Abstract

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# Designing the business model of an energy data hub

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## Abstract

An energy Datahub is a central model that allows all data to be stored, separated, analysed, and sent to other peers for specified actions. Digitalisation, increasing small-scale renewable generation and prosumers, flexibility, and Demand Response are the key parameters that pave the way for the implementation of Datahubs.

In this paper, we present the business model of an energy Datahub in Turkey. The Datahub will be useful in better engagement with residential customers, introducing smart tariffs and achieving Demand Response, supporting prosumers, increasing transparency and efficiency in energy markets, and enabling new business models via innovation and development.

The Datahub will provide an environment where data analytical tools could be employed, which will foster the use of machine learning and deep learning algorithms.

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## Biography

Sinan Küfeoğlu works as International Outstanding Research Fellow at the Department of Industrial Engineering, Istanbul Technical University and Adviser in Bahcesehir University, Istanbul, Turkey. Previously he worked as a Research Associate at the Energy Policy Research Group, University of Cambridge. He completed his D.Sc. and M.Sc. degrees in Electrical Engineering at Aalto University, Finland in 2015 and 2011 respectively. He got his B.Sc. degree in Electrical and Electronics Engineering Department from Middle East Technical University, Ankara, Turkey in 2009. His research interests include electric power reliability, impacts of nature events on the continuity of supply, economic investigation of microgrids and demand side management.

 