

An aerial photograph of a coastal town, likely Middelfart in Denmark. The town features a mix of residential and commercial buildings, many with red-tiled roofs. A prominent white building with a red roof and a central tower is visible. The town is situated along a coastline with a harbor area containing several boats. The sky is blue with some light clouds.

**#ESCO #ESCO 2.0 #MostSustainableBuilding
#CommunityEnergy**



Morten Mejsen Westergaard, Municipality of Middelfart, DK

Denmark

- Municipality of Middelfart
- One of 98 local authorities
- Approx. 40.000 inhabitants



Vision: Building bridges
to the future – together



Strategy: Green Growth

Concrete results.



 **Broerne**
begynder her

en del af **trekantområdet**



www.middelfart.dk



ESCO Free Energy Savings!

Denmark's first full scale project



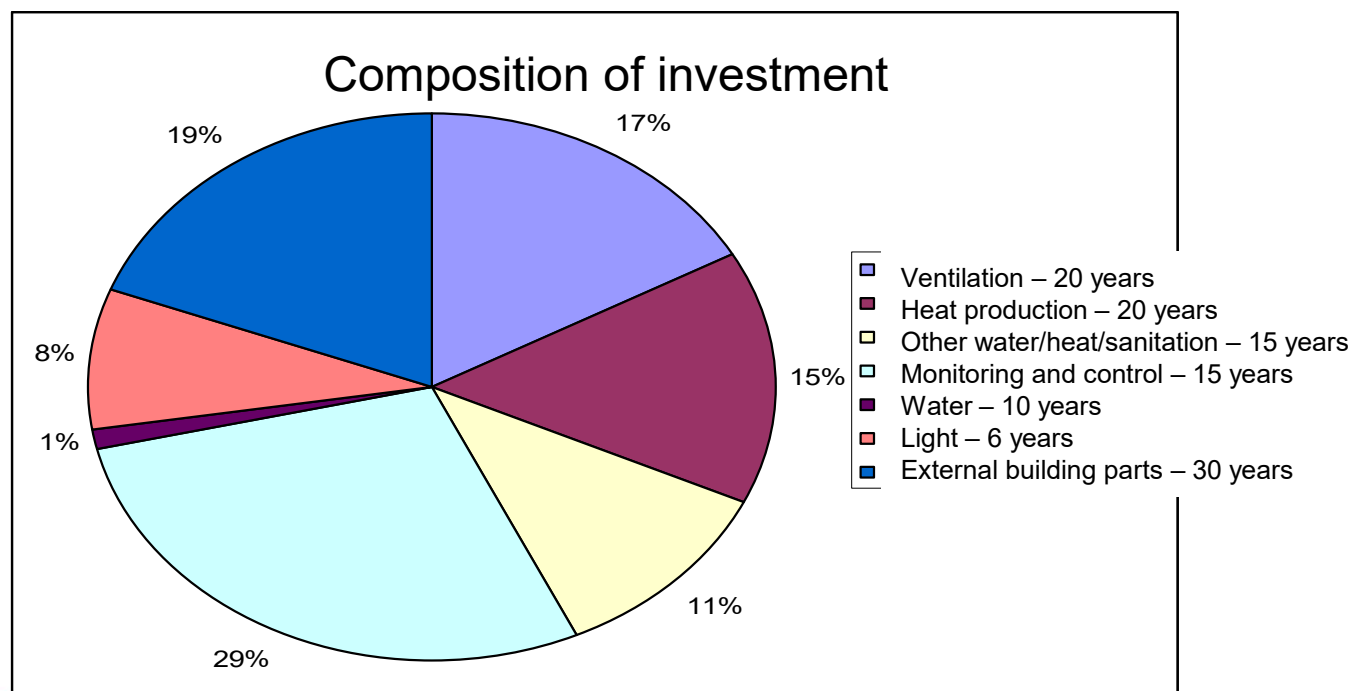
Politicians participated in process

- Wish list
- Preliminary study of energy consumption in buildings
- Embedding in the organization
- Decision regarding tender
- Detailed and precise study
- Decision on implementation
- Monitoring and warranty

