Centre for IT-Intelligent Energy Systems in Cities

CITIES Second General Consortium Meeting (GCM)
26th – 27th May 2015 at DTU, Lyngby Campus, Denmark

Program for CITIES inaugural General Consortium Meeting, 26th - 27th May 2015, DTU Lyngby Campus, Denmark.

CITIES is happy to present the program for the second General Consortium Meeting.

In this pamphlet you will find the program for the CITIES General Consortium Meeting and practicalities regarding registration, venue, transportation, and hotel opportunities.

Registration
Registration using this link no later than 20th of May: https://docs.google.com/forms/d/13pncbWuJWrBse5cRAywqyemFksvgCr-_aKbCcCeBq8Y/viewform

Venue
Building 101, Meeting room 1.
The Technical University of Denmark, 2800 Lyngby, Denmark.

Directions
The Lyngby Campus of DTU is 25 minutes from Copenhagen airport by taxi (approx. USD 60).
The efficient Danish public transportation system can get you to the Lyngby Campus from the airport in approximately 1 hour.
See more on how to get there: www.dtu.dk/english/About/Practical-information/Directions/DTU-Lyngby-Campus

Hotel
We recommend the Scandic Hotel - www.scandichotels.com/Hotels/Denmark/Copenhagen/Scandic-Eremitage/#.U1bkwPmSyoM -
in Lyngby which is frequently used to serve DTU's guests. It is located in central Lyngby and is approximately 5-10 minutes from the campus by either taxi or bus. Busses 300S and 190 depart from the bus stop opposite the hotel (Lyngby Storcenter), and busses 180E and 181E depart from Lyngby train station.

The bus timetable and general travel information can be found at www.rejseplanen.dk/.

There will be a self-financed GCM dinner the 26th at Madklubben.dk. Expected price range: 3-400 DKK.

Contact
If you have any questions please contact:

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CITIES

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Tuesday

Block 1: Introduction

9:00 **Registration and coffee**

9:30 Welcome; *Alfred Heller*, DTU Civil Engineering

9:40 CITIES - Status and visions; *Henrik Madsen*, DTU Compute

Block 2: WP1-7 "Status + example"

10:00 A platform for automated data transformation and anonymization: *Xiufeng Liu*, DTU Management

10:15 Status and results for modelling energy supply in CITIES; Illustrated by application of data for the case of Sønderborg; *Dadi Sveinbjörrnsson*, DTU Energy

10:30 Aggregation of building energy demands; Sønderborg case; *Panagiota Gianniou*, DTU Civil Engineering

10:45 **Coffee break**

11:00 Embedding demand-side participation in electricity markets; *Pierre Pinson*, DTU Elektro

11:15 HPMPC - A new software packages with efficient solvers for model predictive control; *Gianluca Frison*, DTU Compute

11:30 Modelling cities in relation to countries - Copenhagen as an example; *Jakob Zinck Thellufsen*, AAU Plan

11:45 Mathematical models for the management of combined heat and power systems; *Marco Zugno*, DTU Compute

12:00 **Lunch**

Block 3: Data repositories and cloud solutions

13:00 Cloud based control of heat pumps; *Per Dahlgaard Pedersen*, NeoGrid

13:20 Forecasting and Energy Information Services; *Henrik Aalborg Nielsen*, ENFOR

Block 4: Description of demonstration projects

13:40 SIFRE and perspectives for city and national planning; *Anders Bavnhøj Hansen*, Energinet.dk

14:10 Methods and methodologies for implementing a fossil-free society on Faroe Islands; *Emil Sokoler*, DONG Energy and DTU Compute

14:40 Use of frequent measurements in DH systems; *Nina Detlefsen*, Dansk Fjernvarme/Grøn Energi

15:10 Price responsive predictive control of heat pumps in a family house; *Jacopo Parvizi*, DTU Compute and Grundfos

15:40 **Coffee Break**

16:00 Use of data for energy efficiency improvements in buildings; Intelligent energy management before intelligent energy renovation of buildings; *Gorm Elikofer*, HOFOR, Copenhagen

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Tuesday - continued

Special presentation

16.30 Challenges with the Danish pricing model; *Helle Juhler-Verdoner*, Dansk Energi.

17:00 Information on a new EERA JP on Energy Systems Integration; *Mark O'Malley*, UCD, Ireland

17:30 Summary by *Henrik Madsen*, DTU Compute

17:45 End of day and transportation to Madklubben (dinner)

Wednesday

Block 4: continued

8:30 Coffee and croissant

9:00 Dynamic prices for heat delivered to district heating systems; *Mikael Togeby*, EA Energy Analyses, Fjernvarme Fyn, and AffaldVarme Aarhus.

9:30 Integration of distributed energy resources and demand response in energy systems, *Niamh O'Connell*, DTU Compute and *Benjamin Kroposki*, NREL, Denver, US.

10:00 District heating production using heat reclaim in a supermarket refrigeration system; *Torben Green*, Danfoss

10:30 Coffee Break

11:00 Model predictive control of heat supply to greenhouses; *Henrik Madsen*, DTU Compute, and *Lasse Elmelund Pedersen*, Fjernvarme Fyn

11:30 Power flexibility in summer houses, TSO and DSO interactions, *Thomas Kieldsen*, NOVASOL; *Juan Miguel González*, DTU Compute; *Anders Bavnhøj Hansen*, Energinet.dk and *Claus Amtrup Andersen*, Eurisco

12:00 Lunch

13:00 Energy flexibility in wastewater treatment; *Rasmus Halvgaard*, DTU and Krüger

Special presentations

13:20 Examples of Data as a Service (DaaS) for Distributed Energy Resources; *Claus Amtrup Andersen*, Eurisco.

13:40 Thermal mass in buildings and energy flexibility; *Jérôme Le Dréau*, AAU Civil Eng.

Block 5: International Advisory Board

14:00 Status and plans for integration of wind and solar power in Australia; *Magnus Hindsberger*, Australian Energy Market Operator (AEMO), Australia

14.30 Coffee Break

15:00 Energy performance of buildings; Status and strategies for using dynamical calculation methods; *Hans Bloem*, EU Joint Research Centre, Ispra, Italy

15:30 Discussion and summary; *Poul Erik Morthorst*, DTU Management and *Peter Rathje*, ProjectZero

16:00 End of day

Immediately after the closing of CITIES second general consortium meeting there will be a meeting between the IAB, the WPMT and the CMT focusing on advices to CITIES. This will take place between 16:15 and 17:15.