

Abstract and bio, Dr Olli Vigen, KTH

Title and abstract

Navigating the opportunities and challenges of integrating data driven energy applications in the real estate sector

Digital technologies and data-driven energy applications hold great potential for revolutionizing the real estate sector. These technologies offer avenues to enhance user experiences, streamline business operations, and significantly reduce the industry's environmental impact. Moreover, buildings are emerging as integral components of the electricity grid, leveraging technologies like electric cars and batteries to mitigate demand fluctuations.

Despite these transformative prospects, the industry confronts implementation challenges stemming from its fragmented structure. Many organizations lack the resources, expertise, and incentives needed to adopt technologies, rendering real estate among the least digitized sectors.

To address this, researchers, engineers, business developers, and policy makers are tasked with crafting easily scalable technologies, methodologies, business models, and policies. This concerted effort aims to propel digital transformation, fostering a more sustainable and technologically advanced real estate sector.

Bio Dr Olli Vigen, KTH

Dr Olli Vigen is a researcher and teacher at the KTH Department of Real Estate and Construction Management. His research interests cover organisational and managerial questions related to digitalisation and sustainability in the built environment. In addition, he works as an advisor to investors, entrepreneurs, property owners and trade associations in the real estate sector.