

Copenhagen microgrid development

Location: Copenhagen, Denmark

Population: 633,021 [city area]

Duration: 2011 – 2040

Solutions: Sustainability integration into the entire construction of the area.

Multiple benefits: A future urban area with zero emissions.

Nordhavnen is Scandinavia's largest (200 hectare) sustainable urban area under construction. It is a harbour redevelopment that will consist of housing, shops, cultural institutions, sports facilities and state-of-the-art recreational areas.

Objective - To make Nordhavnen a model for future smart cities, featuring integrated solutions in transportation, renewable energy and data collection as a basis for a generation of new smart city services.

Funding - The budget for developing the areas of Aarhusgade and Sundmolen is EUR 60-65 Mln. The general Nordhavn project is a public driven project carried out by CPH City and Port Development in collaboration with the City of Copenhagen and a number of consultants. CPH City and Port Development is owned by City of Copenhagen (95%) and the Danish Government (5%).

Moreover, private companies are constructing their own buildings, for which the budget is unknown. EnergyLab Nordhavn has a budget on EUR 17 Mln and is supported by the Danish EUDP Programme.

Innovation - The setting-up of Energylab Nordhavn (april 2015) consists of the first urban laboratory of its kind in Denmark [source]. And with the EnergyLab centered in Nordhavnen, the area also has the potential to become an international hub for research into all aspects of intelligent energy systems. With both research and actual sustainable urban development being brought together in one place, the expectation is to make Nordhavnen a full-scale showroom for sustainability of various kinds.

Success factors - A very important aspect of the planning of Nordhavnen was to keep in touch with future users and inhabitants, the citizens of Copenhagen. This strong emphasis on integrating people's views and opinions from the project's outset will make Nordhavnen a more sustainable and liveable area.

The project is still in its implementation phase, always evolving in scale and depth, which means that the impact of the solution is difficult to measure. However, Nordhavnen project has the following expectations:



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