



Resource Efficient Cities implementing ADvanced smart CitYsolutions



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no ENER/FP7/609127/READY



Welcome to Smart Energy City Seminar

For sustainable planning using smart and green
business solutions within building
retrofitting, renewable energy, energy storage and balancing,
transport and district heating / cooling.



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Introduction

- Outline of program today
- READY project and consortium

Project Coordinator, READY



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COWI



Mission of this READY event

- Knowledge sharing!
 - To share the findings of READY to relevant target groups
 - Inspiration and replication
- Objective
 - To increase the number of advanced smart city solutions used for resource efficient cities
- Target groups
 - Decision makers
 - People who are working on advanced level in the energy field

Program part A

Green Governance and EV infrastructure

Wednesday May 22th 2019

09:00	SMART ENERGY CITY introduction Reto Michael Hummelshøj, COWI Long term political cooperation towards a sustainable community Magnus P Wåhlin, city council member, Växjö Municipality, Sweden
09:30	Green governance in Växjö and Aarhus municipalities Henrik Johansson, Växjö Municipality & Kirsten Dyhr-Mikkelsen, Aarhus Municipality Covenant of Mayors as a tool for progress Dr. Vlasta Krmelj, Mayor of Selnica ob Dravi, Slovenia
11:00	Coffee break
11:15	Electric vehicles infrastructure Mette Marie Knudsen, E.ON Denmark & Henrik Johansson, Växjö Municipality
12:00	Lunch

Program part B

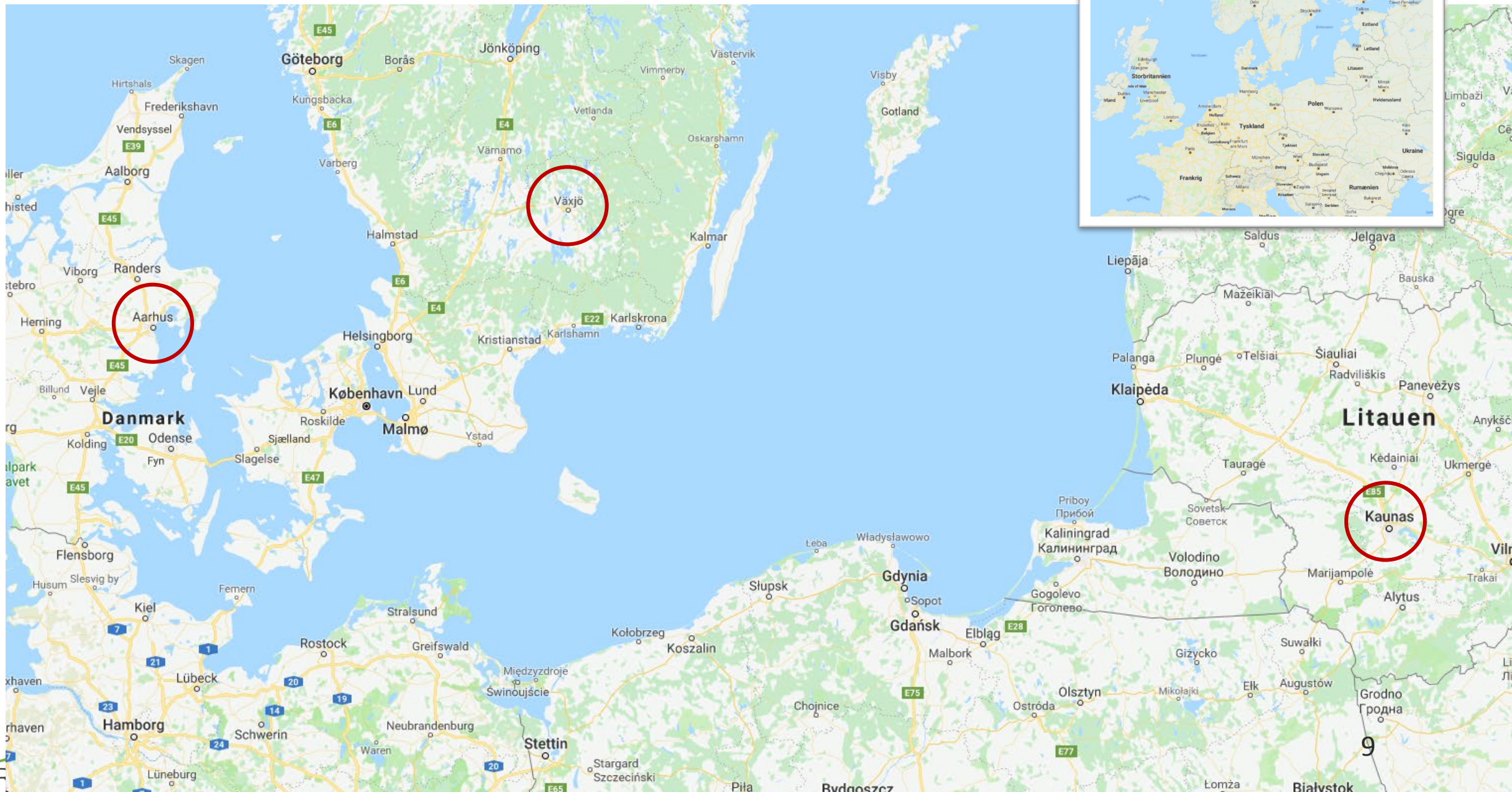
Buildings and interaction in the energy supply system

