István Vokony

Address: Department of Electric Power Engineering
Faculty of Electrical Engineering and Informatics
BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS
1111 Budapest Műegyetem Rkp. 3. (Hungary)

Primary Email: vokony.istvan@vik.bme.hu
Additional Email: vokonyistvan@gmail.com
Phone Number: +36 30 640 9013
ORCiD: 0000-0003-0079-9134

István Vokony. Born in 1983 in Mosonmagyaróvár, Hungary, completed his electrical engineering degree at the Budapest University of Technology and Economics (BME) in 2007, followed by a Master's degree in Engineer-Economist from Corvinus University of Budapest in 2010. Continuing his academic pursuit, he defended his doctoral thesis summa cum laude in 2013 at the Doctoral School of Electrical Engineering, specializing in Power Engineering and Electrical Engineering, at BME.

Since 2007, István has been teaching and conducting research at the Department of Electric Power Engineering at BME, progressing through roles as a doctoral student, scholarship PhD candidate, acting expert, teaching assistant, assistant professor, and since 2019, as an associate professor. From 2014 until 2023, he served as an architect and then as department head at E.ON Business Services Hungary Ltd., within the strategy and architecture division.

An active participant and leader in numerous national and international research and development projects, he has been a member of the Hungarian Scientific Association of Energy (MEE) since 2007, serving on its Budget Committee, Organization Committee for several terms, and chairing the Thesis and Dissertation Review Committee from 2013. He was the founding vice-president of the MEE Mechwart András Youth Section from 2010 to 2016. Additionally, he holds the position of vice-chair of the Collegium for Student Association of Energy at his alma mater, is an active member of the IEEE BUTE Student Branch, the Association of Energy Engineers (AEE), and is a founding member of the World Energy Council's HYPE initiative. His leadership extended to serving as a chair of the IEEE Power & Energy Societies from 2016 to 2019 and has been vice-chair since 2019, and chair again from 2023.

His research focuses on the system integration effects of renewable energy production, dynamic stability analysis, synthetic inertia, and network analysis, furthermore interests lie in energy system stability, distributed energy production, smart grids, and energy policy.

A former member of the MTA-BME Lendület FASTER Research Group, his expertise in research and development projects encompasses 18 projects over the past five years. He actively participates in H2020 projects, including FLEXITRANSTORE (Grant No. 774407), INTERRFACE (Grant No. 824330), FARCROSS (Grant No. 864274), and OneNet (Grant No. 257739).

As an author, he has contributed to 68 journal articles and 67 conference presentations, authored 7 books or book chapters, and his publications have amassed ~600 independent citations with a combined impact factor of 81.234.

Reviewer At The Following Journals:

- Periodica Polytechnica Electrical Engineering and Computer Science
- Elsevier Renewable and Sustainable Energy Review
- Elsevier Electric Power System Research
- Elsevier Journal of Energy
- Elsevier Energy Policy

- Renewable Energy & Power Quality
Additional Information: - Member of the ICREPQ-International Scientific Committee - RE&PQJ-Scientific Committee Member