

CALL FOR PAPERS SESSION 2026

KEY DATES

| | | | | | | |
|--|--|---|--|---|---|---|
| JULY 7, 2025 DEADLINE TO SEND SYNOPSES TO NATIONAL COMMITTEES | OCTOBER 20, 2025 SYNOPSES NOTIFICATION OF ACCEPTANCE | JANUARY 12, 2026 DEADLINE TO SEND FULL PAPERS TO NATIONAL COMMITTEES | APRIL 10, 2026 DEADLINE TO SEND REVISED VERSION OF FULL PAPERS | MAY 11, 2026 FULL PAPERS NOTIFICATION OF ACCEPTANCE | JUNE 29, 2026 DEADLINE FOR POSTER PRESENTATIONS | AUGUST 7, 2026 DEADLINE FOR CONTRIBUTIONS AT GROUP DISCUSSION MEETINGS |
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PARIS
FRANCE
SESSION 2026
PALAIS
DES
CONGRÈS
23-28 AUGUST



SUBMIT A PAPER for the number one global Power System event in the world and experience an exclusive opportunity as author to take the floor and address a large audience!

TWO DIFFERENT MEETING FORMATS for an in-depth interactive congress



POSTER SESSIONS

Present the main aspects of your Paper to Session attendees during one-on-one discussions.



GROUP DISCUSSION MEETINGS

Present your point of view and experience around selected key questions before an audience of experts.

EDITORIAL

By Rannveig S.J. Loken - CIGRE Technical Council Chair



Dear Colleagues,

After the remarkable success of the 2024 CIGRE biennial Paris Session, we now turn our eyes to the preparation of the 2026 Session. CIGRE at its core is the development and dissemination of unbiased technical knowledge for power system expertise, for electricity end-to-end, and to broaden to all facets of the energy transition.

The 2026 Session will prioritise relevant topics related to:

- Development of new technologies, new standards, and new uses of existing technologies.
- Sustainability and governance aspects of modern power systems.
- Development of the knowledge and experience gained around the world.
- Requirements to develop and operate current and future power system, such as interconnections, cyber security, disaster management, self-healing networks, capacity markets, storage, and grid edge solutions.
- Energy transition and dispersed generation sources with interactive consumers and prosumers.
- Global best practices and guidelines enabling provision of sustainable electricity to areas currently without access.

All these issues represent a major change of mindset which will be reflected by new Working Groups, Symposia, Workshops and, certainly, in the selection of Preferential Subjects for the forthcoming Biennial Sessions.

CIGRE is an international organization based on volunteer work, who address timely and exciting subjects for discussion and publications. Every challenge would mean an opportunity for our growth and knowledge sharing. This is the main target of all 16 Study Committees that compose the Technical Council of CIGRE.

The Preferential Subjects selected in this call for paper, are in line with thoughts, concerns, vision of the future, new trends, as well as the establishment of CIGRE as an outstanding platform for power system expertise. On behalf of CIGRE Officers, Study Committees Chairs, allied with our main governing bodies (Administrative Council and Steering Committee), I therefore urge authors to examine the proposed Preferential Subjects for each Group Discussion Meeting and look forward to receiving many high quality, interesting and exciting papers with the objective to exceed all expectation for the 2026 CIGRE Paris Session.

Please join us, you are all and always most welcome to CIGRE!

A few words about the **PARIS SESSION: MUCH MORE THAN A TRADITIONAL CONFERENCE**

As the leading global event for power system expertise, CIGRE Session offers delegates a unique and comprehensive experience **with two must-attend events: Group Discussion Meetings and Poster Sessions**



GROUP DISCUSSION MEETINGS

Spanning the end-to-end power system, the 16 Study Committees of CIGRE will each host Group Discussion Meetings and Poster Sessions.

After reviewing and examination of the Session Papers, our Special Reporters compile questions, that are not specifically aimed at the papers' authors, but are synthesised from common issues and trends identified in across the papers. Session attendees are encouraged to share their views and experiences in response to these specific questions. This provides the opportunity for a broader response and participation in the Group Discussion Meetings.

