

CIGRE

The International Council on Large Electric Systems

Conseil International des Grands Réseaux Électriques

ABOUT CIGRE

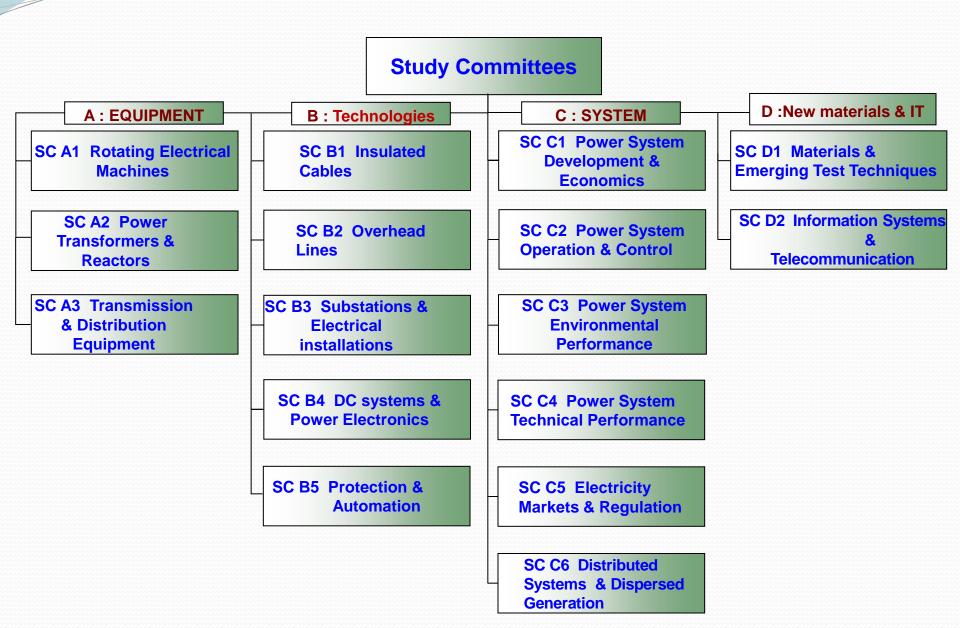
- CIGRE was Founded in 1921 at PARIS and it is an International organisation for development of Electric Power System.
- It has world wide network of experts from Generation, Transmission, Distribution cos. & System Operators as well as Regulators; Manufacturers; Academicians; Consultants, etc.
- It has about 10,000 members from around 95 countries.
- CIGRE is basically focused on practical applications of Power System.
- As a major benefit, CIGRE Members are provided Free online access to 9000 valuable technical publications based of studies carried out by its experts

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AIMS & OBJECTIVES

- CIGRE aims to promote & organize collaboration with experts in power system.
- To produce unbiased high-quality technical information through Publications e.g. Technical Brochures, Papers in the ELECTRA journal,
- Session/Symposia Papers. Exchanges technical knowledge with partners of CIGRE (IEC; IEEE, CIRED).
- It organize's, every two years, a conference known as a 'Session held in Paris.
- In the non Session year it organizes 'Symposia' spread in various locations around the world.
- Through it's sixteen 'Study Committees' (each with multiple 'Working) Groups') it carries out and encourages international studies, coordinated by the CIGRÉ 'Technical Committee'.
- These 16 technical Study Committees, are consisting of 24 members from different countries
- 250 Working Groups on the avergae produce about 50 Technical Brochures per year.

Four Groups of CIGRE Study Committees



ABOUT CIGRE INDIA

- CIGRE-India has been a member of CIGRE Paris since 1949 and on the Administrative Council of CIGRE Since 1970.
- The CIGRE India is Head Quartered in CBIP Building at New Delhi, which is also the Head Quarter for 10 other International Societies
- It functions as the National Committee for CIGRE with same objectives as of CIGRE, relevant to the Indian requirements.
- Affairs of CIGRE-India are administered by its General Body / Governing Council
- National Committee coordinates various CIGRE activities in India like Membership; Meetings of NSCs and Organises International & National Events and Training for dissemination of knowledge.

