



IEC TC14 Power Transformers

Chairman: Christoph Ploetner, DE

Secretary: Stephanie Lavy, UK

Status Report to

IEEE Transformers Committee

2022 October



General Information TC 14

- **Membership (countries)** **48**
 - **P - Members** **35**
 - **O - Members** **13**
- **Registered experts** **337**
- **Currently active MT, PT, WG, AG, AHG** **11 + 2 joint groups**

- **Documents in charge of (TR, TS, IS)** **40**
 - **under maintenance / in development** **9 / 1**
 - **IEC/IEEE common documents** **6**



TC 14 Plenary Meeting

- **Plenary meeting = Strategy meeting**
 - **review project's progress, update work program**
 - **initiate new work Item proposals**
 - **yearly meeting – none in 2020 and 2021 due to COVID**
- **Last meeting 2022 Bled (SLO) in June 2022**
 - **hybrid meeting - 86 participants (~30 in-person)**
 - **6 USTAG representatives: 1 in-person, 5 virtual**
- **Next meeting in Fall 2023 in Boston, MA, US**



List of revisions in progress

- IEC 60076-1 General
- IEC 60076-2 Temperature rise
- IEC 60076-4 Guide to LI and SI testing
- IEC 60076-5 Ability to withstand short circuit
- IEC 60076-6 Reactors
- IEC 60076-9 Terminal and tapping markings **(NEW)**
- IEC 60076-18 Measurement of Frequency Response **(NEW)**
- IEC 60076-19 Uncertainties in Loss Measurements
- IEC TR 60076-26 Functional requirements of insulating liquids for use in power transformers **(NEW)**

New document in development:

- IEC 60076-25 Neutral Grounding Resistors



New Groups established

- **Advisory Group 39 (NEW)**
 - **Functional classification of power transformers, reactors and accessories**
 - recommend updates of definitions, performances and classifications
 - advise about the need to amend the scope and Strategic Business Plan
 - recommend standardization activities and their relative importance
- **Ad-Hoc Group 40 (NEW)**
 - **Power transformers related to energy transition such as PV, battery storage, e-chargers and hydrogen generation**
 - Develop an outline for a TR
 - Scope similar as IEEE C57.159:2016 (Phil Hopkinson)



IEC-IEEE relevant meetings this week (selected)

- **USTAG Meeting** (Phil Hopkinson)
 - Review TC 14 work program
 - Review specifically Dual Logo documents – stability dates
 - Discuss general interaction IEEE Transformers Committee – IEC TC14
- **WG C57.135 Guide for Phase-shifting transformers** (Ewald Schweiger)
 - Document is Dual Logo - revision process to be aligned
- **TF C57.159 Inverter transformer precautions** (Phil Hopkinson)
 - New IEC TC14 AHG 40 deals with similar aspects as C57.159
 - Consultation will be helpful to align work/documents