Scope and savings

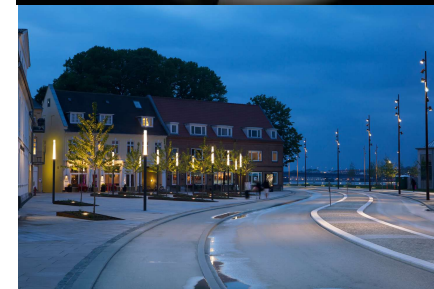
Distribution of investments and expected durability in years

Total investment: Approx. 6 mio. euro



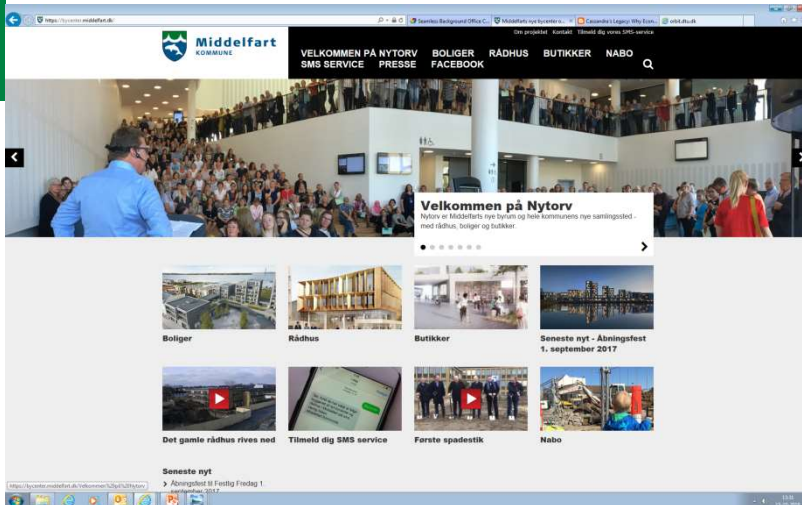
The learning journey

- Wish list
 - Great for a political system
 - Co-creation, involve and trust
 - Get job done, fast
 - Good press
 - Include NEBs
 - Be ambitious
-
- Leading to many other projects!



Denmark's most sustainable Building

DGNB certified – Platine & Diamond



ESCO 2.0

We want:

- ✓ Smart Grid labeling
- ✓ Indoor Climate
- ✓ Space management
- ✓ Energy Savings



Task: Integrate high performing buildings in a zero-emission society.

A background image of a bright blue sky with scattered white clouds. Sun rays are visible, particularly on the left side, creating a sense of brightness and optimism.

ESCO 2.0

Smart grid label
Space Management
Indoor Climate
Energy savings

BUILDING ADVISOR

Business as usual

New intelligent layer



Connect

Not just Schneider Electric products, also 3 party



Obtain

Data from tech. solutions and products



Analyse

The big amount of data with BA



Action

Through real time and rational decision proposition

OPTIMATED IN PARTNERSHIPS

Smart Energy @ Home

200 homeowners control & monitor energy in their houses



Insight in thermal characteristics



You can document your insulation works...you can guarantee it...what does that mean for financing?

Space & Indoor Climate

To many buildings are in idle

Indoor climate needs to be improved

A part of the ESCO 2.0 “most wanted list”

- Smart Grid Label
- Energy saving
- Space management
- Indoor climate





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Community Energy the fantastic village of Føns...



Chapters in the story

1. Once upon a time...

- ✓ The Villagers
- ✓ The Politicians
- ✓ The Civil Servants

1. The good deeds and actions

2. Some stuff to think about



Challenges

- Global warming
- Migration towards cities
- Energy prices and old oil boilers
- Employment rates
- Service – Schools, shops etc.





