



# Fellesmøte for Den norske komite for CIGRE

Onsdag 09.04.2025 - kl 09.30 – 15.00

Rapport fra SC B2

Peder Hagen



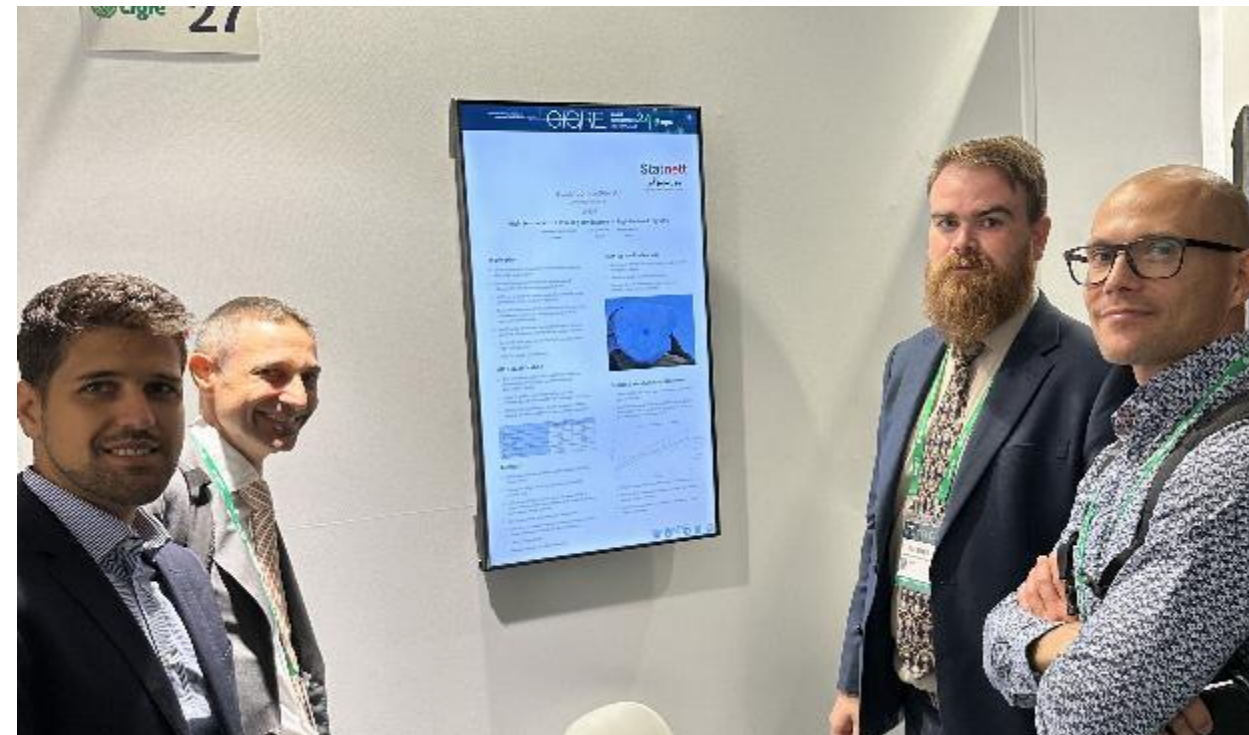
# Rapport om status for SC B2

- **Technical Council Award** ble gitt til Kjell Åge Halsen
- Kjell Åge Halsen er leder i CAG i B2



# Rapport om status for SC B2

- Norge har god representasjon i arbeidsgrupper
- 2 Papers ble presentert CIGRE i Paris
  - Predicting Capacity Gains from Dynamic Line Rating prior to Sensor Deployment. Tobias Brekke, Statnett
  - High temperature low sag conductors in high ice load regions, Bjarni Thorsteinsson, Statnett





## *Videre planer*



- Heier på at Kjell fortsetter som CAG i B2
- Aktiv deltagelse i arbeidsgrupper
- Rekruttere nye (helst yngre og gjerne kvinner) til å bli med i arbeidsgrupper

## *Arbeidets nytteverdi for CIGRE*

- Med naturgitt utfordring har og kan Norge bidra med mye nytteverdi
  - Prosjektering med mye terreng og store klimalaster
  - Datamodell for beregning av klimalaster (KVT)
  - Demping av de lengste spenn i verden
  - Bruk av sensorer
  - Bygging uten kjøreadkomst
  - IM i planlegging, bygging og drift av anlegg

## *Hva er spesielt viktig for Norge?*

- For et lite land med ett begrenset antall som jobber med kraftledninger er kontakter utenfor landet viktig kilde til informasjon og utvikling
- Håndtering av klimaendringer
- Bærekraft inn i tekniske løsninger?

