



CITIES invites to Workshop / Webinar August 12, 2020, 9:00 AM - 12:00 PM CEST

Data-Driven Technologies for Energy Efficiency and Flexibility

In the quest for fossil-free cities and a fossil-free building sector, there is continued need to maximise energy efficiency of buildings and energy systems in cities. Even the limited energy use should to a maximum possible extent come from renewable sources, and the classical challenge of balancing demand and supply becomes an issue, which calls for flexible operation of all units.

Contemporary digital and data-driven methods are key to optimize the operation of buildings and district energy systems such that use of fossil fuels can be minimized without compromising on comfort and functionality of the built environment. The workshop will give an overview of potentials and state-of-the-art technologies in the field.

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9:00-9:05	Carsten Rode, Professor, DTU Civil Engineering	Welcome and Introduction
9:05-9:25	Anders Skjøtt, Advisor Danish Energy Agency	Initiatives from the Danish Energy Agency: Buildinghub and preliminary findings from subsidised projects on Digitalisation
9:25-9:40	Søren Skov Bording, Managing Director, Center Denmark	Overview of Center DK activities, incl. FED-project
9:40-9:55	Henrik Madsen, Professor, DTU Compute	Data-driven methods - General introduction and some specific examples
9:55-10:05		Break
10:05-10:20	Henrik Aalborg Nielsen, Director of Analysis and Modelling, ENFOR A/S	Data-driven methodologies for large-scale implementation and roll-out
10:20-10:40	Stijn Verbeke, Senior Researcher, VITO	Smart Readiness Indicator
10:40-11:00	Karen Byskov Lindberg, Senior Research Scientist, SINTEF	FLEXBUILD project – Impact of optimal utilisation of building's energy flexibility on a regional level
11:00-11:05		Break
11:05-11:20	Rongling Li, Assoc. Professor, DTU Civil Engineering	Forecasting and segmentation of daily energy load profiles of buildings using machine learning
11:20-11:35	Christoffer Rasmussen, PhD Fellow, DTU Compute	REBUS Connect°, and data-driven technologies from IEA EBC Annex 71 and on PhD project
11:35-11:55		Discussion
11:55-12:00	Carsten Rode	Closure

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