

CIGRE highlights

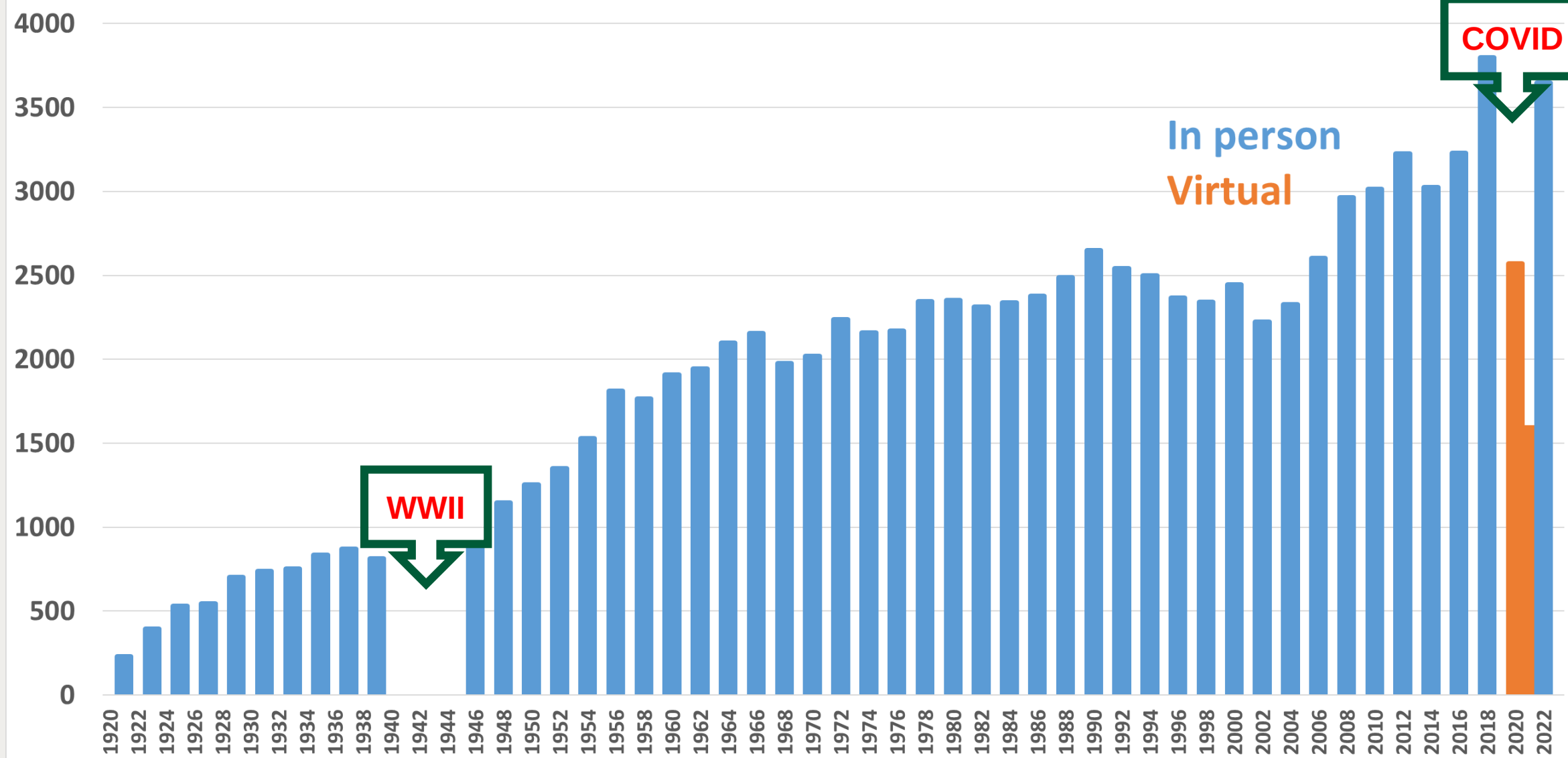
Philippe ADAM, Secretary General of CIGRE



