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Act Now! Presentation (1)

LEEG-Sonderborg achievements

– how the LEEG-Sonderborg has helped Sonderborg replicate the **Local Energy Efficiency Group** experience and best practices into other local private sector challenges

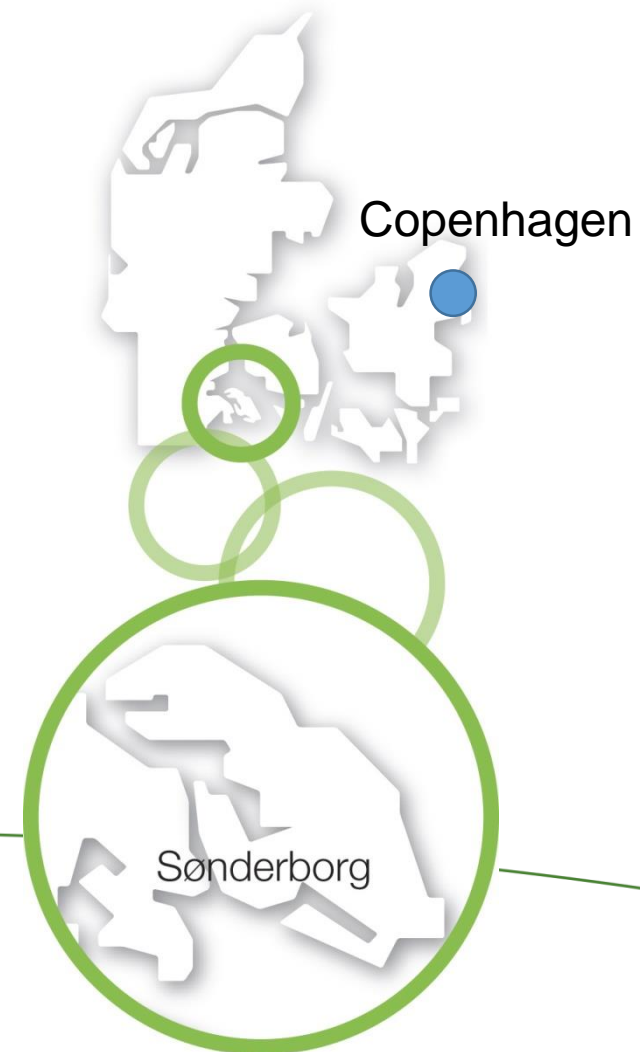
Peter Rathje, ProjectZero, Sonderborg/Denmark

2020.11.19

LEEG Sonderborg

Facts about Sonderborg

- Known for industry (Danfoss HQ), farming/food and tourism
- Located in the south of Denmark near the Danish/German border and with sea access to the Baltic Sea
- 75,000 citizens
- Political city-council ambition (2007) the co-create a ZEROcarbon Sonderborg by 2029 based on public-private partnership collaboration
- The ProjectZero vision is the enabler for Sonderborg to achieve its shared goal



The private home-owner segment

- Energy retrofit in public buildings were initiated in 2008
- The private homeowner segments lacks common structure
 - Consist of 19,700 families, out of which app. 8,000 are living in rural or smaller villages (outside district heating areas)
- The Municipality and various state and EU funded projects had approached the segment, but there was before LEEG generally a lack of coordinated planning and follow up
- A ZEROhouse was built 2008 as a role model – producing its own energy!



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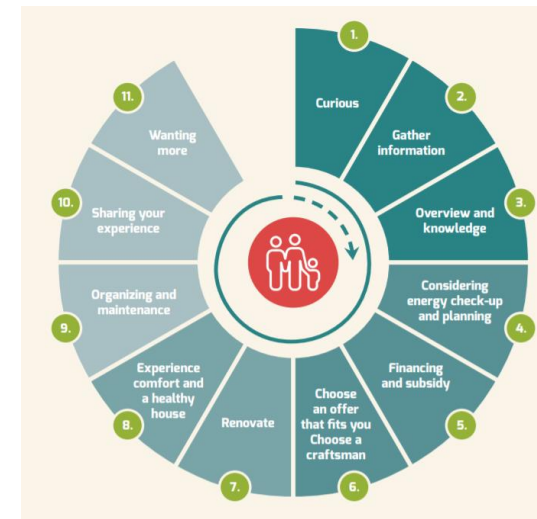
Constituting the LEEG

- 12 representatives from public and private sector stakeholders
 - Building Authority, manager
 - Rural area development, manager
 - Local craftsmen, managers
 - Local banks, managers
 - Vocational school, manager
 - Real estate company, manager
 - District heating company, manager
 - Local architect, owner
 - ProjectZero Company, project managers
- A bank-manager being the LEEG- chairman
- Supported by ProjectZero staff



Customer Journey – aligning stakeholders

1. Improved communication towards homeowners of WHY and HOW
2. Training of 18 municipal authority staff-members supporting step 2 + 3
3. Training of 55 home-owner advisors in the 11 local banks supporting step 4 + 5
4. Training programs for local craftsmen working along step 6 – 9
5. Progressing the Customer Journey as the new shared safe platform supporting homeowners



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Co-created and planned five climate actions, defining the Roadmap2025 home-owner actions

- The Customer Journey as a common process to secure stakeholder-participation, approach and offerings along the 11-step journey
 - Building Envelope: Insulation, windows, ventilation
- Co-creating and implementing a facilitated replacement of existing oil- and gas-burners by district heating (urban areas) and heatpumps (rural areas)
- Planning for the next wave of rooftop-integrated PV-systems

**Carbon reduction
Owner-occupied
housing**

**15,000
tonnes** CUSTOMER JOURNEY

**12,000
tonnes** HEAT PUMPS
MUST PHASE OUT OIL
AND GAS BURNERS

**4,500
tonnes** DISTRICT HEATING -
PHASING OUT OF
OIL AND GAS BURNERS

**0
tonnes** REDUCED
POWER CONSUMPTION

**3,500
tonnes** ROOF-INTEGRATED
SOLAR SOLUTIONS FOR
DETACHED HOUSES

**35,000
tonnes**

Total



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Scaling the LEEG-structure to Roadmap2025

- Created additional 7 LEEGs to support the Roadmap2025 creation process
- Addressing almost 400,000 tons of carbon-emissions to be reduced by 2025
- More than 100 participating stakeholders and experts
- Facilitated SummerSummit in September 2020, where 65 participated despite C-19 restrictions





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 **Interreg**
Baltic Sea Region



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 ACTION FOR
ENERGY EFFICIENCY
IN BALTIC CITIES
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