2 or 3 slides for a 5 - 10 minutes presentation is a usual format. The meeting convener asks each contributor to take the floor and present the contribution to the audience, with a speaking time schedule set up in advance.

Authors and intended contributors should prepare their slides in advance and make them available to Study Committees for a prior check and more optimal organization of the meetings. Templates and instructions will be posted on CIGRE Session website and circulated to all a few months ahead the Session. National Committees will not be involved in the process.

Contributors will upload their prepared contributions directly through their personal account on the registration portal.



POSTER SESSIONS

Since their creation, Poster Sessions are proved very popular and appreciated by both Authors and Session Delegates. Poster Sessions are a unique opportunity for authors to present their Papers in a convivial working atmosphere during fruitful exchanges with the Session Delegates.

A large area is entirely dedicated to this event. Each author will have his/her own booth with a monitoring screen.

The meeting duration is usually two hours but can be adjusted according to the number of presentations.

Authors will upload their presentation for Poster Session on a dedicated website.

Authors or co-authors who cannot attend the Session may ask then someone to present the Paper - a colleague for instance - so that each Paper could be presented at the Poster Session meeting.

IMPORTANT!

Prepared contributions at Group Discussion Meetings and Papers presentation at Poster Sessions can be made only by registered delegates, who will attend the meetings in person - no remote participation.

INFORMATION AND RECOMMENDATIONS

SESSION PAPERS FULL PROCESS SYNOPSIS SELECTION

As a first step, the papers are selected on the basis of synopses.

Synopses are collected and checked by National Committees first.

Then a detailed and in-depth review and final selection decision is made by Study Committee Chairpersons, who are in charge of the running of the Group Discussion Meetings and Poster Sessions.

Authors are notified of the synopses selection results and invited to forward their full Paper in case of acceptance.

Synopses/full Papers must address a strictly limited list of topics, referred to as “Preferential Subjects”. Each synopsis/full Paper must focus on one preferential subject and one only.

SEE THE COMPLETE LIST of these Preferential Subjects pages 6 to 14

PEER REVIEW OF FULL PAPERS BY EXPERTS

Study Committees manage the process of full Papers review with a Peer Review Panel composed by experts.

Authors may be asked to make changes or adjustments to their papers.

Final acceptance or non-acceptance is duly notified to authors.

WHO CAN PROPOSE A SYNOPSIS?

The main author (assuming there is more than one) must be an individual member or must be from a collective member of CIGRE.

Co-authors are not required to be CIGRE members and may be from different countries.

The synopsis must be comprehensive enough - 500 words minimum is a good option - to reflect closely the various points to be developed in the full paper.

Authors must use the template for synopses available on the [2026 CIGRE Session website](#) and clearly indicate the

main author’s contact details as well as the Study Committee reference and Preferential Subject addressed.

If the synopsis is accepted, authors will have to prepare a full Paper – about 10 to 12 pages – using the template made available to their attention on the [CIGRE Session website](#).

WHERE TO SEND A SYNOPSIS?

If the main author is from a country with a CIGRE National Committee: then the synopsis must be sent to the involved National Committee. See the corresponding list on [CIGRE website](#).

KEY DATES

| AUTHORS | NATIONAL COMMITTEES |
|---|---|
| July 7, 2025: deadline to send synopses to National Committees | August 25, 2025: deadline to send synopses to Central Office |
| October 20, 2025: synopses formal notification of acceptance by Central Office | |
| January 12, 2026: deadline to send full Papers to National Committees | February 2, 2026: deadline to send full Papers to Central Office |
| April 10, 2026: deadline to send revised version of full Papers | April 20, 2026: deadline to send revised version of full Papers |
| May 11, 2026: Full Papers formal notification of acceptance by Central Office | |
| June 29, 2026: deadline for Poster presentations | Authors upload directly on ConfTool® portal. National Committees are not involved. |
| August 7, 2026: deadline for contributions at Group Discussion Meetings | Authors upload directly on CIGRE registration portal. National Committees are not involved. |

INFORMATION AND RECOMMENDATIONS

Any synopsis sent directly to the Central Office will be returned to the sender.

