

# How to utilise e-CIGRE to support my research

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CIGRE UK NGN member

8th December 2023

G42, Mechanical Building (Y3)



**cigre**

For power system expertise

# Contents

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# About eCIGRE

- Powering your expertise
- CIGRE is a global, not for profit power system community.
- eCIGRE is home our world leading resource of technical publications.
- Our Working Groups and events produce publications and papers that are renowned the world over, as a neutral and authoritative source of electric power system expertise.



# About eCIGRE

- We are proud to offer you enriched access to these extensive resources with a new version of this website. This unique online resource is home to our perpetually growing knowledge base of over 12000 papers and publications, with more than a million pages of expertise!
- eCIGRE brings the diverse global resources for the end to end electric power system and the energy transition you need. eCIGRE, powering your expertise!

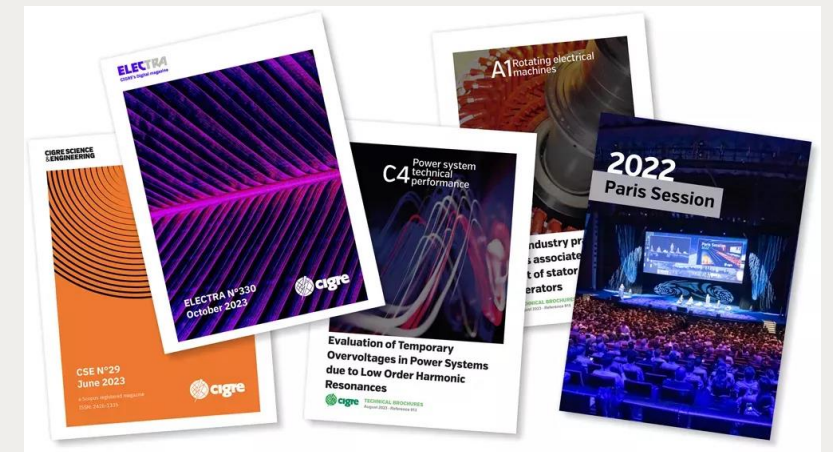




# About eCIGRE

## Searching our publications

- Please enjoy exploring the wide variety of resources available on this site.
- The best way to do so is by using the **search engine** and its suite of filters to refine your search.



# Publications

## Technical Brochures

- 250+ Working Groups
- CIGRE's 16 Study Committees
- This spans the entire spectrum of the power system.



# Publications

## Green Books

- Recognised by the international engineering community
- Self-contained handbooks covering the entire knowledge of a subject area
- Each Greenbook embodies a vast amount of real-world expertise distilled from our global community.



# Publications

## Paris Session Materials

- The Paris Session is the foremost global thought leadership event for the power system,
- Held every even numbered year.
- In-depth interactive congress, attracting members of the international CIGRE community of professionals and world experts.





# Publications

## Symposia

- world leading power industry conferences
- Held twice in odd numbered years.
- The multi-day events attract up to 1400 delegates including senior CIGRE international experts and community members.



## Sign into eCIGRE

- To access technical publications on e-cigre.org, and our digital magazine at electra.cigre.org, go to the Get Started page
- Then follow the process:
  1. Enter your email address
  2. Fill in the short form with your details and select “Yes” for “Are you a CIGRE member ?”
  3. Enter your new membership number
  4. Then follow the prompts.

### Sign in / Register ×

Enter your email and password to sign in or register a new account.

Email address

**Sign in / Register**

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Account Membership Confirmation

## Create an account

Creating an account on eCIGRE is free and allows access to free downloads or purchase of CIGRE publications. You can also setup membership which allows free access to most all content.

