



# **IEC TC14 Power Transformers**

**Chairman: Christoph Ploetner, DE**

**Secretary: Mick Maghar, UK**

**Status Report to  
IEEE Transformers Committee  
Spring e-meeting 2021**



# General Information TC 14

- **Membership (countries)** **48**
  - **P - Members** **36**
  - **O - Members** **12**
- **Registered experts** **261**
- **Currently active MT, PT, WG, AHG** **10**
- **Documents in charge of (TR, TS, IS)** **40**
  - **under maintenance / in development** **6 / 2**
  - **IEC/IEEE common documents** **6**
- **Last plenary meeting** **Sep 2019 in Paris**
- **Next plenary meetings** **Nov 2021 in India or virtual**  
**Nov 2022 in San Francisco**



# Recent Publications (new docs)

- **IEC 60076-22-x Transformer and Reactor Fittings**
  - 5 Pumps** Published in January 2021
  - 6 Fans** Published in January 2021
  - Convener: Gianmarco Ghioldi, IT



# Revisions in progress I

- **IEC 60076-1 General**
  - Convener Paul Jarman, UK
  - 11<sup>th</sup> meeting to hold in May 2021
  - First CD expected beginning 2022
- **IEC 60076-2 Temperature rise**
  - Convener Dejan Susa, NO
  - First CD expected later in 2021  
(content to be aligned with IEC 60076-1)
- **IEC 60076-4 Guide to LI and SI testing**
  - Convener Thang Hochanh, CA
  - CDV publication expected in Q3/2021



# Revisions in progress II

- **IEC 60076-5 Ability to withstand short circuit**
  - Convener Jean-Christophe Riboud, FR
  - Major revision – 10 meetings held so far
  - First CD expected end 2021
- **IEC 60076-6 Reactors**
  - Convener Rob Verhoeven, NL
  - First CD expected later in 2021
- **IEC 60076-19 Uncertainties in Loss Measurement**
  - Convener Anders Bergman, SE
  - CDV in preparation, expected in Q3/2021



# **New documents in development**

- **IEC 60076-25 Neutral Grounding Resistors**
  - Convener Hakam El Assad, FR
  - Preparation of 2<sup>nd</sup> CD or CDV ongoing – expected later in 2021
- **IEC 60076-22-8 Transformer and Reactor Fittings -  
Devices suitable for use in  
communication networks**
  - Convener: Gianmarco Ghioldi, IT
  - Document completed – publication scheduled for April 2021



# Joint Ad Hoc Group

- **Joint Ad Hoc Group 7 – SC36 / TC14**

**To produce the framework of standard or technical report for dimensional standardization of transformer bushings**

- Convener Flavio Mauri, IT
- Final report published in January 2021 as “Document for Comment 36A/204e/DC” – Comments received in March
- Next step: Development of a Technical Report (TR)  
“Transformer Bushings standardization “
- Responsible: IEC SC 36A – Insulated bushings



# Continuing Ad Hoc Group

- **Ad Hoc Group 35**

## **Functional classification of power transformers**

- Convener: Angelo Baggini, IT
  - update Scope of TC 14 as well as “Power transformer” definition to be technology neutral
  - clarification of boundaries between TC 14 and TC 22F (Power electronics for electrical transmission and distribution systems)
  - consideration of a horizontal standard covering Ratings and Performance Parameters applicable for all technologies (definition of the network interface)





# IEC / IEEE Dual Logo Documents

## Available dual logo documents: 6

- IEC/IEEE 60076-16 Wind turbine transformers
- IEC 60076-21 – IEEE Std. C57.15 Step voltage regulators
- IEC/IEEE 60076-57-1202 Phase shifting transformers
- IEC 62032 – IEEE C57.135 Guide for Phase shifting transformers
- IEC/IEEE 60076-57-129 HVDC Transformers
- IEC/IEEE 60214-2 Tap changer application guide

## Dual logo documents in development: 1

- IEC/IEEE 63253-5713-8 Service station voltage transformers (SSVT)

## Dual logo document in consideration: 1

- IEC/IEEE 60214-1 Tap changer performance requirements
  - Proceed after revision of C57.131 is completed