For Papers with authors from different countries, the proposal must be sent only to the National Committee of the main Author to avoid any confusion and duplicate.

If the main author is from a country where there is no CIGRE National Committee the synopsis must be sent in PDF format to CIGRE Central Office at:
Sessionpapers@cigre.org

If the proposed synopsis is written on behalf of a Study Committee: the synopsis should be sent directly to the Study Committee Chair, who will transfer it to the Central Office.

IMPORTANT!

Synopses that do not exclusively address the topics **will not be accepted**.

Authors must send their synopsis and full Paper in due time to their National Committee, who will check the quality, language and layout but also prevent from commercial content.

Hence authors **must ask confirmation from their National Committee** about the exact date on which they need to receive their Paper proposal.

National Committees may need to adjust this deadline to their internal constraints. See your National Committee contact details on [CIGRE website](#).

AUTHORS FROM COUNTRIES where there is no National Committee will be sending their synopsis/full Papers directly to the Central Office strictly observing the deadlines.

SEE REGULARLY OUR **2026 SESSION WEBSITE** FOR UPDATES.

Contact at sessionpapers@cigre.org

To the attention of authors

Before submitting, please note the following key points:

- The manuscript should be in English only, grammatically correct and must have been carefully proofread
- It should be original and must be previously unpublished content
- It must have been prepared using the CIGRE template
- The submission file is in PDF format
- It will be peer-reviewed
- It should not be considered for publication elsewhere at any time during the review period and before the Paris Session

Authors will be notified for acceptance or non-acceptance by email from the Central Office.

Papers Layout and Publication

CIGRE offers authors a free of charge publication. Please help us minimize our publishing costs, ensure fast processing and publication by carefully adapting the layout of Papers according to the templates provided.

We thank you for your efforts.

Copyright

It is the policy of CIGRE to own the copyright to the technical contributions it publishes on behalf of the interests of CIGRE and their authors.

Submitting a paper for publication by CIGRE implies that the author agrees with the provisions set forth in the copyright form. Please read CIGRE copyright form on the [website official documents page](#).

Manuscript Withdrawal

Authors can withdraw their manuscripts at any stage of submission, peer-reviewing, and copyediting procedures. They should then inform CIGRE Central Office at sessionpapers@cigre.org

Privacy Statement

The names and email addresses mentioned on the manuscripts and entered on the submission platform will be used exclusively for the stated purposes of the Session Papers and Registration Process and will not be transmitted to any other party. CIGRE provides updates and news to authors via email.

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A1

Power generation and electromechanical energy conversion

PS1: Rotating electrical machines and the energy transition

- › Impact of the energy transition on the role, duty and flexible operation of rotating electrical machines.
- › Eco-design and sustainability.
- › Update of international standards for electrical machine requirements to reflect future applications.

PS2: New machine developments

- › Technology developments for wind generators, variable speed pump-storage, synchronous compensators and SMR applications.
- › Improvements in design, manufacture, efficiency, insulation, cooling, bearings and materials.
- › Enhancements in the performance, reliability and control of rotating electrical machines.

PS3: Asset management and new challenges

- › Digital twin: Condition monitoring, diagnosis, prognosis of rotating electrical machines including the use of artificial intelligence, deep learning techniques, Industry 5.x requirements.
- › Improved maintenance practices to ensure power supply reliability.
- › Extending operational performance and service life of installed base.



A2

Power transformers & reactors

PS1: Major challenges to the Power transformer industry

- › Impact of ageing fleet, new operating requirements and climate changes on the design, maintenance and reliability.
- › Strategies to mitigate supply chain disruptions and skilled labor shortages.
- › Sustainability (with C3) and Life Management: Transformer economics, Life Cycle Costing, Asset management practices, Eco-design. Life Cycle Assessment, circular economy.