13:00	Retrofitting of buildings – a holistic approach to save 50% Stefan Olsson, Energy Agency for Southeast Sweden & Reto Michael Hummelshøj, COWI
14:40	Coffee break
15:10	Interface of life & digital transition for smart living Per Bengtsson, Wexnet
16:00	Selling a KWh three times – at district heating/cooling loop Johan Saltin, Växjö Energi AB
16:45- 17:00	SMART ENERGY CITY summary Reto Michael Hummelshøj, COWI
19:00	Conference dinner at Teleborg Castle

READY for a green future



- Aarhus, Växjö and Kaunas municipalities
- 33.3 million EUR
 - 19.2 million EUR support from the EU 7th Framework Program for Research and Innovation
- Part the EU Smart Cities and Communities
- December 2014 – December 2019+ X month monitoring & evaluation





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Cities

Aarhus + Växjö + Kaunas

Energy companies

AffaldVarme Aarhus + Växjö Energi + Kauno Energija

Knowledge institutions

*Aarhus University + Linnaeus University +
Danish District Heating Association + Energikontor Sydøst +
Austrian Institute of Technology + Lithuanian Energy Institute*

Building owners

*Building association Ringgården +
Växjö Bostäder + CA Fastigheter + CA I Växjö*

Technology developers

*RACELL + Lithium Balance + Danfoss
+ Kamstrup + E.On Denmark
+(DONG & IKEA)*

Consultants

COWI + LGI Consulting



The READY project

Resource Efficient cities implementing **AD**vanced smart cit**Y** solutions

Focus:

- IRL Smart City Demonstration
- Resource and cost efficiency
- Existing building mass
- Business models
- Innovations



Advanced energy efficient solutions:

- Heat pump for waste heat recovery
- PVT solar modules
- Batteries
- Flat-stations
- Smart Building Energy Hub
- User interface
- Smart mobility, EV charger