Fields marked with \* are required

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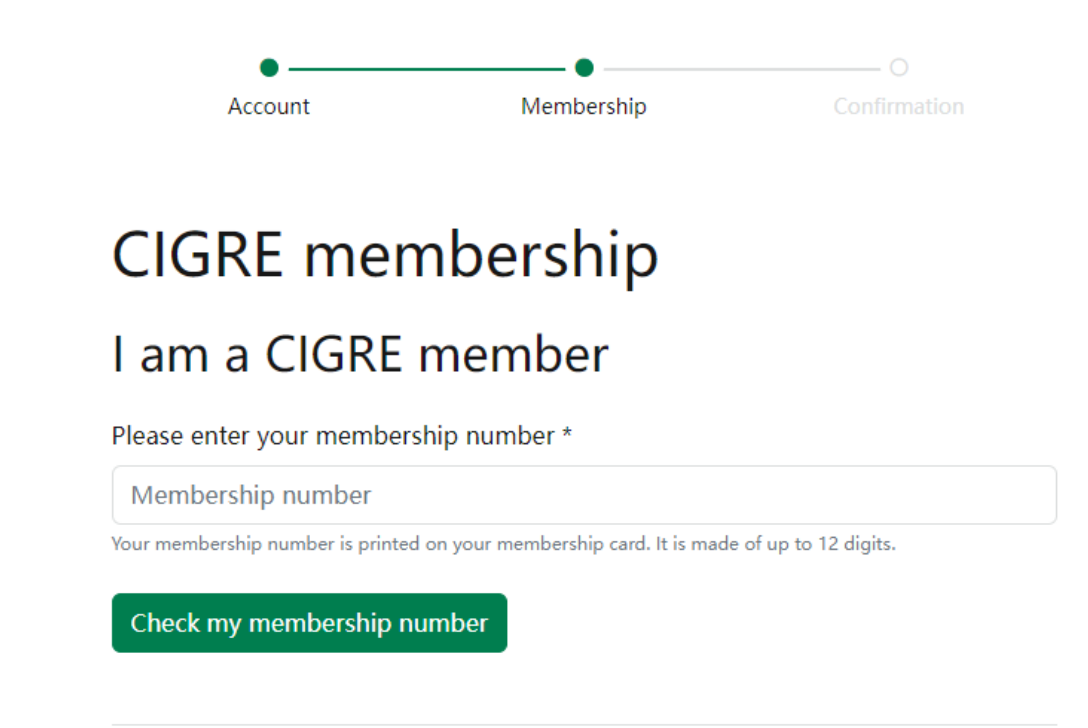
Password \*

Password needs a minimum of 8 characters.

Password confirmation \*

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  4. Then follow the prompts.



Account      Membership      Confirmation

## CIGRE membership

I am a CIGRE member

Please enter your membership number \*

Your membership number is printed on your membership card. It is made of up to 12 digits.

[Check my membership number](#)



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- Over 14000 globally informed publications, including over 900+ Technical brochures
- ELECTRA CIGRE's digital magazine
- CIGRE TV videos
- Collaborate with experts by getting involved in CIGRE's Working Groups
- Benefit from a price reduction for the 2024 Paris Session

Join CIGRE

If you choose to create an account without being a CIGRE member, some publications will be chargeable.

Continue without CIGRE membership

## Join CIGRE

- Joining CIGRE means free access to eCIGRE and its publications as well as a range of other excellent benefits.
- Benefits include our bi-monthly digital magazine ELECTRA and opportunities to collaborate with colleagues from across the world. This collaboration is both immediate at our events such as the world leading 'Paris Session', or over the longer run with your local organisation and our hundreds of global Working Groups.

