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Greisen, Christoffer

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EnergyLab Nordhavn, Integrated Energy Infrastructures and smart components

Christoffer Greisen*¹

1: DTU Elektro

*Corresponding author email: cgre@elektro.dtu.dk

EnergyLab Nordhavn is a large-scale integrated research and demonstration project that contributes to the grand challenge of transforming the energy system to efficiently integrate a large share of renewable energy.

The project focuses on a cost-effective future smart energy system that integrates multiple energy infrastructures (electricity, thermal, transportation) and provides an intelligent control of subsystems and components –

providing necessary flexibility for efficient utilisation of renewable energy. The demonstration takes place in Copenhagen's Nordhavn, one of the largest development districts in Europe.

The EnergyLab Nordhavn project will establish itself in Copenhagen's Nordhavn as a living laboratory for future smart-energy technologies, innovative business models and new operational solutions on all scales - component, building, grid infrastructure and system level - and provide basis for design and dimensioning of future energy infrastructure in sustainable low-energy city districts.

EnergyLab Nordhavn brings together for the first time at this scale stakeholders from different energy infrastructures with authorities, industries and knowledge institutions. The project interlinks development and research activities creating an environment for strong research-based innovations. The partners are DTU BYG, DTU MEK, DTU CEE, Københavns Kommune, DONG Energy Electricity Distributions, HOFOR, By&Havn, ABB, Danfoss, Balslev, MetroTherm, Glen Dimplex, CleanCharge and the PowerLab facilities.

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