Governing Body of CIGRE-India

President -CIGRE(India)



I.S. Jha, CMD, POWERGRID

Vice- Presidents



A.K. Gupta Director, NTPC



S. Balakrishanan Director, BHEL



Seema Gupta Director, Powergrid

CIGRE AORC



Dr. Subir Sen ED. POWERGRID

Secretary



Mr. P.P. Wahi Director, CBIP

Technical Council





R.P. Sasmal Former Dir. Powergrid

Vice-Chair



N.N. Misra Former Dir. NTPC

Secretary CIGRE - India



Mr. V.K. Kanjlia Secretary, CBIP

Chairpersons of CIGRE - India National Study Committees (NSC) 2018 - 2020



Seema Gupta
Director, Powergrid
Chairperson CIGRE NSC A2



B.B. Chauhan MD, GETCO Chairman CIGRE NSC C4



K.V.S. Baba CMD, POSOCO Chairman CIGRE NSC C2



Subir Sen ED, Powergrid Chairman CIGRE NSC C6



Jithin Sunder ED, BHEL Chairman CIGRE NSC D1



P.K. Aggarwal
Dir., POSOCO
Chairman CIGRE NSC C5



R.K. Chauhan ED, Powergrid Chairman CIGRE NSC B4



R.K. Tyagi GM, Powergrid Chairman CIGRE NSC A3



B.N. De Bhomick GM, Powergrid Chairman CIGRE NSC C3



Anish Anand GM, Powergrid Chairman CIGRE NSC 82



Ashok Pal GM, Powerg rid Chairman CIGRE NSC C1



Rajil Srivastava AGM, Powergrid Chairman CIGRE NSC B3



N.S. Sodha
Ex. ED, Powergrid
Chairman CIGRE NSC D2



D.K. Chaturvedi AGM, NTPC Chairman CIGRE NSC A1



Subhas Thakur

AGM, NTPC

Chairman CIGRE NSC 85



Lalit Sharma COO, KEI Chairman CIGRE NSC B1

CIGRE SC Meetings Organized and Planned in India

CIGRE Meetings organized in Year 2014 - 2017

CIGRE SC D2 on Information & telecommunications

CIGRE SC B4 on HVDC

CIGRE SC B1 on Insulated cables

CIGRE Meetings being held in 2019

SC A1
(Rotating Electricals Machines
22-28 Sept. 2019
New Delhi

- SC A2 (Transformers);
- SC B2 (Overhead Lines) &
 - SC D1 (Materials)

18-23 Nov. 2019, New Delhi

Meetings Planned to be hosted in 2021

- SC A3 High voltage equipment;
- SC B3 Substation;
- SC B5 Power System Protection;
- SC C2 System Operation;
- SC C5 Markets & Regulations;

Available Seats in Steering Committee of CIGRE:

12 by membership + 3 by election

Seats	For Europe		For America		Africa & Middle east		Pacific & Asia	
12	6		2		1		3	
	UK	718	Brazil	1081	GCCNC	208	China	1041
	Russia	683	US	806			Japan	802
	Germany	669					Australia	554
	France	568						
	Switzerland	408						
	Italy	337						

Based on Membership India is likely to get seat in Steering Committee during session 2018

Membership Growth

Category	2016		2017		2018	
Collective 1	69X6	414	91X6	546	66X6	396
Collective 2	11X3	33	19X3	57	15X3	45
Individual	152	152	151X1	151	151X1	151
Young	24X0.5	12	28X0.5	14	28X0.5	14
Total		611		768		606 So far

The Ambitious Plan for achieving the target for membership of 1000 in the year 2018.

CIGRE Membership 2018 - Renewal Pending

POWERGRID - 4 nos
NTPC - 10 Nos
BHEL - 3 Nos.
ВВМВ
Maharashtra Electricity Trans. Co. Ltd.

Other Organisation – 15 Nos.

- Bajaj Electricals Ltd
- Hyosung T &D India pvt. Ltd.
- The Tata Power Company Ltd
- · Cargill India Pvt. Ltd.
- Sterlite Power Transmission Ltd.
- · Amitasha Enterprises Ltd.
- EMC Ltd.
- Gupta Power Infrastructure Ltd.
- Omicron Energy Solution Pvt. Ltd.
- Siemens Itd.
- Switchgear & Structural (I) Pvt. Ltd.
- Supreme & Company Private Limited
- Tata Power Delhi Distribution Limited
- The India Fruits Pvt. Ltd.
- Toshiba T & D Systems (I) Pvt Ltd

We request these organizations to kindly expedite renewal of their membership

Why it is beneficial to join CIGRE activities?

