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Dear Readers,

In this edition, we wanted to bring together insights and best ideas related to different parts of the value chain. With collected materials on components, accessories, test methods, machines, technology, and the regulation, I hope that we have made a solid collection of ideas and solutions.

So, isn't this a truly disruptive idea: blending dry and liquid cooling transformer technologies? This is a must-read article.

In a series of articles on transformer components, MR's article introduces a new vacuum-type on-load tap-changer, which sets new standards for the challenging applications. In the interview with Jay Shekelton, he mentions bushings in the nacelle of some of the largest and most advanced wind turbines, and many other details about transformer components. In their article, M. Banovic and A. Banovic bring unbiased and credible research-based insights into future expectations for transformer materials and components. In this edition, you will also find information on bushings with integrated instrument transformers from RHM International, as well as information on protective vents from GORE that provide robustness for control and monitoring devices.

In his series of articles on measurement and test methods, V. Gurin elaborates IEEE practices of detecting defects in the windings and in the core. M. Grisaru discusses gas extraction from oils and the large variation in extraction methods. S. Hoek writes about UHF partial discharge testing, which ensures robustness against noise in the surrounding environment. S. Magdaleno-Adame presents the process of detection of high temperature in LV turrets of a single-phase GSU transformer.

V. Gurin and P. Ramachandran's column on Russian books on transformer engineering brings a bibliography for the period from 1980 to the most recent editions.

B. Das and R. Milledge review the present energy performance metrics for distribution transformers.

GEORG's article on core production discusses different requirements, processes and machines for power and distribution transformers, while the article by BR Tech discusses automatic winding and how to ensure significant winding time reduction and at the same time improve the quality.

K. K. Murty writes about transformer life extension and the impact of transformer oil filtering.

René Mrajca talks about the transition of business from trading transformers made by others to manufacturing own transformers and of the challenges encountered on the way.

WiPE interview brings a story about Sruti Chakraborty and solutions for risk management and failure mitigation of power transformers.

An article on Comel Transformers deals with capabilities of providing dependable products as well as engineering solutions designed to fit current and future business challenges.

Finally, I wish to thank you all for sharing your feedback regarding our learning as well as advertising services. Practically on daily basis, we are receiving words of recognition for the content available in the magazine, academy, TM's Industry Navigator, etc. Recently, one of our customers has shown me results of their campaign (definitely one of the best in our field), and it has made me so happy seeing Transformers Magazine to be such a hugely effective channel. My conclusion is: if we can significantly contribute to their campaigns, we can certainly contribute to others, as well.

I hope that you will enjoy your reading and I wish you a good health, peace and a lot of success.

Mladen Banovic, Editor-in-Chief