A brief history of CIGRE from 1921 to 2021

- 1921 : a **conference**, Conférence Internationale des Grands Réseaux Electriques = CIGRE, (International **Conference** on Large Electric Systems), created to **prepare for standardisation** in the sector stimulated by the post-war economy,
- 1931 : established by French Law as **non for profit** association
- 2000 : Legal name = International **Council** on Large Electric Systems
- 2018 : branding campaign : CIGRE the **brand name** no longer an acronym
- CIGRE dedicated to “**Power System Expertise**” promoting exchanges and facilitating the collaboration on topical issues,
 - ✓ Electrification of territories (1920 - 1950)
 - ✓ Transmission and interconnection (1950 - 1990)
 - ✓ Electricity markets (1990 - 2010)
 - ✓ Energy transition (2010 - 2030)

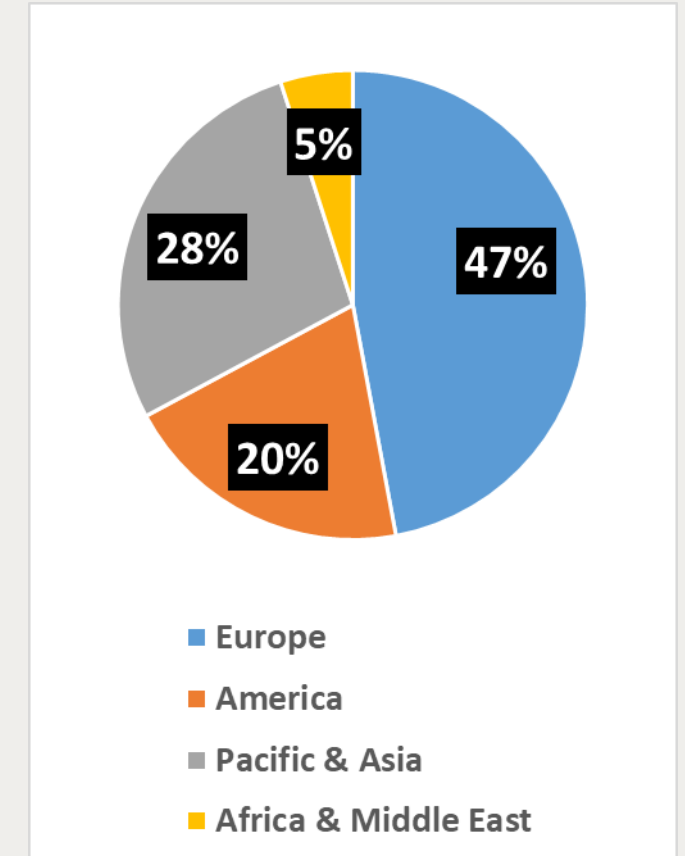
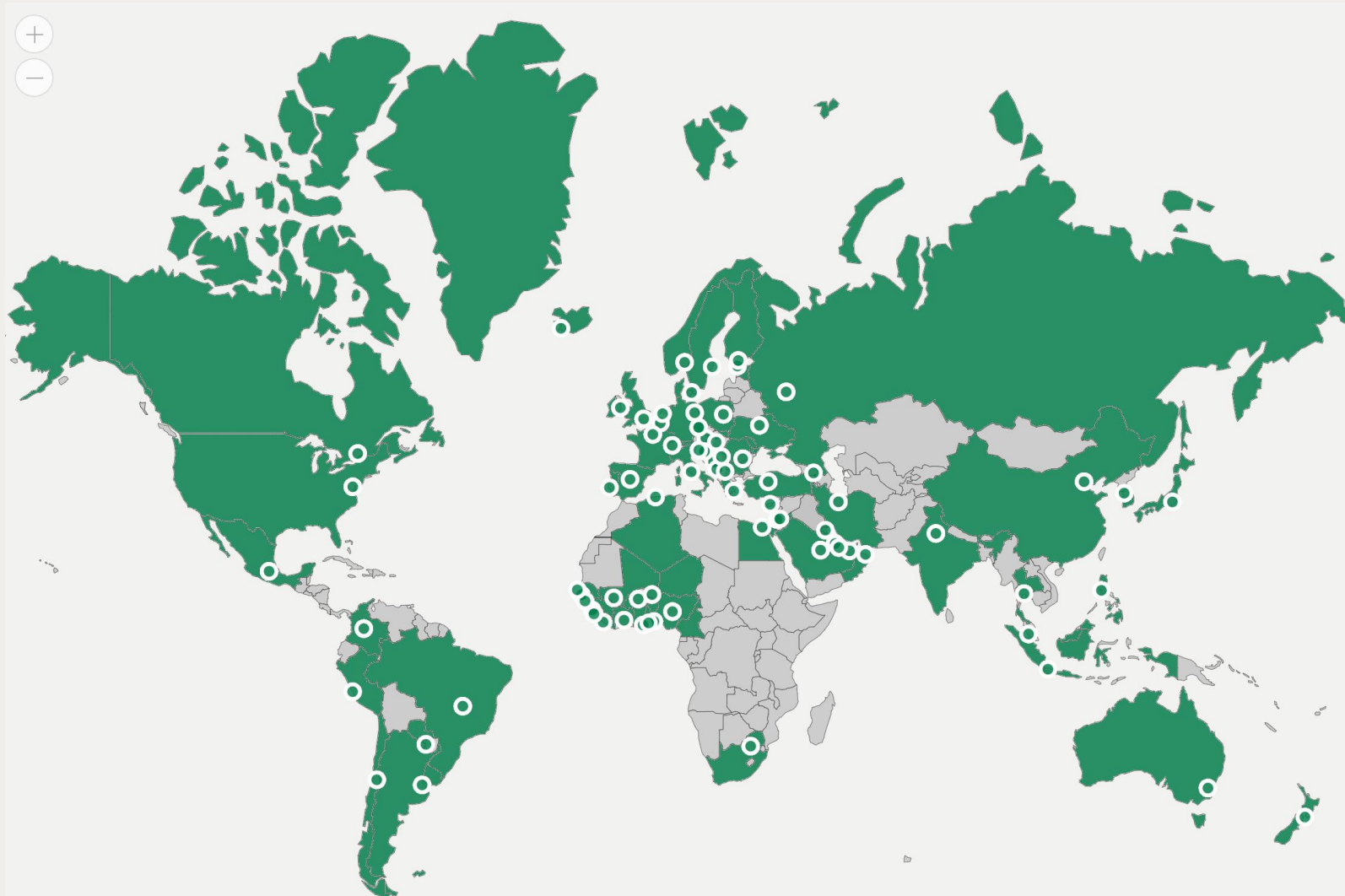
CIGRE Paris Session attendance



