

HOUSE+ (called BOLIG+ in Danish) is an interdisciplinary concept for attractive, healthy and energy neutral homes, developed by a number of organizations* in the Danish construction sector. The HOUSE+ initiative is expected to highlight the next generation of residential houses.

A HOUSE+ unit is:

- Energy neutral (on an annual basis) including electricity for domestic equipment and lighting (1700 kWh/yr/flat for domestic equipment). The building has to perform to minimum Danish Low Energy Class 1 - without using PV – min. 50% lower than the demand in the DK building regulations BR08 (approx. 40 kWh/m2/yr)
- Intelligent and user-friendly
- Flexible – in use and over time
- Good and healthy indoor climate
- Of good architectural quality and adaptable to local surroundings and context in terms of urban planning and energy infrastructure.

the house+ concept

The HOUSE+ process

The first HOUSE+ process has included team-formation workshops and team pre-qualification. 44 innovative teams expressed an interest in the pre-qualification to participate in the project competition. Five teams were selected.

Through spring 2009 these five highly skilled teams of architects, engineers and producers competed to design the first HOUSE+ multi-storey housing estate in an interdisciplinary design competition. The competition process has included special team workshops to ensure innovative use of well-known technology solutions.

The proposals were handed in by June 2009. The winner of the competition will be announced by October 2009, and the competition proposals will be exhibited at several locations across Denmark through autumn 2009.

The first HOUSE+ multi-storey housing estate (7000 m2 - 60 flats) will be constructed in Aalborg, Denmark by the Danish company A. Enggaard A/S during 2010-2012.

A comprehensive programme for measuring and evaluating the indoor climate and the energy consumption will be implemented in the flats. Measurements will be performed with measuring devices communicating

through an open and wireless standard, which means that installation of sensors and data collection will be very simple and affordable.

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* The Danish Electricity Saving Trust, Danish Building Research Institute, Danish Technological Institute, Architects' Association of Denmark, The Ecological Council and The Danish Society of Engineers.