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COP15 COPENHAGEN

UN CLIMATE CHANGE CONFERENCE 2009



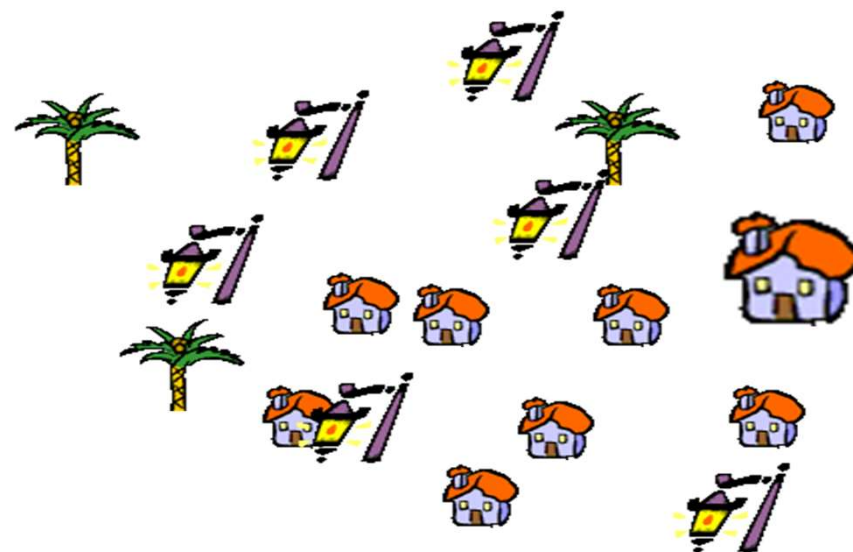
- The COP 15
- A local Climate Change conference, in Middelfart
- And nothing was going on...until

- And then the Citizens began to create and co-create



 **groente**
begynder her

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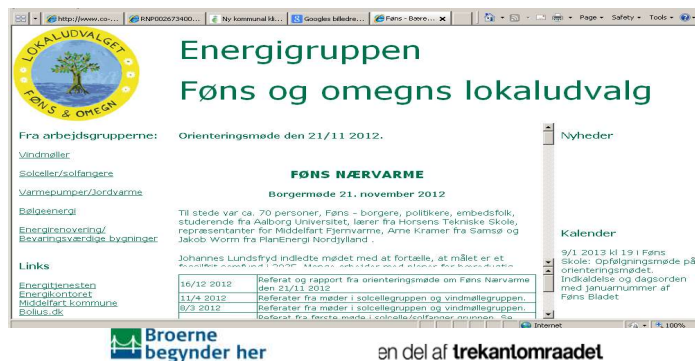




Middelfart
KOMMUNE

- In the beginning

- **Energy savings** and retrofitting of private households
- Collaboration with craftsmen, leading to **new education** system for craftsmen in energy savings
- ESCO light **business model** developed.
- Application to become sustainable **demonstration village**
- **5 local workgroups** for future heating systems
- Travel to Energy Island Samsø, **with politicians**
- Ambition of local Biomass **District Heating system** – A system prepared for Smart Energy and using Heatpumps
- **Applied** to get a small windturbine to support heating ambition
- Participating In Denmark's **largest Smart Energy project** on savings in privat households
- Have tested **electric cars** and car sharing concepts
- **And a lot more**





Middelfart
KOMMUNE

Celebrating Community Energy

01. October 2015



- http://www.tv2fyn.dk/article/505020?autoplay=1&video_id=80815

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The learning journey

- Invest time & Coffee
- Respect incremental development in citizen time
- Search for co-creation and trust
- Spot including leadership
- Accept change in mission, vision and skills – adapt to it
- Say yes

"Føns is some of the most fun political work i have been a part of."

Agnete Damkjær, City Council & Chairman.





*My fellow friends, ask not what volunteers can do for you,
but what you can do for them*

Rephrasing J.F. Kennedy

*You cant always get what you want. But if you try sometime well
you might find you get what you need*

Mick Jagger

Thank you

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