COBEN
Making Civic Energy Work

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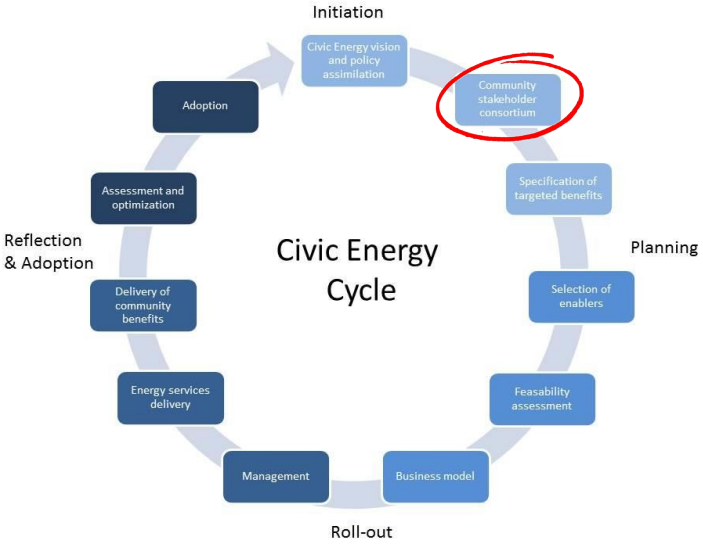
Energy Map Exhibition

Region: Ringkøbing-Skjern

In the pilot project, the aim is to give citizens and visitors insight, understanding and acceptance of fluctuating energy systems and the need for renewable energy. This is done through digitization of consumption data and renewable energy production data. Energy data is visualized and displayed in a specific visitor exhibition.



Current stage of pilot with respect to Civic Energy Cycle

- Community stakeholder consortium

Targeted benefits

- Visualize energy data and energy systems
- Create an energy exhibition for citizens and visitors
- Create a relationship between energy systems and people's own homes and energy consumption
- Communicate the message about energy systems and the need for renewable energy to many visitors.

Delivered benefits

- The many energy data are visualized, among other things, through a touch screen, where the user/visitor can see energy systems, wiring networks, wind turbines, transformer stations, etc.
- The partners have jointly created three visitor stations, which are visual and tactile. This means that knowledge is acquired and learning takes place with eyes and hands.
- In the exhibition, a model map has been built for the municipality with 16 holes, each representing a large wind and energy park. You can build a small wind turbine model and put it in one of the 16 holes, then a nice drone film of the current wind farm is shown.
  In the exhibition, in addition to boads with the municipality's climate action plan and a touch screen with the energy map, a wooden skeleton of a model home has also been built. The home has a built-in window that shows the different types of weather that affect energy production with wind turbines and solar cells. Also figures for washing machine, game consoles, heating radiator and electric cars are shown. They symbolize all washing machines in all homes together in the entire municipality. Depending on weather conditions and thus energy production, the various symbols light up red or green in relation to the current fluctuating renewable energy production.
- Up to 50,000 visitors in the exhibition and Naturkraft

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Stakeholders involved

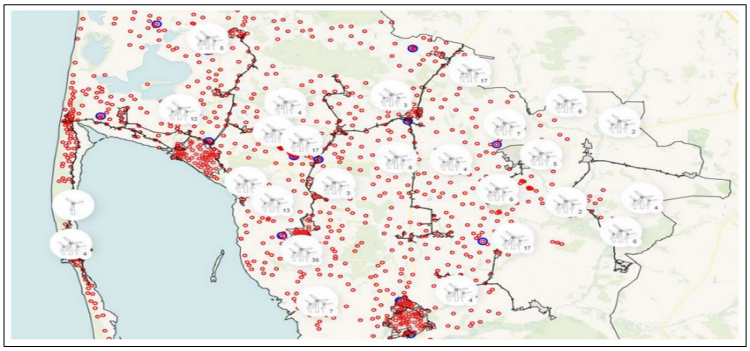
- Center Denmark and energy supplyt companies (Data and energy companies)
- Naturkraft (Experince park)
- No Parking (Interaktiv storytelling companie)

Capacities for improvement

- We need a lot more money and resources to integrate additional energy sectors into the energy map. The visualization must create an understanding of expansion with even more renewable energy.
- We also need research into the many energy data in order to streamline and link energy sectors. Right now the wind turbines are standing still, even though it is windy. Wind turbines are stopped because you cannot get rid of the electricity, e.g. down in Europe, and at the same time with energy crisis and high electricity prices. It is one of many big challenges.

Risks and barriers

- We also need research into the many energy data in order to streamline and link energy sectors. Right now the wind turbines are standing still, even though it is windy. Wind turbines are stopped because you cannot get rid of currents, e.g. down in Europe, and at the same time with energy shortages and high electricity prices. It is one of many big challenges.
- There is a risk for the green transition and that the development of renewable energy comes to a complete standstill, because citizens do not want to look at and accept the installation of more renewable energy plants.



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