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Integrating Digital Energy Education in Higher Education

Berna Balci, Amila Kaharevic, Antonello Monti

RWTH Aachen University/ Institute for Automation of Complex Power Systems

Abstract

The global energy landscape is undergoing a profound transformation driven by the transition towards renewable energies, necessitating the development of new occupational profiles and skill sets. Higher education institutions play a pivotal role in preparing a skilled workforce equipped to navigate the complexities of this modern energy landscape. To effectively address these challenges, academia must engage a diverse range of students and increase awareness and understanding of digital energy topics to foster innovation in the evolving energy sector. An interdisciplinary approach is crucial in cultivating a culture of collaboration and creativity. In this work, an approach to engage students through the integration of digital energy topics into three distinct lecture series at RWTH Aachen University is presented. Through these initiatives, students are exposed to different facets of digital energy, thereby raising awareness and igniting curiosity about this rapidly evolving field. This serves as the foundation to motivate students to pursue further research and activity in digital energy, whether through possibilities at the university or future career opportunities.

Keywords Higher education, digital energy, energy transition, interdisciplinary lecture, student awareness and understanding