Summary of the day

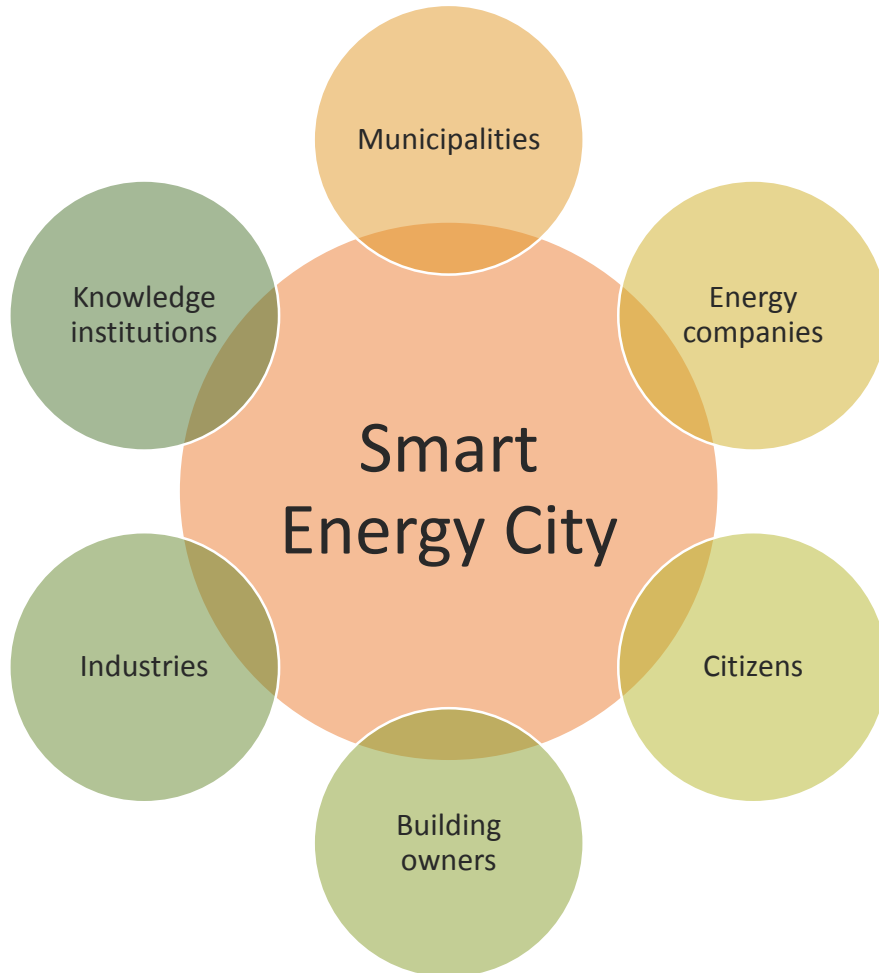
Smart Energy City Seminar

For sustainable planning & business solutions

- building retrofitting
- renewable energy
- energy storage and balancing
- transportation
- district heating / cooling.



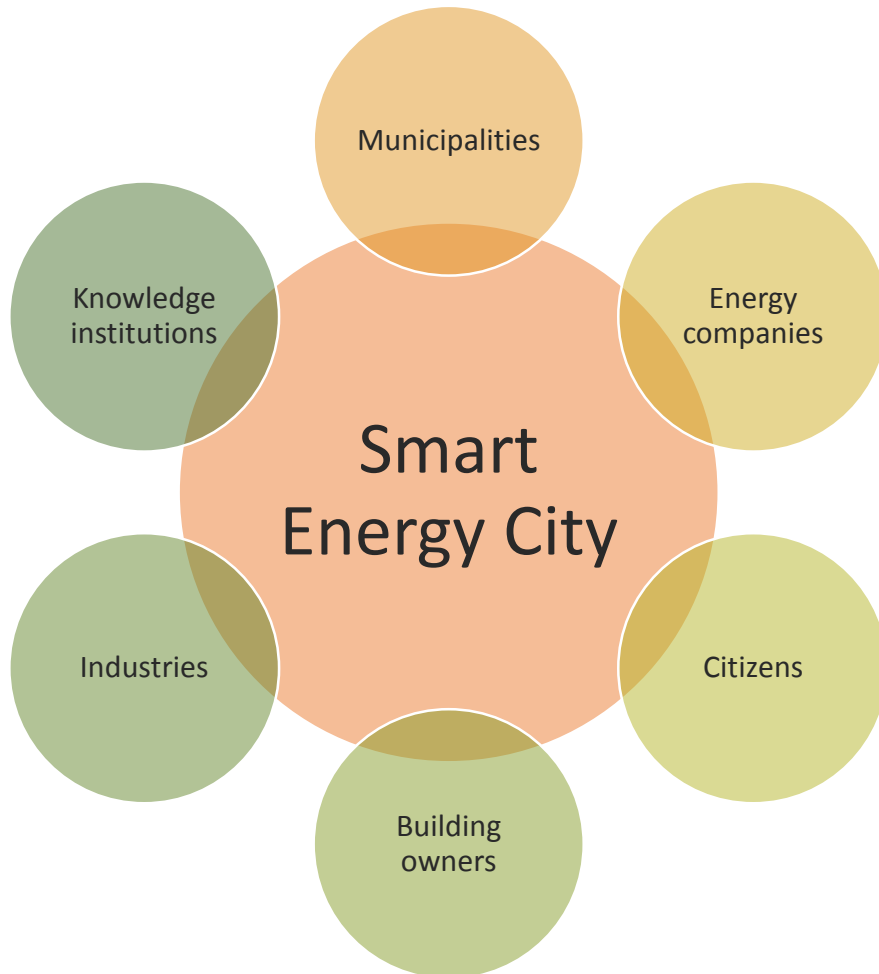
Smart Energy City – Ready Approach



Involvement and long lasting commitment of stakeholders is the key to success 😊

- Municipalities committed to Covenant of Mayors
 - Strategic Climate/Energy Action Plans
- Energy companies
 - Visionary approach
 - Willing to test new solutions even if they are not profitable in first trial

Smart Energy City stakeholders



- Citizens involvement
 - Promote use of electric vehicles
 - Influencing user habits e.g. use of hot water
- Building Owners
 - Individual metering and frequent feed-back IOT
 - Consider own co-production of electricity
 - Recovery of heat losses incl. waste water?
- Industries
 - Participate in demo projects as testbeds and living labs
- Knowledge Institutions
 - Test new products, documented monitoring and evaluation

Your reflections upon the day.....?



What is the most important experience you bring home from today?

What is the most surprising or thought-provoking finding from today's speakers?

What specific actions will you initiate in your organisation based on today's learning?

THANK-YOU FOR YOUR PARTICIPATION 😊

- Remember to fill-out the evaluation form