CIGRE Session, Palais des Congrès de Paris, August 28, 2022



The CIGRE community in 2022 = 61 National Committees

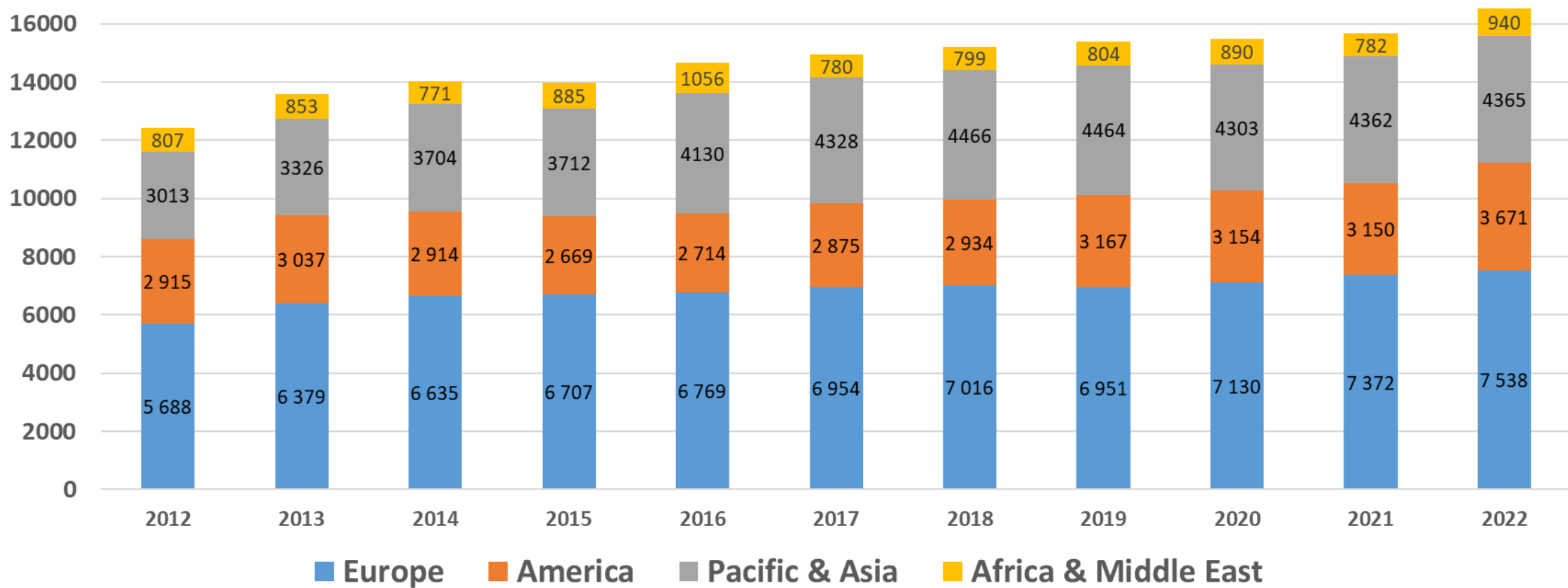


CIGRE members' profiles

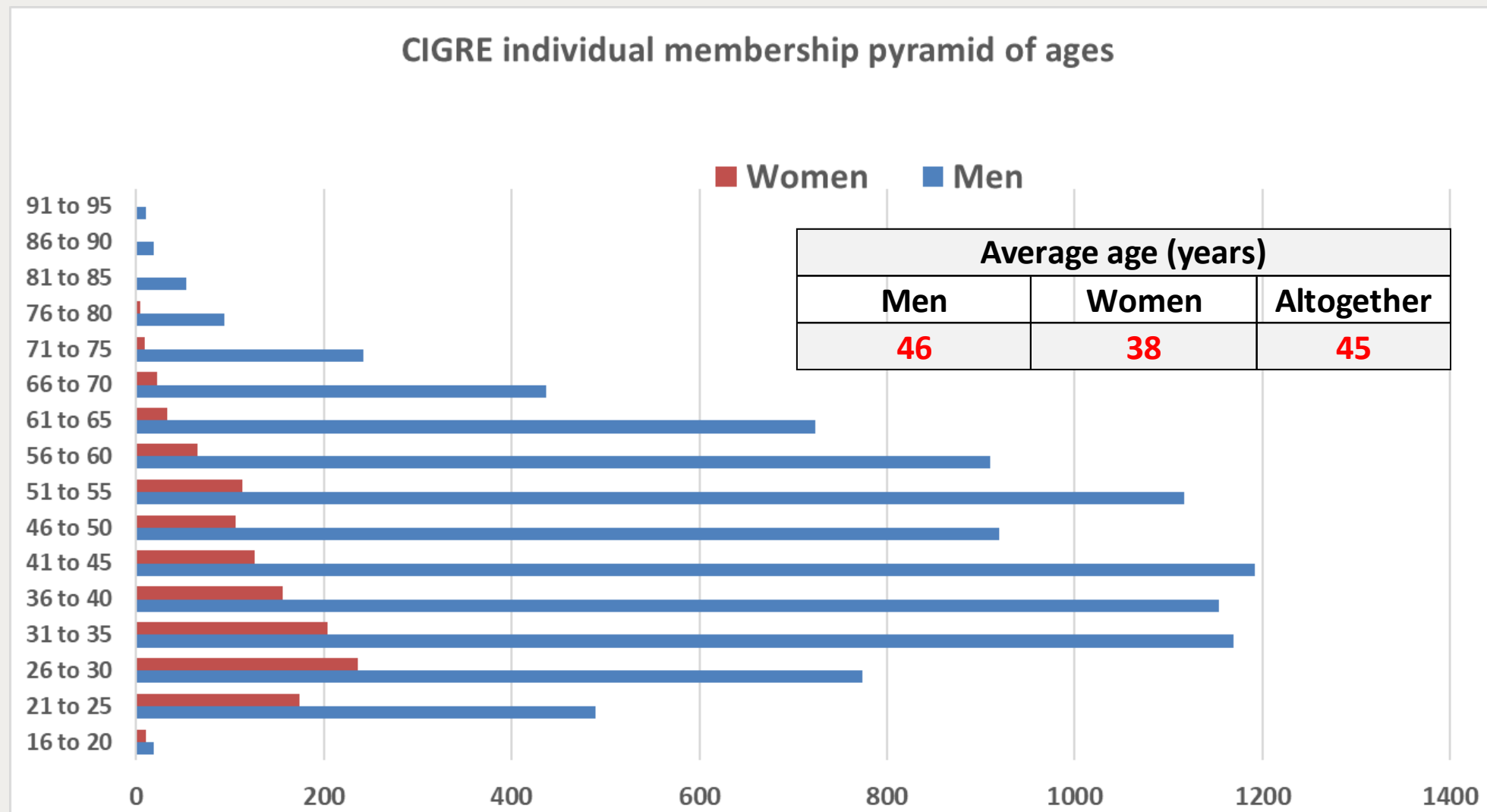
- Operators:
 - Transmission Systems (TSO)
 - Distribution Systems (DSO)
 - Power generators
 - Utilities
 - Independant Systems (ISO)
 - T&D asset owners
 - Power markets
- Technology providers:
 - Transmission equipement
 - Distribution equipment
 - Information & communication
- Consulting companies
- Testing laboratories
- Research centres
- Universities
- Regulators
- Professional associations

CIGRE equivalent membership 2012 - 2022

**EVOLUTION OF CIGRE MEMBERSHIP
(equivalent numbers per region)**



