1130-1300 hrs. |
| Lunch Break | | 1300-1400 hrs. |
| 9 | Expert Session 6 : Policy & Regulatory Reforms and design of power system markets for facilitating high penetration of renewables | 1400-1530 hrs. |
| Closing of Conference followed by Tea Break | | 1530 hrs. |
| End of Conference | | |

Submission of Abstract

For presentation /poster session / publication in the proceedings of the conference the authors may submit their abstract 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 synopsis must 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 Abstract : 15th October 2023
- Notification for Abstracts : 3rd November 2023
- Last date of receipt of full-length paper/PPT/Poster : 15th December 2023

Who should attend?

- Participation in the Steering Committee Meetings is restricted to its members only. Invitees in the form of observers can also be allowed on specific invitation from Secretary, CIGRE-India with the permission of Chairman of CIGRE Study Committee.

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 there companion at New Delhi | ✓ | | | | |
| 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 participation in the Steering Committee Meetings is restricted for members only as they have their own agenda to discuss.
- 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 shall 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:

1. Non – Member fee is Rs. 20,000/- per participant
2. Discounted fee for members of CBIP / CIGRE is Rs. 16,000/- per participant
(For list of Members please visit : www.cbip.org; www.cigeindia.org)
3. Companion / Student / Faculty is Rs. 6,000/- per participant

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

GST @ 18% shall be charged extra.

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

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 Fee can be paid through cheque in favour of “CIGRE India” or through bank transfer. The Details for the same are as under:

| | | | |
|---------------------|---|----------------------|-----------------------------|
| Vender Name | THE COMM FOR INTL CONF ON LHVES | | |
| Bank Name & Branch | Canara Bank/ Delhi Diplomatic Enclave | | |
| Branch Address | 7/48, Malcha Marg, Chanakyapuri, New Delhi-110021 | | |
| IFSC code of branch | CNRB0000157 | MICR No. : 110015007 | Account No. : 0157101031491 |
| Type of account | Special Saving Account | PAN No. : AAAAZ0260A | GSTIN : 07AAAAZ0260A1Z1 |

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 | 10,00,000 | 10 | 2 pages |
| Gold | 5,00,000 | 5 | 1 page |
| Silver | 3,00,000 | 3 | – |
| Supporter | 2,00,000 | 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 |

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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Central Board of Irrigation & Power (CBIP)

Malcha Marg, Chanakyapuri, New Delhi -110 021

Phone: 011-26115984/ 26116567; Fax: 011 2611 6347; E-mail: cbip@cbip.org

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Technical Challenges & Regulatory Frame Work**
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REGISTRATION FORM

(please send this form to CIGRE- India : Email : mukul@cbip.org, cbip@cbip.org Fax : 91-11-26116347)

- Delegate Name & Designation :
- Organisation:
- Address for Correspondence.....
- Phone..... Fax..... E-mail :
- Accompanying person if any :

For International participants and their companion guest, additional details are required apart from the above information:

Passport Details

| | |
|--|----------|
| Full Name : As Mentioned in the Passport | |
| Birth Date | |
| Place of Birth | |
| Passport No. | |
| Date and place of issue | |
| Expires | |
| Nationality | |
| Dates of stay in India | |
| Complete postal address to be mentioned on invitation letter | |
| Willing to join Technical Visits | Yes / No |