- Access to over 9,000 latest CIGRÉ technical reports.
- Receipt of Bimonthly journal, ELECTRA, with technical articles and reports.
- Opportunities to participate & present papers at CIGRE sessions held at PARIS on discounted registration fee.
- Opportunity to participate in CIGRÉ working groups and study committees, which include about 2,000 experts.
- Association with worldwide network of experts which will result in accentuation of knowledge and high return for your organization.
 - Access to CIGRÉ's membership directory available on CD-ROM – provides a link to all members and is an essential tool for extending professional contacts.

MEMBERSHIP CATEGORY & FEES

Category	Annual Fees (Rs.) excluding GST
Collective Members (I) (Companies of industrial and commercial nature)	65,000.00 6 members get benefit of discounted fee for CIGRE Session
Collective Members (II) (Universities, Engg. Colleges and Tech. Inst. & Regulatory Commissions)	25,000.00 3 members get benefit of discounted fee for CIGRE Session
Individual Members	7,500.00
Young Members (Below 35 Years Of Age)	3,750.00

CIGRE SESSION 2018 26-31 August 2018 Paris

- Synopsis Reviewed by CIGRE India 150
- Synopsis Submitted from India 30
- Participants Registered 144
- Total participants including Accompanying Persons & Exhibitors = 200 Nos

Exhibitors from India:

• Scope T&M	- Stand No. 168
beope ram	btulla 110. 100

- CTR Manufacturing Co. Stand No. 125
- KalkiTech Stand No. 131
- Karamtara Engineering Pvt. Ltd Stand No. 276
- KSE Electricals Stand No. 241
- Tag Corporation Stand No. 169

PROGRAMME - CIGRE SESSION-2018

SOCIAL EVENTS				LOCATION

Sunday 26 August	17:00 - 18:30	Welcome drinks for opening ceremony - Attendees only!	Level 1
Monday 27 August	18:00 - 20:00	Cocktail dinner	Lovel 1 2 0. 2
Monday to Friday	AM & PM	Coffee breaks will be held each mid-morning and mid-afternoon	Level 1, 2 & 3
		Cocktail dinner at "Cité de la Mode et du Design"	34, quai

Thursday 30 August For fully registered delegates and companions - Invitations to be collected 19:30 - 23:00 d'Austerlitz at the "Delegate's Reception Desks" 75013 Paris

TECHNICAL EXHIBITION

LOCATION

Monday	9:00 - 20:00
Tuesday to Thursday	9:00 - 18:00

9:00 - 16:00

For more details on the technical exhibition: www.cigre-exhibition.com

Level 1, 2 & 3

ASSOCIATION MEETING

Monday 27 August

Friday

13:15 - 14:15

Presentation of the results of the General Assembly of June 30, 2018

PROGRAMME-CIGRE SESSION-2018

	OPENING CERE	ROOM	LEVEL	
Sunday 26 August	16:00	Opening Ceremony:) CIGRE President Opening Speech) Keynote Speaker: Mrs. Audrey ZIBELMAN, CEO, Australian Energy Market Operator Future electricity markets and business models	Grand Amphithéâtre	0
) Welcome drinks	Hall Ternes	1
	TECHNICAL ME	ETINGS SCHEDULE		
	8:45 - 12:00	Opening Panel: The future sustainable power system: organic, disruptive and secure	Grand Amphithéâtre	1
Monday 27 August 14:30 - 18:00		Workshop - Large Disturbances: Part 1: Market disturbances Part 2: System disturbances	Bleu	2
	14:30 - 18:00	NEW Conference: Integrated power system: changing from consumers to prosumers	Grand Amphithéâtre	1
	14:30 - 18:00	Poster Sessions A1 & B4	Hall Ternes	1
		A1: Rotating electrical machines	Havane	3
Tuesday	8:45 - 18:00	B4: HVDC and power electronics C4: System technical performance	Grand Amphithéâtre	1
	8:45 - 18:00	C4: System technical performance	Bordeaux	3
28 August		C6: Distribution systems and dispersed generation	Bleu	2
	9:00 - 12:30	Poster Sessions A3 & B5	Hall Ternes	1
	14:30 - 18:00	Poster Sessions C5 & D1	Hall Ternes	1

PROGRAMME-CIGRE SESSION-2018

Contd...