CIGRE individual membership pyramid of ages



CIGRE's 16 domains of work = 16 Study Committees



More than 260 active Working Groups

Edition and publication

ELECTRA
CIGRE's Digital magazine



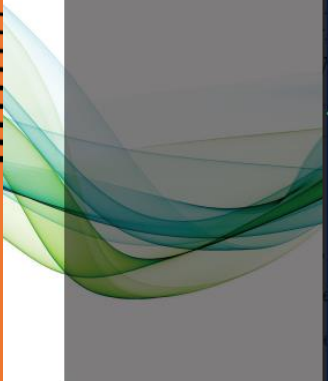
 **ELECTRA** ©2023 - CIGRE

**CIGRE SCIENCE
& ENGINEERING**



 **CIGRE SCIENCE
& ENGINEERING** ©2023 - CIGRE

B3 Substation and elec
A3 Transmission distribut



Guidelines for S
treatment of T&
in substations

 **TECHNICAL BR**
August 2023 - Refe

CIGRE Green Books
Compact Studies

CIGRE Study Committee B

Peter Bishop
Nirmal-Kumar C. Nair Ed

IEC 6185
Principles
Application
to Electr
Systems

 **cigre**



before 30 June each year

In the case of CIGRE, the
must also approve the ne
the Paris Session.

