

## **CIGRE Study Committee A1**

## PROPOSAL FOR THE CREATION OF A NEW WORKING GROUP

WG <sup>1</sup> N° A1.70	Name of Convenor: Monique Krieg-Wezelenburg (NL)			
WO N A1.70	E-mail address: r	m.g.krieg@eic-highenergy.com		
Strategic Directions #2: 2		Sustainable Development Goal #3: 7, 9		
The WG applies to distril	bution networks:	□ Yes / ⊠ No		
Potential Benefit of WG work # <sup>4</sup> : 5				
Title of the Group: Dielectric Dissipation Factor Measurements on Stator Windings				
Scope, deliverables and	proposed time sc	hedule of the WG:		
Background:				
assess the condition of sta topic is scarce. The purpos additional value in the p investigation would complete	tor windings. Updat se of the working g rocess of assessi ement the work tha	re used, at least in certain parts of the world, to ted publicly available information concerning this group is to investigate whether this method addsing the condition of stator windings. Such an at is already performed and published by means urements on new stator bars and coils.		
Scope:				
<ul> <li>where are these m</li> <li>what practises are</li> <li>What is the repetiti</li> <li>what results are fo</li> <li>which criteria are t</li> <li>Is trending in time to</li> </ul>	neasurements used used (at what volta on rate of measure ound in time? used?	ages/measurement equipment?)		
	construction, stress	ulation system, rated voltage, rated power, rated grading, ICP, manufacturer and manufacturer collected where available.		
	but also the spread	and a report prepared not only in relation to the in DDF measurement results of stator windings, d criteria reviewed.		
Deliverables:				
<ul> <li>☑ Technical Brochure and</li> <li>☑ Electra Report</li> <li>☐ Future Connections</li> <li>☐ CSE</li> <li>☑ Tutorial</li> <li>☑ Webinar</li> </ul>	d Executive Summa	ary in Electra		



Time Schedule: start: June 2020 Final Report: August 2023

- TOR submitted for approval June 2020
- Forming of team July 2020
- WG meeting and presentation of status in Paris August 2020
- Draft questionnaire Dec 2020
- Comments on draft questionnaire by members and experts March 2021
- Distribution final questionnaire April 2021
- Collection of information July 2021
- WG meeting and presentation of status in Japan Session September 2021
- Analysis of collected information December 2021
- Draft report 1 June 2022
- WG meeting and presentation of status in Paris Session August 2022
- Comments by members and experts October 2022
- Final report July 2023
- Tutorial August 2023
- Webinar December 2023

## **Approval by Technical Council Chairman:**

**Date**: May 25<sup>th</sup>, 2020

Notes: <sup>1</sup> Working Group (WG) or Joint WG (JWG), <sup>2</sup> See attached Table 1, <sup>3</sup> See attached Table 2 and CIGRE reference Paper: Sustainability – at the heart of CIGRE's work. <sup>4</sup> See attached Table 3

Marcio Zeeftruser



Table 1: Strategic directions of the Technical Council

1	The electrical power system of the future reinforcing the End-to-End nature of CIGRE: respond to speed of changes in the industry by preparing and disseminating state-of-the-art technological advances	
2	Making the best use of the existing systems	
3	Focus on the environment and sustainability (in case the WG shows a direct contribution to at least one SDG)	
4	Preparation of material readable for non-technical audience	

Table 2: Environmental requirements and sustainable development goals

Table :	2: Environmental requirements and sustainable development goals
	CIGRE selected the 7 SDGs that are the most relevant to CIGRE. In case the WG
	work refers to other SDGs or do not address any specific SDG, it will be quoted 0.
0	Other SDGs or not applied
	SDG 7: Affordable and clean energy
7	Increase share of renewable energy; e.g. expand infrastructure for supplying sustainable energy services; ensure universal access to affordable, reliable, and modern energy services; energy efficiency; facilitate access to clean energy research and technology
	SDG 9: Industry, innovation and infrastructure
9	Facilitate sustainable infrastructure development; facilitate technological and technical support
	SDG 11: Sustainable cities and communities
11	Increase attention on sustainable and resilient buildings utilizing local (raw) materials, power for electric vehicles, strengthening long-line transmission and distribution systems to import necessary power to cities, developing micro-grids to reinforce the sustainable nature of cities; protect and safeguard the world's cultural and natural heritage; reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and waste management
	SDG 12: Responsible consumption and production
12	E.g. Promote public procurement practices that are sustainable; address reducing use of SF6 and promote alternatives, encourage companies to adopt sustainable practices and to integrate sustainability information into their reporting cycle, address inefficient fossil-fuel subsidies that encourage wasteful consumption
	SDG 13: Climate action
13	E.g. Increase share of renewable or other CO <sub>2</sub> -free energy; energy efficiency; expand infrastructure for supplying sustainable energy; strengthen resilience and adaptive capacity to climate-related hazards and natural disasters; integrate climate change measures into national policies, strategies and planning; improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
14	SDG 14: Life below water
14	E.g. Effects of offshore windfarms; effects of submarine cables on sea-life
15	SDG 15: Life on land E.g. Attention for vegetation management; bird collisions; integration of substations and lines into the landscape



## **Table 3: Potential benefit of work**

1	Commercial, business, social and economic benefits for industry or the community can be identified as a direct result of this work
2	Existing or future high interest in the work from a wide range of stakeholders
3	Work is likely to contribute to new or revised industry standards or with other long term interest for the Electric Power Industry
4	State-of-the-art or innovative solutions or new technical directions
5	Guide or survey related to existing techniques; or an update on past work or previous Technical Brochures
6	Work likely to contribute to improved safety.