



# Fellesmøte for Den norske komite for CIGRE

Onsdag 09.04.2025 - kl 09.30 – 15.00

Rapport fra SC B4

Kamran Sharifabadi (presentert av Sigmund Bødal)



## *SC B4 technological field of activity*

- Direct current equipment and systems including converter technology and semiconductor devices
- Power electronics for AC systems and power quality improvement, advanced power electronics and applications



## *Tekniske brosjyrer publisert de seneste år*

2023	WG	Tittel	TB	Norske medlemmer
	JWG C4/B4.52	Guidelines for subsynchronous oscillations in power electronics dominated power systems	909	
2024	WG	Tittel	TB	Norske medlemmer
	B4.84	Feasibility study and application of electric energy storage systems embedded in HVDC and STATCOM systems	935	Francesco Marra
	B4.81	Interaction between nearby VSC HVDC converters, FACTS devices, HV power electronic devices and conventional AC equipment	934	Kamran Sharifabadi
	B4.79	Hybrid LCC/VSC HVDC systems	950	

## *Tekniske brosjyrer publisert de seneste år*

2025	WG	Tittel	TB	Norske medlemmer
	AG B4.04	Protocol for reporting the operational performance of HVDC systems	956	
	JWG B4.82/IEEE	Guidelines for use of real-code in EMT models for HVDC, FACTS and inverter based generators in power system analysis	958	
	JWG C2/B4.43	The impact of offshore wind power hybrid AC/DC connections on system operations and system design <b>(60 day review)</b>		Sverre Gjerde



## *Norske medlemmer i arbeidsgrupper*

WG	Tittel	Medlem	Firma
B4.90	Operation and maintenance of HVDC and FACTS facilities	Helene Rørvik	Statnett
B4.102	Technical requirements and scenario considerations on grid-forming capabilities of VSC-HVDC systems	Atle Rygg/ Christos Dikaiakos	Equinor/ Statnett
B4.101	Industrial implementation and application of grid forming energy storage systems (GFM ESS)	Francesco Marra	Equinor

# *Nyeste arbeidsgrupper*



WG	Tittel
B4.103	AC Network Equivalents for HVDC and FACTS Project Studies
B4.104	HVDC Digital Twin – concepts and roadmap

# *Paris Session 2024 paper*



2024 Paris Session

**10961**

**B4 - DC SYSTEMS & POWER ELECTRONICS  
PS1 - DC EQUIPMENT AND SYSTEMS**

**Measures to secure the lifetime of an LCC based HVDC link  
with a potentially aged cable**

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# *Symposium Trondheim 2025*

## CIGRE Symposium 2025 in Trondheim

**CHANGES NEEDED IN THE POWER SYSTEM**

– for the Energy Transition.

Date: May 12–14, 2025

Location: **Trondheim, Norway**

**REGISTRATION IS OPEN**

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Download  
preliminar  
program

**Updated March 15**



# *Symposium Montréal 2025*



## **CIGRE 2025 International Symposium**

Palais des Congrès de Montréal, Québec, Canada •  
From September 29, 2025 to October 3, 2025



**A1** Power generation and electromechanical energy conversion

**A2** Power Transformers & Reactors

**A3** Transmission & Distribution Equipment

**B2** Overhead Lines

**B3** Substations & Electrical Installations

**B4** DC Systems & Power Electronics

**C1** Power System Development & Economics

**C3** Power system sustainability and environmental performance

**C5** Electricity Markets & Regulation

**C6** Active Distribution Systems & Distributed Energy Resources

## *Andre forhold*

- Økning i antall papers til konferanser
- Mindre interesse blant frivillige til å bidra med gjennomsyn, vurdering og kommentering
- Mindre tid per paper ➡ lavere kvalitet