In Session years, the Ger
for the next two years.

This year, the Ordinary G
rate of 6.7%, the lowest r

Nevertheless, all four res
Administrative Council we
from 91.2% to 98.2%.



Dear Reader, Dear Colleagues,

This issue of the Future Connection
addressed contributions from Study
Installations, and D2 on Information
special topic, we will introduce to yc
seven new Study Committee (SC) C

 **Sp**



The latest from the world of C
innovations, new tech and the
technical challenges of the po



July 2022



Editorial
By Michel Augonnet, President of CIGRE

Dear Colleagues:

As the year 2022 moves forward, we are getting closer to the
CIGRE in-person Session in Paris. I sincerely hope that we will
have the pleasure to meet during the various exchanges that will be taking place.

This year's Session contributions have been incredible in number and quality, and
enhanced by two years of distancing.

This edition of Leadership Circle includes considerations about the risks and challenges
associated with a high pace of deploying a carbon neutral grid:

- An article by Dr. Shay Bahramirad, Senior Vice President of Engineering and Asset Management at LUMA Energy (Power Company in Puerto Rico) & President-Elect of IEEE Power and Energy Society
- Topic: The urgency of rebuilding the grid that could outpace the readiness of the transition, and inadvertently exacerbate inequalities and reduce resilience during an overzealous transition period.

Events organised by CIGRE

In total, several hundreds of CIGRE events per year

- **Paris Session** in even years, the reference congress for all members organized by the Central Office (CO) (3,700 delegates from 95 countries in 2022)
- **Symposia**, two per odd years outside of Paris, organised by one National Committee (NC), the Technical Council (TC) and the CO
- **Colloquia** organised by a Study Committee in association with a NC
- **Regional conferences** organised by groups of NCs
- **National Conferences** organised by NCs
- **Webinars** organised by the Study Committees with the CO or by the NCs

CIGRE Strategic Plan - 2023 to 2030 horizon - Why?

- The energy transition will have disruptive, challenging, and exciting changes.
- CIGRE sees the power industry on an expansive track, in terms of its scope and range of activities.
- CIGRE is a leading platform for knowledge sharing, a true on-line laboratory to assist innovators in the development of suitable products for a sustainable future of our planet.
- CIGRE is well positioned to meet these challenges with its fundamental neutrality for knowledge sharing.
- CIGRE proposes this 2023 revision for its Strategic Plan with a horizon of 2030 to ensure its leadership for power system expertise for its stakeholders, and for societal needs for electricity.

CIGRE Strategic Plan - Core Goals Continued...

- Facilitating and developing the exchange of engineering and electricity market knowledge and information on power systems.
- Adding value to knowledge and information exchanges by synthesizing state-of-the-art and global best practices.
- Contributing to the promotion of social sustainable development.
- Developing guidelines and information to aid the emergence of new technologies and techniques.
- Fostering growth and development opportunities for the future workforce needed for the energy transition.
- Growing membership and member services to fulfill our Purpose, Vision, Mission, and Values.

CIGRE to meet the future of the Energy Transition

Provide greater visibility
to the following topics:



Digitalisation

[VIEW](#)



**Solar PV
and Wind**

[VIEW](#)



Storage

[VIEW](#)



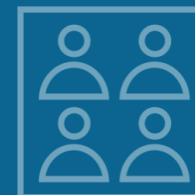
Hydrogen

[VIEW](#)



**Grids and
Flexibility**

[VIEW](#)



**Consumers,
Prosumers and
Electric
Vehicles**

[VIEW](#)