	11:00 - 14:00		Next Generation Network Forum	342A	3
			A3: High voltage equipment	Bordeaux	3
Wednesday	8:45 - 18:00	Z	B5: Protection and automation	Grand Amphithéâtre	1
	8:45 - 18:00	CD	C5: Electricity markets and regulation	Havane	3
29 August			D1: Materials and emerging test techniques	Bleu	2
33	14:00 - 15:30		B4 & CENELEC Workshop: System aspects of HVDC grids		
	9:00 - 12:30		Poster Sessions A2 & B3	Hall Ternes	1
	14:30 - 18:00		Poster Sessions C2 & D2	Hall Ternes	1
	11:00 - 14:00		CIGRE Women in Engineering Forum	342AB	3
		Ă	A2: Transformers	Bleu	2
	8:45 - 18:00	Σ	B3: substations	Grand Amphithéâtre	1
Thursday		CD	C2: System operation and control	Bordeaux	3
30 August			D2: Information systems and telecommunications	Havane	3
August	15:30 - 17:00		A3 & B4 Workshop: DC circuit breakers		
	9:00 - 12:30		Poster Sessions B1 & C1	Hall Ternes	1
	14:30 - 18:00		Poster Sessions B2 & C3	Hall Ternes	1
	9:00 - 12:00		B3 Workshop: Safe working in substations		
			B1: Insulated cables	Bleu	2
Friday	8:45 - 18:00	Z	B2: Overhead lines (morning)/Joint B2 & C3 (afternoon)	Grand Amphithéâtre	1
31 August		CD	C1: System development and economics	Bordeaux	3
August			C3: System environmental performance	Havane	3
	9:00 - 12:30	•	Poster Sessions C4 & C6	Hall Ternes	1

PROGRAMME-CIGRE SESSION-2018

TUTORIALS

Monday 27 August	8:30 - 10.20 10:40 - 12:30 14:00 - 15:50 16:10 - 18:00	 B5: Challenges and solutions for the maintenance of fully digital substation B4: HVDC planning, technology selection and specification A2: Transformer ageing, failures, and forensics D2: Framework for EPU operators to manage the response to a cyber-initiated threat
Tuesday 28 August	8:30 - 10.20 10:40 - 12:30 14:00 - 15:50 16:10 - 18:00	C1: CIGRE feasibility study of a global electricity network D1: Guidelines for altitude correction of pollution performance of insulators A3: Switching equipment C5: Global overview of demand response markets and regulations
Wednesday 29 August	8:30 - 10.20 10:40 - 12:30 14:00 - 15:50 16:10 - 18:00	C4: Recent advances in the application of synchrophasor technology C2: System operation emphasising DSO/TSO interaction and co-ordination C6: Application of battery storage systems in distribution systems B3: Contemporary cost-effective substation design
Thursday 30 August	8:30 - 10.20 10:40 - 12:30 14:00 - 15:50 16:10 - 18:00	B2: Experience with the mechanical performance of non-conventional conductors A1: Revisiting the fundamentals of magnetic saturation B1: Fault location on land and submarine links C3: EMF - time to reassure

Indian Evening for Networking and Dinner on 29th August 2018 at Hotel Hyatt, Paris

- CIGRE India is organizing an Indian Evening for Networking and Dinner on 29th August 2018 at 19:30 PM in the Hyatt Regency Paris Etiole, next to Palais de Congress, the venue of CIGRE Session.
- About 200 participants including Steering Council, Technical Council, Key experts as also the office bearers of CIGRE (Paris) are expected to Participate.

Sponsoring Organizations:					
ABB	Secure Meters				
Raychem	CTR manufacturing Cos.				
Taurus Powertronics	CESC				
The support from Other Organisations is Welcome					

Thank You

For details pl. Contact: cbip@cbip.org;

Vishan Dutt, Chief Manager: 9811431554

www.CIGREindia.org