PS2: Power Transformer Digitalisation Journey

- › User experiences, challenges and solutions with transformer data management: data collection, processing, exchange with different stakeholders/systems, confidentiality, and security.
- › Innovative digital solutions for monitoring, diagnostics, modeling, designing, manufacturing, testing, maintenance and operation of transformers.

PS3: Failure prevention, detection and investigation

- › Detailed case histories of failures including examples such as component issues, short-circuits, moisture, dielectric breakdowns, paper degradation, material compatibility problems, etc.
- › Guidelines for conducting investigations: Root Cause Analysis (RCA) including testing and troubleshooting procedures.
- › Predictive maintenance: Best practices for monitoring, diagnostics, and prognostics.



A3

Transmission & distribution equipment

PS1: Transformation of T&D assets for evolving grid conditions

- › Innovative current limiting solutions for distribution & transmission networks.
- › Innovation in and field experience of T&D equipment to enhance system flexibility, resilience, stability and connectivity.
- › Application of T&D equipment in meshed DC-grids.

PS2: Sustainability and circular economy of T&D equipment

- › Use of recycled material and refurbished components in T&D equipment.
- › Alternatives to SF6 and field experience in applications; impact of PFAS regulations on T&D equipment design.
- › Impact of low power instrument transformers and smart sensors.

PS3: Asset Management strategies for T&D equipment

- › Integration of sensors in T&D Equipment for enhanced monitoring.
- › Efficient data management and information sharing for T&D condition assessment.
- › Utilizing digital twins, IoT, and AI for T&D equipment management.



B1

Insulated cables

PS1: Future cable systems and innovative cable applications

- › Cable systems challenges and solutions such as floating applications/deep water, meshed DC grids, overhead-line/substation interfaces.
- › New developments on materials, design and construction challenges such as super-conducting solutions, hydrogen inclusion, high temperature / electric stress, very large conductors and cost-effectiveness.
- › Intelligence into cables. Integration of sensor technologies, real-time use of data, predictive maintenance, use of robotics, dynamic management of load demands, digital twins, data use for BIM implementation.

PS2: Recent experience with AC and DC cables, both land and submarine

- › Quality, monitoring, condition assessment, diagnostic testing, after installation testing, fault location, upgrading and uprating methodologies and relevant management.
- › Lessons learned from permitting, consent, interface management cables to other equipment/device/substations and safety issues.
- › Experiences with new test requirements and new tools for cable ratings calculation.

PS3: Environmental impact and cable lifecycle

- › Development in more sustainable materials and production methods, recover, recycle, reuse of cable materials and SF6 alternatives.
- › Best practices in LCA and environmental certification.
- › Environmental impact of cable systems with regards to climate change.



B2

Overhead lines

PS1: OHL modernization and emerging technologies

- › Uprating or upgrading existing lines including conductors replacement and associated towers modifications and foundations reinforcement and other line components and technologies.
- › Accelerating the design and construction of new lines, reducing the cost and the manpower required in view of scarcity of skilled workforce and expertise.
- › Preassembled overhead line components, manless installation of overhead line components.

PS2: Health assessment and refurbishment of OHL

- › Remaining life of assets, increasing the life of assets, and refurbishment of OHL.
- › Reduced maintenance and operation costs, evaluate durability and maintenance costs.
- › Monitoring, predictive maintenance and digital twins.

PS3: Sustainability and climate change impacts (with C3)

- › Impact and strategies in response to climate change and extreme events such as extreme winds, icing, wild fires and floods.
- › Environmental and social compliance challenges for OHL, life cycle assessment analysis, and carbon footprint.



B3

Substations & electrical installations

PS1: Innovative substation concepts, designs and operation experience

- › Experience with digital design, training tools using 3D software, AI and machine learning.
- › Modular substations and prefabricated material design methods for all voltage classes.
- › UHV or HVDC operational experience with renewables for onshore and offshore substations.