**Sustainability
and Climate**

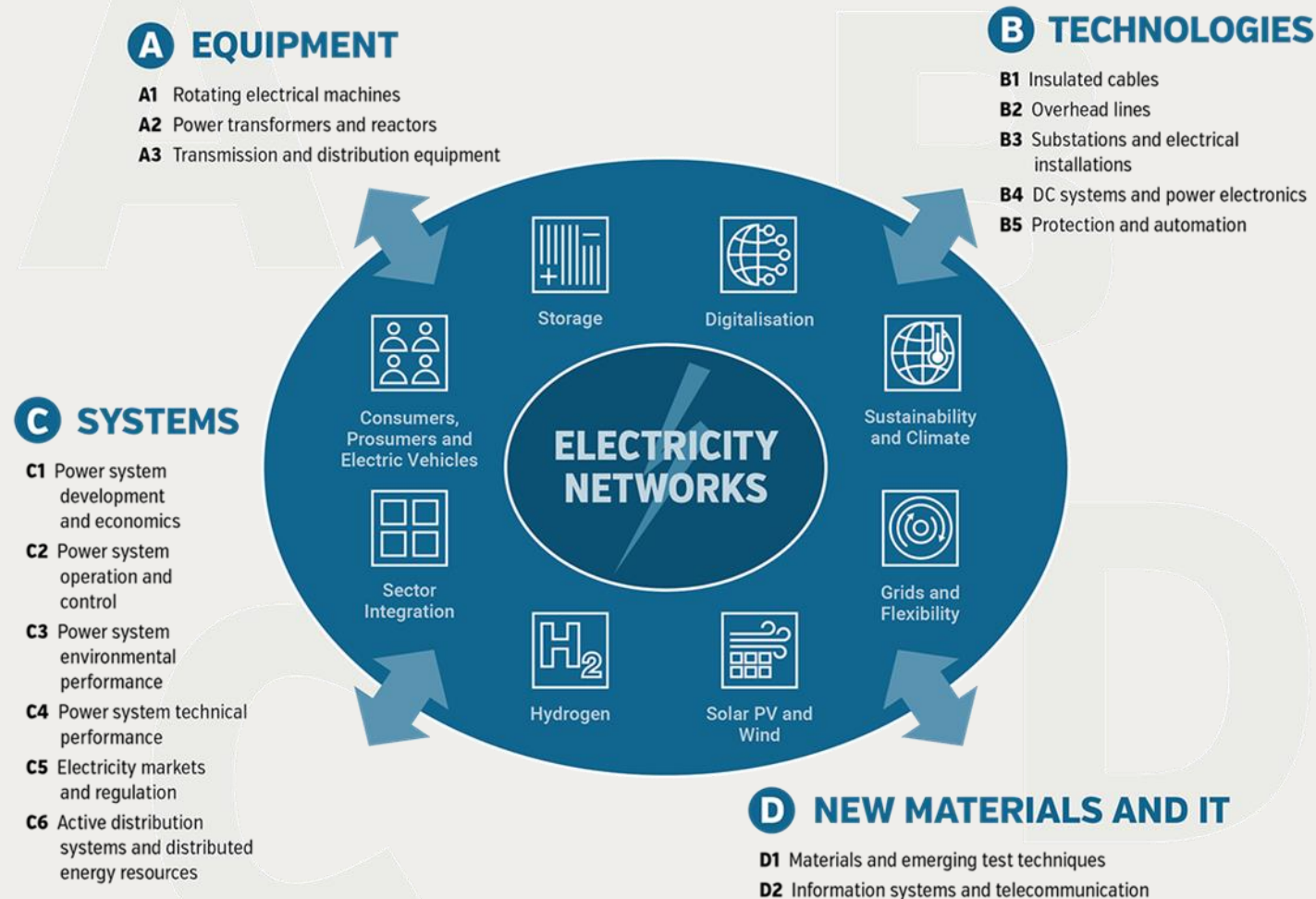
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**Sector
Integration**

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CIGRE and the Energy Transition



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<https://e-cigre.org>

<https://join.cigre.org>

<https://session.cigre.org>