## *Relevante arbeidsgrupper*

- B2.59 Forecasting dynamic line ratings. G. Biedenbach. **Medlem Diarmid Loudon EFLA.**
- B2.60 Affordable overhead transmission lines for Sub-Saharan countries. **V. Naidoo fra EFLA**
- B2.66 Safe handling and installation guide for high temperature low sag (HTLS) conductors. V.T. Chari. **Medlem fra Statnett. Kjell Halsan**
- B2.68 Sustainability of OHL, conductors and fittings – Conductor condition assessment and life extension. C. Roze. **Medlem fra Statnett. Kjell Halsan**
- B2.70: “Aircraft warning markers and bird flight diverters for overhead lines – experience and recommendations. N. Sahlani. **Medlem fra Statnett. Kjell Halsan og Boris Adum**
- B2.71 Recommendations for Interphase spacer for Overhead Lines. J.P. Paradis. **Medlem fra Statnett. Kjell Halsan og Boris Adum**
- B2.78 Use of High Temperature conductors in new OH line design. R. Stephen. **Medlem Diarmid Loudon EFLA.**
- B2.79 Enhancing OHL Rating Prediction by Improving Weather Parameters Measurements. G. Watt. **Medlem Diarmid Loudon EFLA**
- B2.84 Assessment of the methodologies to analyse wind induced overhead line conductor’s motion: applications and limitations. G. Diana. **Medlem fra Statnett. Boris Adum**
- B2.85 Emergency Restoration Systems for Overhead Lines - Guide for Design, Planning and Installation. M. Negarpour. **Medlem BKK Eivind Huse.**
- B2/C1.86 Approach for Asset Management of Overhead Transmission Lines. V. Lovrencic. **Medlem fra Statnett,**
- B2.91 Long (>1000 m) overhead line spans: Design practices and field experience covering conductors, dampers, conductor fittings, AWM, and monitoring practices. B. Adum. **Medlem fra Statnett. Kjell Halsan og Boris Adum**
- B2.94 Inspection after installation, maintenance and end of life of high temperature conductors and fittings. B. Gary. **Medlem fra Statnett. Kjell Halsan og Boris Adum**
- B2.95 Impact of extreme weather events under climate change on high voltage overhead line design standards. A Bhangor. **Medlem fra Statnett. Boris Adum**

# NEW ACTIVE WG

WG	Convener	Title	Start-date TOR	TB scheduled TOR	Actual TB date	Progress since last meeting + coming activities
JWG B2-B1.90	Antonio Useros - Spain	Transition facilities between overhead and overground lines	Q1-2024	Q4-2026		TOR approved in February 2024
B2.91	Boris Adum - Norway	Long overhead line spans. Design practices and field experience covering conductors, dampers, conductor fittings, AWM and monitoring practises	Q2-2024	Q4-2027		TOR approved in November 2023. Premeeting in Sendai 2023
B2.92	Hugo Valente - Portugal	Update on overhead transmission line construction methodologies	Q2-2024	Q1-2028		TOR approved in March 2024.
B2.93	Janos Toth - Canada	Artificial Intellengence (AI) augmented image base transmission line inspection and condition monitoring	Q3-2023	Q4-2025		TOR approved in 2024
B2.94	Baptiste Gary - France	Inspection after installation, maintenance and end of life of high temperature conductors and fittings	Q2-2024	Q4-2026		TOR approved in April 2024
B2.95	Asif Bhangor - Australia	Impact of extreame weather events under climate change on high overhead line design standards	Q4-2024	Q3-2027		TOR approved in April 2024. Recruiting members now



## TOR for WG in process

WG	Convener	Title	Start-date TOR	TB scheduled TOR	Actual TB date	Progress since last meeting + coming activities
B2.96	Usama Ahmed	Composite insulated crossarms	Q1 2025	Q4 2028		TOR has been approved in March 2025
	xx	Monitoring, forewarning and melting of ice on overhead power lines. Proposed by Fan Songhai				Old but interesting proposal. TOR produced in 2019
	Gu- China	Fault diagnosis by distributed monitoring technology for high voltage overhead lines				Preliminary TOR to be discussed in TAG04 in Trondheim
	xx	Impact of pollution level of insulators strings for HVDC				Proposal dicussed at CAG meeting. Papailiou see no need for this WG
RE – Session 2024	Stefan Stevens	Improvement of OHL conductor calculations for thermal evaluation taking into account different environmental conditions				To be discussed in Trondheim 2025

# *Andre forhold*