Next Zero Energy Buildings at lowest Cost by using Competitive Sustainable Technology

Fact Sheet

Project Information

NEXT-BUILDINGS

Grant agreement ID: 284533

Start date 1 January 2012
End date 31 December 2017

Funded under FP7-ENERGY

Overall budget € 8 462 117.59

EU contribution € 4 963 808

Coordinated by KEMA NEDERLAND BV
Netherlands

Objective

This project is about the demonstration of very low energy buildings. In all demonstrations, the ambition is net zero carbon/energy or better (active or plus-energy house). The project paves the way for large scale implementation of energy neutral buildings/neighbourhoods as foreseen in the Energy Performance of Buildings directive and the pilots are running more than five years ahead of the goal of the EU, to have energy-neutral new build dwellings by the start of 2019. Common approach is: 1- Reduce demand, 2-Sustainable heat, 3- Local renewables for residual demand.

In Amsterdam, an old harbour area close to the city center will be developed as a climate neutral, water-rich neighbourhood. SPLA Lyon-Confluence consider setting very ambitious energy targets for their P-Plot building: this building should have a balanced energy consumption calculated in primary energy. The Grönkullan & Hålan area will be registered and evaluated on multiple parameters within 10 eco topics
area will be registered and evaluated on multiple parameters mainly on eco topics before, during design and in the evaluation. The houses will be built as passive houses and supplemented with renewable energy supply making the houses ACTIVE.

The three pilots have a total gross floor area of about 50000 m2. All set the standard for future developments.

Within all demonstrations there is a strong emphasis on demonstration of competitive techniques like waste water heat recovery. Demonstrations of ICT-based inhabitant energy feedback systems are included. Existing systems are improved and new ones are developed. A system for neighbourhood load control will be developed and demonstrated.

The project includes innovative building element development. Topics are building-integrated PV-panels, important for all the demonstration sites, and transmission controllable windows that have significant potential to reduce the building energy demand.

Monitoring, an extensive dissemination program and a special effort on mutual learning and experience exchange are part of the project.

Field of science

/social sciences/economics and business/economics/sustainable economy
/engineering and technology/environmental engineering/waste management/waste water
/engineering and technology/environmental engineering/energy and fuels/renewable energy

Programme(s)

Topic(s)

Call for proposal

FP7-2011-NMP-ENV-ENERGY-ICT-EeB

Funding Scheme

CP-SoU - CP-Scale of Unit

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<th>Organisation</th>
<th>Country</th>
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