

Dear Readers,

Will the substations of tomorrow be simple mirrored pictures of the substations of old? Not very likely. Just as the Grid Edge and technology changes bring about changes in assets, the substation of tomorrow must adapt to all of these changes to create reliability and resilience, especially in light of security and weather event challenges.



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As evidenced by the content we lined up for this issue, there is as much change taking place within new substation design as there is within any part of grid modernization. But we cannot simply upgrade the grid by making upgrades to the designs of new substations, we must also upgrade existing substations in ways we never required before. All of this brings great challenges to the substation engineer and to the utilities that rely on them.

Recently I read something from A.P. Meliopoulos, the Georgia Power Distinguished Professor of Electrical engineering at my alma mater, GA Tech, on the impact of inverters on the modern grid. A decade ago, we started discussing the kinds of changes we would need to make for the grid of the future and now that it is upon us, we are seeing first-hand the need for updating technology as Dr. Meliopoulos describes.



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But he is not alone in drawing attention to changes we must incorporate to create a more resilient, secure and reliable grid.

Finally, I have personally been concerned that our additional brand called Power Systems Technology and the even newer Green Energy Technology might be a distraction from the bread-and-butter Transformer Technology brand. But our community members' reactions and that of our Technical Advisory Board (TAB) has been nothing but positive and supportive. We are as committed to Transformer Technology as ever, but see the need for a more integrated approach to our members needs and wants. This issue is a perfect illustration of how that integrated approach will work in our digital publications.

Coming in September will be another issue of Women in Power Systems (WPS), our third, where we have curated some inspirational and enlightening featured women of note in our industry. Then in October we focus on Bushings & Components (LTCs, Gauges, Controllers). It is one of our annual favorite issues, and we have added new advances in other transformer components, like LTCs and controllers. Bushing technology is also adapting to new demands with new materials and manufacturing processes that the professional engineer must keep track of, so while much of the editorial space is spoken for, if you have an article, perspective or interview you would like to submit, please reach out to me at alan.ross@apc.media as soon as possible. We will be closing editorial content soon.

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