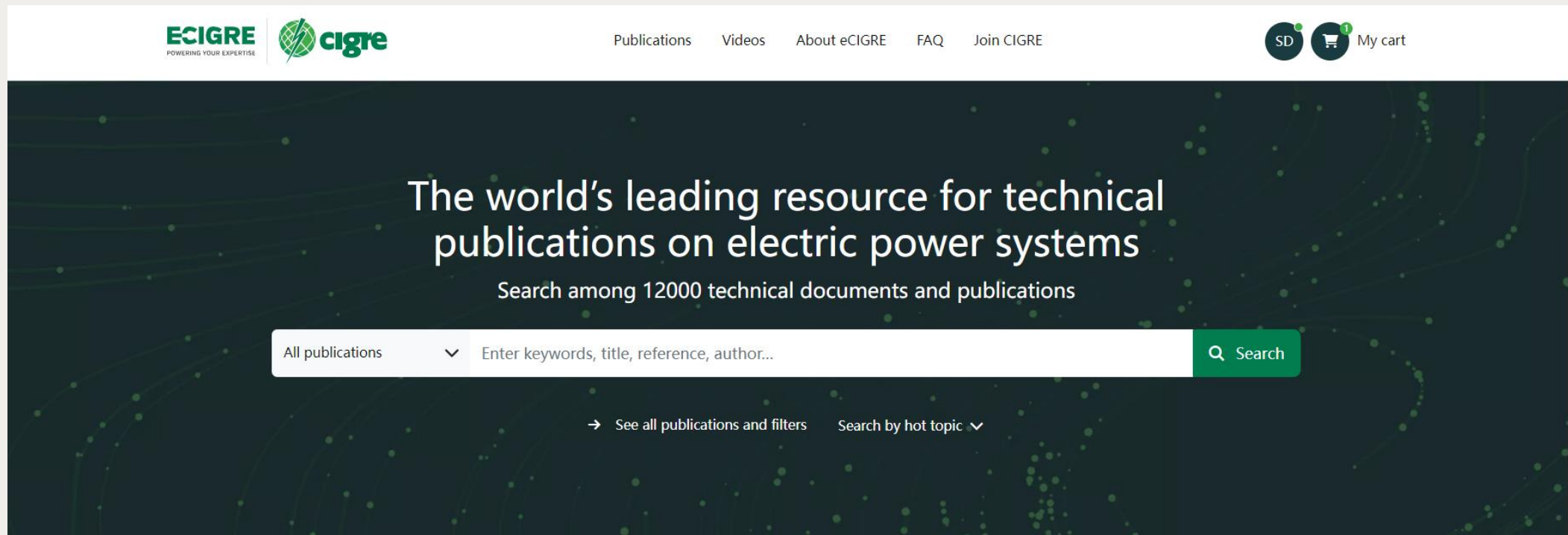


**CIGRE members can  
download eCIGRE  
content for free!**



## Find technical information

- <https://www.e-cigre.org/>



The screenshot shows the homepage of the eCIGRE website. At the top left, there are two logos: "ECIGRE POWERING YOUR EXPERTISE" and "cigre". To the right of these logos is a navigation menu with links for "Publications", "Videos", "About eCIGRE", "FAQ", and "Join CIGRE". Further right are icons for "SD" and "My cart". The main content area has a dark background with a grid of green dots and lines. The text reads: "The world's leading resource for technical publications on electric power systems" and "Search among 12000 technical documents and publications". Below this is a search bar with a dropdown menu set to "All publications" and a search input field containing the placeholder text "Enter keywords, title, reference, author...". A green "Search" button is to the right of the input field. Below the search bar, there are two links: "→ See all publications and filters" and "Search by hot topic ▾".

# Find technical information

- Search results

The screenshot shows a search interface with a dark header. A search bar contains 'All publications' and 'hvdc', with a 'Search' button. Below the header, there are navigation links for 'Home', 'Publications', and 'Search results'. The main heading is 'Search results'. On the left, a 'Filters' section lists various publication types with counts: Session Materials (590), Electra (126), Technical Brochures (91), ISH Collection (87), Colloquia (40), Symposia (28), CIGRE Science & Engineering (21), and Green Books (7). The main content area shows '996 results for your search' and a 'Sort by Relevance' dropdown. Two results are displayed: an 'ISH COLLECTION' item titled 'Transient voltage stresses in MMC-HVDC links and associated impacts on air clearance calculation' (published in 2017) and a 'GREEN BOOKS' item titled 'Accessories for HV and EHV Extruded Cables - Volume 2: Land and Submarine AC/DC Applications' (published in 2023).



## Find technical information

- Brochure details

[Home](#) | [Publications](#) | Connection of wind farms to weak AC networks



TECHNICAL BROCHURES

## Connection of wind farms to weak AC networks

Published in 2016

- This publication is free only for CIGRE members
- Price for non member: 300 €

[Download \(PDF • 7 MB\)](#)

# How do I find technical information

- Cart and checkout

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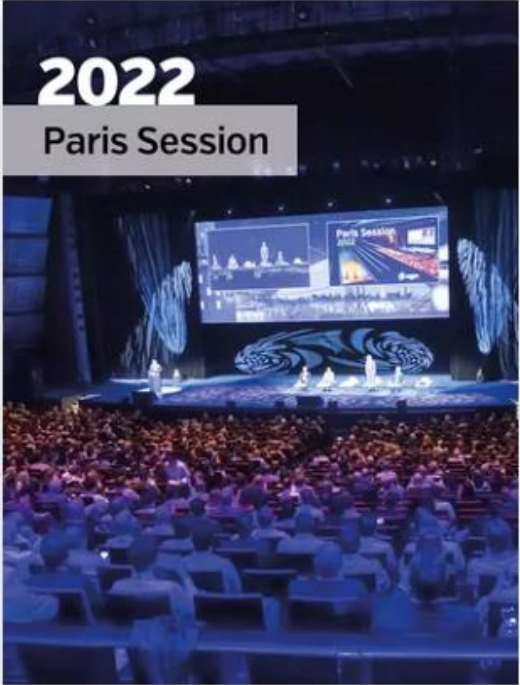
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# How do I find technical information