PS2: Life cycle & asset management

- › Monitoring, diagnostics and testing equipment to improve energy efficiency and functionality to reduce CO2 as well as improve resiliency .
- › Substation up-rating, upgrading experience and operation concepts .
- › Asset management strategies including optimised maintenance, SF6 transitions and improve resiliency.

PS3: Grid transformation and new reliability threats

- › Physical security designs and experience.
- › Substation designs ,upgrades and concepts to mitigate severe weather
- › Experience building substations to connect large customers such as data centers, reliably and safely .



B4

DC systems & power electronics

PS1: DC equipment and systems

- › Planning, design, performance, testing and commissioning of DC equipment and systems including point to point, multiterminal and DC grids, especially offshore DC systems.
- › Refurbishment and upgrade of existing DC systems.
- › Service and operating experience of DC converter stations and systems especially VSC based DC systems and offshore DC systems.

PS2: FACTS and power electronics (PE)

- › Planning, design, performance, testing and commissioning of FACTS and other PE devices including inverter-based generation.
- › Refurbishment and upgrade of existing FACTS and other PE devices
- › Service and operating experience.

PS3: New technologies and concepts of DC and FACTS enabling energy transition

- › New technologies/concepts to address network issues such as application of synchronous grid forming converters, multi-vendor interoperability, standardisation.
- › New concepts, technologies and design of DC converters and PE devices for both transmission and distribution systems including interfacing generation and storage to the network, energy hubs/islands, etc.



B5

Protection & automation

PS1: Knowledge management in the field of protection, automation, control, metering and monitoring

- › Knowledge and skills and their preservation.
- › Education, training and life-long learning of students, young professionals, academics and manufacturer and utility personnel.
- › Platforms, methodology, tools and support for documentation and educational delivery.

PS2: Protection and control in networks with unconventional sources

- › Best practices and regulatory and performance requirements for protection and control in networks dominated by unconventional sources, including wind and solar generation, battery storage, HVDC links and other converter-based devices.
- › Lessons learned and field experience with protection and control in networks dominated by unconventional sources, including fault-ride through and transient behaviour.
- › New developments in protection and fault response control of unconventional sources.



C1

Power system development & economics

PS1: Holistic planning of an integrated energy system for the energy transition

- › Sustainable scenarios encompassing gases, heat, mobility, IT (data centres) as loads and as flexibility sources.
- › Planning methodologies and modelling targeting net zero while ensuring adequacy of resources and increased resilience .
- › Prioritisation of asset management plan and allocation of capital, including role of private investments in transmission networks .

PS2: Strategic investment decisions in the context of the energy transition

- › Optimal portfolio mix of transmission, generation, storage and non-wire solutions for ensuring adequacy, resilience and flexibility, and relevant governance framework.
- › Investment economics and risk analysis in the new energy landscape.
- › Sustainable asset management practices, especially for aging infrastructures.

PS3: Planning the cyber-physical system

- › Impact of digitalisation on power system planning: role of AI, digital twins, big data.
- › Integration of physical, cyber and electrical security with asset management techniques.
- › Case studies of successful applications of modelling and digital tools in power system planning.



C2

Power system operation & control

PS1: Advanced decision support, training and skills for control room personnel

- › New requirements for personnel skills, procedures and tools.
- › Digitalization and use of artificial intelligence for enhancing decision support.
- › Operational procedures, tools and processes for operating grids during extreme events.

PS2: Maintaining operational reliability through flexibility

- › Methods to identify and quantify system services in response to the energy transition.
- › Operational experience with flexibility services, including demand side response, topology changes, sector coupling and results from pilots.

PS3: Power system dynamics and control in operations

- › Operational experience with managing power system stability, including oscillations.
- › Monitoring and control of power system dynamics in the control room, including wide area systems.
- › Impact of adverse interactions between power electronics interfaced devices on system operations.



