



## COORDICY: ICT-driven Coordination for Reaching 2020 Energy Efficiency Goals in Public and Commercial Buildings

COORDICY is a strategic DK-US interdisciplinary research project for advancing ICT-driven research and innovation in energy efficiency of public and commercial buildings. The project thereby contribute to the Danish goals of achieving a 75% reduction in energy consumption in new buildings by 2020 and a 50% reduction in existing buildings by 2050, and the United States' goal of doubling its energy productivity by 2030.

COORDICY will facilitate ICT-driven research and innovation in advancing the energy-performance of newly built energy-efficient and existing conventional public and commercial buildings. This will be achieved by developing a holistic ICT-centered approach to coordinate the actual energy-performance of building systems operation to meet the original intent of building design and presumably advance it beyond, without compromising occupant comfort and efficiency.

COORDICY will do so by providing the theoretical and technological means for benchmarking, diagnosing, and controlling building operation, considering relevant factors such as occupant behavior, weather conditions, construction typologies, thermal properties, building systems and controls, and their complex interactions. Diagnostics of energy-performance gaps revealed during benchmarking will support decision-making for cost-efficient tradeoffs between energy-retrofits and advancing the intelligence of building control systems. The developed approach will enable public and commercial buildings to play a central role in a future sustainable energy system.

The COORDICY project links universities, technological service institutes, public bodies, municipalities and industrial partners in a joint international effort on research and innovation of ICTcentered building operation technology of commercial interest to a fast growing global market.

### Project period:

March 1, 2015 – February 28, 2019

### Budget:

DKK 42.5 Million

### Funding:

Innovation Fund Denmark

### Project Manager:

Professor WSR, Ph.D. Bo Nørregaard Jørgensen, Centre for Energy Informatics, University of Southern Denmark (SDU)

### Research partners:

Center for Energy Informatics, SDU  
University of California at Berkeley (UC Berkeley)  
Lawrence Berkeley National Laboratory (LBL)  
NASA Ames Sustainability Base (NASA Ames)  
Danish Technological Institute (DTI)

### Partners:

Insero Software  
Municipality of Aarhus  
Municipality of Odense  
Green Tech Center (GTC)  
Odense University Hospital (OUH)  
Danish Cleantech Hub (DCH)  
Danish Building & Property Agency (DBPA)  
Rambøll  
Siemens  
ReMoni  
Develco Products

### Additional partners:

Likan Building Informatics



UNIVERSITY OF SOUTHERN DENMARK