

Power system engineering has entered a new age



Today's professionals need access to end to end power system expertise

The modern power system is transitioning into one complex and interrelated grid, with the lines between generation, transmission and distribution increasingly blurred. The power system is also decentralising and introducing an array of new technologies. From big data, distributed energy resources and cyber security to micro grids, renewables and storage, a major evolution is underway.

With these changes today's professionals need access to diverse perspectives that have a holistic view, and that offer the full spectrum of low through high voltage knowledge. One such association offers this and it has the end to end scope and solutions you need.

The preeminent global technical community – CIGRE

As a not for profit volunteer organisation CIGRE offers you the opportunity to access the full spectrum of power system knowledge, in one unique place. We have a diverse global community of thousands of professionals, developing technical material collaboratively on every conceivable subject, across all aspects of the power system.

Our end to end knowledge programme spans 16 comprehensive domains of work and offers many avenues to finding solutions,

including the world's leading working groups, tutorials, networking opportunities and technical materials.

Whether it's collaborating with thousands of experts and peers from around the world, being a part of our thought leadership congress, the massive 'Paris Session', or downloading one of thousands of our definitive technical publications, you will find a CIGRE membership unique and invaluable.

Our doors and minds are open

So no matter who you are, or where you are from, If you, or your organisation want to get the technical edge, its simple. Join CIGRE, the foremost global community. Our doors, as our minds, are open. We look forward to collaborating with you for the sustainable good of end to end power system expertise.

> cigre.org/E2E



cigre

For power system expertise



Perspectives from every corner of the globe

Whether it's Ireland's renewables connected at the distribution level, China's perfection of ultra-high voltage, South Korea's best practice distribution automation, the complexities of Australia's energy market, or Brazil's evolving market, the global scope and diversity of CIGRE perspectives are unequalled. Even better, all this is presented in thousands of definitive publications available to all members for free!

Real world practical expertise

CIGRE people come from across the whole industry and work in the real world inside the modern power system. They share practical experiences and challenges, together solving them within a global knowledge programme.

At CIGRE if you have problem, don't worry, someone has probably already worked on it somewhere, and if not, they will want to.

Being a part of CIGRE means you can share your challenges and access the lessons and successes of the world, reducing risk, saving time and money.



We are organised for the future power system

CIGRE is organised to deal with all current and future electric power system evolution. Our work spans 16 core domains of work, the scope includes more than 250 working groups, spanning the E2E power system.

Domains of work span from information technology and emerging materials, through system equipment (including generators) and technologies. They also include all aspects of power system development, economics, planning, operation, control, performance, markets and regulation and environmental aspects.

Examples of some of the issues recently addressed by Working Groups and available as Technical Brochures to CIGRE members include:

TB 721 – The impact of battery energy storage systems on distribution networks [>download](#)

TB 632 – Integration of electric vehicles in electric power systems [>download](#)

TB 586 – Capacity of distribution feeders for hosting DER [>download](#)

TB 714 – Long term performance of soil and backfill systems [>download](#)

TB 672 – Power quality aspects of solar power. [How do photovoltaics change your voltage waveform?] [>download](#)

TB 643 – Guide to the operation of conventional conductor systems above 100°C [>download](#)

TB740 – Contemporary design of low cost substations in developing countries [>download](#)



Low cost of entry

CIGRE's vision is 'sustainable electricity for all'. Our not-for-profit status and unique collaborative global community makes it easy to join for very little. Get involved today the cost is low and the value high, you won't look back.



www.cigre.org/e2e