C3

Power system sustainability & environmental performance

PS1: Biodiversity conservation & enhancement. Towards positive contribution

- › Mitigating the impact from power system infrastructure: new renewable generation facilities, transmission and distribution. Preventive and corrective measures: nature inclusive design, commissioning, asset management and end of life.
- › Offsetting measures & ecosystems restoration. Net Zero impact and positive impact. How to measure?
- › New standards regarding biodiversity. i.e. IPBES; TCNFD.

PS2: Building a more sustainable power system for the future

- › Identification, quantification and assessment of impacts. Tools and methodologies. LCA approach, considering climate change and beyond.
- › Eco-design to reduce impacts.
- › Innovative solutions to enhance circularity.

PS3: Disclosing sustainability

- › Reporting standards & regulation. Indicators.
- › Stakeholder reporting requirements. Impact of disclosure on social perception and acceptance.
- › Value chain information, strategies and methodologies to obtain complete and reliable information.



C4

Power system technical performance

PS1: Power system stability aspects of decarbonisation of power systems and the road to net-zero.

- › Emerging tools and methods for plant and system-wide stability analysis, model validation, advanced data analytics, screening and performance monitoring.
- › Power system stability impact of new technologies including storage, large scale inverter-based generators, inverter-based loads, network elements and control methods (e.g. grid forming). Development of appropriate specifications.
- › Dynamic phenomena impacting power systems stability - e.g. wide-area, local interactions and forced oscillations.
- › Demystifying system strength: definition, metrics, impact on power systems, experiences, challenges and solutions.

PS2: Power quality (PQ) and electromagnetic compatibility/interference (EMC/EMI) aspects of decarbonisation of power systems and the road to net-zero

- › Modeling and simulation for assessment of PQ and EMC phenomena and mitigation strategies in meshed transmission systems.
- › Experiences with PQ issues in IBR dominated systems and use of advanced data analytics to investigate trends. Approaches for allocation of PQ limits and compliance processes.
- › Experiences with EMI for large inverter-based generators and loads and interference between the power system (AC or DC) and pipelines and telecom systems.

PS3: Insulation co-ordination and lightning research: paving the way to net-zero in decarbonised power systems

- › Future of insulation co-ordination for AC, DC and hybrid systems.
- › Improvement of lightning detection systems with a focus to enhance power system reliability.
- › Lightning protection designs and accepted risk of damage to IBRs, including the impact of thunderstorms and extreme weather events.



C5

Electricity markets & regulation

PS1: Market designs and non-market approaches to support the energy transition

- › Ensuring resource adequacy and supporting investment decisions.
- › Cost allocation for the energy transition: who owns and who pays.
- › Tradeoffs between markets and regulatory approaches.

PS2: Developing reliable price signals and regulations across the value chain

- › Tools and approaches for markets to withstand adverse events and shocks.
- › Consistent end-to-end price signals to integrate emerging technologies, distributed energy resources and energy communities.

PS3: Applying practical experiences to emerging issues

- › Integrating various electricity markets with emission reduction approaches and long-term contracts.
- › Market designs and products to deal with increasing short-term uncertainty.
- › Data analytics in electricity markets, market surveillance and transparency.



C6

Active distribution systems & distributed energy resources

PS1: Enabling flexibility in distribution networks

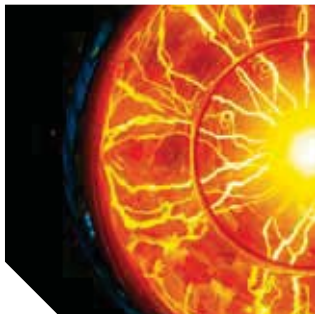
- › Impact of and grid services provision by energy storage systems and energy conversion units e.g. hydrogen, in distribution systems.
- › The role of energy communities, aggregators and virtual power plants to enhance the flexibility of distribution networks.
- › Risk appetite in times of network congestion and the balance between flexibility procurement and stretching operational limits.

