

Dear readers,

The November special edition of Transformer Magazine considers how we can expand the industry's capacity while reducing environmental impact and making better use of existing equipment and existing capacity. Our contributors approach this challenge through materials, manufacturing and the decisions that determine transformer reliability and service life.

We open with an interview with Sandeep Chakravarty of PTT and Jürgen Ach of Reinhausen, who speak about intelligent transformers, integrated digitalization, and the economic value of condition data. Our interview with Namita Asnani of Hitachi Energy brings a transformer lifecycle sustainability perspective to the edition.

Hitachi Energy examines aluminium radiators, considering how component design influences transformer performance and material use. Siemens Energy discusses expanding manufacturing capacity while reducing factory emissions.

Fernando Nuño and Bruno De Wachter from the International Copper Association examine copper availability, production and recycling, explaining why recycled content alone cannot determine a material's environmental benefit.

The transformer industry is exploring ways to expand capacity, reduce environmental impact, and extend equipment life

H-J's Orlando Giraldo and Frank Hincapie examine electric field stress in solid bushings, connecting detailed engineering with long-term reliability. Dr Diego Robalino of Doble-Megger writes about dielectric frequency response for bushing assessment. Ganz Electric's contribution focuses on renewable energy integration. Huaming adds a component supplier's perspective in "Powering the energy evolution", while COMEM examines moisture prevention, monitoring and diagnostics through MeDICA Moisture Care.

This edition offers various perspectives on different technical topics. Oleg Roizman continues his examination of loading capability and transformer rating; Marius Grisaru, Vitaly Gurin and Oleg Svyrydenko continue their discussion of core and frame insulation, while Bhaba Das addresses fragmented vendor ecosystems in transformer condition monitoring.

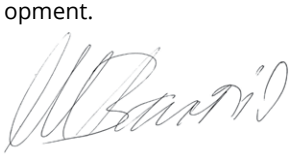
All these subjects also informed the Industry Navigator 2026 conference, held in Vienna from 6 to 8 October under the umbrella topic Sustainable Development Strategies for T&D. The post-event report revisits the critical business pillars supporting industry development, drawing on research covering more than 260 variables.

A central finding was that manufacturing expansion depends on supporting capabilities. Skilled people, engineering, materials, components, qualification and testing determine how much capacity becomes reliable delivery. Understanding early ordering and capacity reservations also helps companies interpret demand and plan investment.

Industry Navigator 2026 research, examining more than 260 variables, reveals the critical business pillars shaping sustainable growth in the T&D industry

Delegates' feedback was encouraging: 98.3% of respondents found the topics relevant and helpful, and 96.6% found the information and skills applicable to their work. Networking received favourable ratings from 98.3%, and 100% expressed interest in future Industry Navigator conferences.

I thank our contributors and delegates for sharing their experience. We look forward to continuing the discussion in Lisbon, from 28 to 30 September 2027, under the theme Enabling rapid development.



With best regards,
Dr Mladen Banović
Editor-in-Chief

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