- Session materials

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2022  
Paris Session

SESSION MATERIALS

## Session 2022 - SC B4 Package

Published in 2022

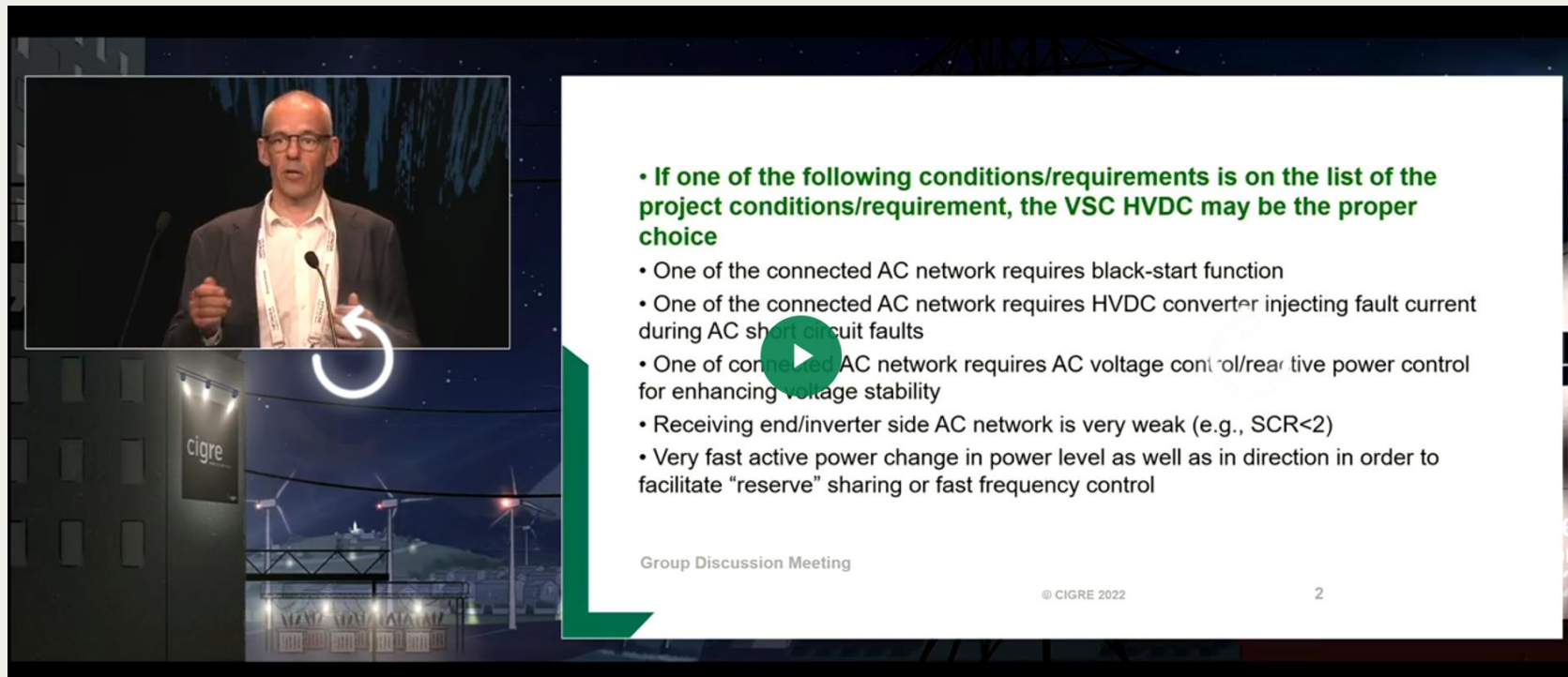
Video content

- This publication is free only for CIGRE members
- Price for non member: 150 €

[Download \(ZIP\)](#) [Watch the video](#)

## How do I find technical information

- Session materials



**• If one of the following conditions/requirements is on the list of the project conditions/requirement, the VSC HVDC may be the proper choice**

- One of the connected AC network requires black-start function
- One of the connected AC network requires HVDC converter injecting fault current during AC short circuit faults
- One of connected AC network requires AC voltage control/reactive power control for enhancing voltage stability
- Receiving end/inverter side AC network is very weak (e.g.,  $SCR < 2$ )
- Very fast active power change in power level as well as in direction in order to facilitate “reserve” sharing or fast frequency control

Group Discussion Meeting

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