PS2: Planning and operations for 2030 and beyond in active distribution systems

- › The impact of transformational changes to planning objectives and criteria, with accelerated electrification, new electric loads and customer behaviours.
- › Electric vehicle integration and further evolving technology impacts on the distribution system.
- › The role of the DSO to manage and plan the system operations and to improve network resilience of distribution networks, considering customer affordability .

PS3: Rural and industrial electrification standards, practices and technology options

- › Microgrid and multi-microgrid installations, including industry networks.
- › Off-grid and island DER applications including appropriate resilience measures.
- › Applications highlighting the connection of the last mile of rural electrification projects.



D1

Materials & emerging test techniques

PS1: Testing, monitoring and diagnostics

- › Testing and condition monitoring for reliability in conventional high voltage systems and power electronics applications.
- › Understanding of space charge and PD behaviour under AC, DC, rectifier, and impulse stress.
- › Advances in knowledge rules and tools for improved diagnostics including ML, AI, explainable AI (XAI) etc. considering multiple data sources or contextual information.

PS2: Materials for electrotechnical purposes and modelling

- › Ageing of materials under electrical, mechanical or thermal stresses and associated ageing markers.
- › Modelling materials and field simulations under AC, DC and composite voltages.
- › Application of novel materials and processes; eco-friendly and recycled materials, materials to enable energy storage or cryogenic systems, additive manufacturing etc.

PS3: Measurements and modelling of interfaces

- › Understanding interfacial behaviour through experiments at any scale between the nano- and macro-scale.
- › Modelling electric field, magnetic field, or charge dynamics at interfaces.
- › Assessing material compatibility of used and unaged materials.



D2

Information systems, telecommunications & cybersecurity

PS1: Extracting value from information and data through decision support tools and techniques in managing the increasing complexity of power grids

- › Predictive analytics techniques to forecast generation from renewable sources/distributed energy resources.
- › Case studies and guidelines for AI application in power system operation and planning.
- › Development of AI and machine learning models for real-time and predictive grid optimisation.

PS2: Comprehensive approaches to managing cybersecurity in energy applications

- › Cybersecurity compliance, obligations, regulations and legislations in the energy sector, including cybersecurity organisational processes, technical measures, standards, and certifications.
- › Integrated solutions for physical and cyber threat detection platforms to support asset and incident management, including artificial intelligence techniques.
- › New strategies and approaches for protecting energy infrastructures and sensitive data against cyber threats.

PS3: Next-generation telecommunications technologies to support grid decarbonisation and digitalisation

- › Optimised migration approach from legacy to packet networks to support mission-critical power systems services.
- › Next-generation technologies in enhancing coverage and resilience of wireless communication networks for power systems.
- › Telecommunications technologies and techniques for a highly resilient and mission-critical power system.



ACRONYMS

| | |
|--------------|---------------------------------|
| 3D | Three-dimensional |
| AC | Alternating Current |
| AI | Artificial Intelligence |
| BIM | Building Information Modelling |
| CO2 | Carbon Dioxide |
| DC | Direct Current |
| DER | Distributed Energy Resources |
| DSO | Distribution System Operator |
| EMC | Electromagnetic Compatibility |
| EMI | Electromagnetic Interference |
| FACTS | Flexible AC Transmission System |

| | |
|--------------|--|
| HVDC | High Voltage Direct Current |
| IBR | Inverter Based Resources |
| IoT | Internet of Things |
| IPBES | The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services |
| IT | Information Technology |
| LCA | Life Cycle assessment Analysis |
| OHL | Overhead Line |
| PD | Partial Discharge |
| PE | Power Electronics |

| | |
|----------------|--|
| PFAS | Perfluoroalkylated Substances |
| PQ | Power Quality |
| RCA | Root Cause Analysis |
| SF6 | Sulphur Hexafluoride |
| SMR | Small Modular Reactor |
| T&D | Transmission and Distribution |
| TCNFD | Climate and Nature-Related Financial Disclosure Report |
| UHV | Ultrahigh Voltage |
| VSC | Voltage Source Converter |

