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# SEC-Bench Pilot Community FREDERICIA, DENMARK

Presented by PROPERTY MANAGER, JAN HANSEN



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# FREDERICIA MUNICIPALITY

- Background
- Energy planning in Fredericia
- Covenant of Mayors – joint agreement with 3 counties
- SEC-Bench and Fredericia
- My experiences
- Future - potentials



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## FREDERICIA BACKGROUND INFORMATION

- A city of 50,000 residents in central Denmark
- Historic stronghold
- Industrial traditions - Industrial work force and therefore a strong city with a little unemployment
- Shell refinery and Carlsberg beer
- Increasing housing demands: a positive challenge for a new green buildings.



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## ENERGY IN FREDERICIA

- The Danish energy reports: EMO
- Electricity consumption: 503 mio. kWh (2008)
- CO2 emissions: 19,1 tonnes / citizen (2008) 44% from Shell
- Sustainable energy in Fredericia : 21% from solar, wind and biomass.
- Energy planning and CO2 reduction target : 25% CO2 reductions by 2015 compared to 2006
- DONG energy and Fredericia : a public/private partnership
- Investment : 70% of 1,5 mio. Euros in 2010 used to improve ventilation – financing is from the municipality alone

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## COVENANT OF MAYORS

- A joint agreement for 3 neighbouring municipalities – committing to joint efforts with Kolding and Middelfart municipalities. Called the triangle region in Denmark.



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## SEC-BENCH in FREDERICA

- A pilot municipality since 2008
- Motivated by the possibility to benchmark with EU partners
- Which buildings were chosen for the SEC-Bench project
- The data collection for SEC-Bench was not difficult
- The SEC-Bench tool supports the energy and climate plan for municipal buildings in Fredericia (SEAP)



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## MY EXPERIENCES

- Knowledge sharing between pilots – door opener for personal networking between municipal actors
- The importance of correct data in energy consumption and CO2 accounting gives security for payback on investments
- Street lighting: my visit to Greece gave me inspiration to collect data about street lighting in Fredericia



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# FUTURE SEC-BENCH POTENTIALS

- The tool can be used for awareness raising for the people who run the municipal buildings
- Benchmarking: external and internal
- Continued data collection in Fredericia
- SEC-Bench helps control the buildings energy performance.



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# THANK YOU FOR YOUR ATTENTION!

- Name: Jan Hansen
- Contact: Fredericia Municipality, Denmark

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