



## Solar PV scale smart battery systems

PRODUCTS, TECHNOLOGIES AND BUILDING SYSTEMS

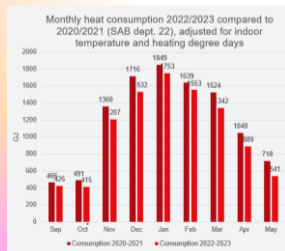
A technical solution to demonstrate and monitor the combination of solar PV panels and battery systems in large residential buildings and to develop design criteria for such combined systems. Further, the solution focuses on architectural aspects, economical aspects, and dialogues with authorities.



## Leanheat intelligent heating control system

SOFTWARE, TECHNOLOGIES AND BUILDING SYSTEMS

The Danfoss Leanheat Building is an AI based software and control applied as part of the smart control of the building level heating system. The installed system upgrades the traditional principle of a static preset relation between the heating system supply temperature and the ambient temperature. It includes an adaptive dynamic building model in combination with weather prediction and measured apartment indoor temperatures. The optimal heating supply temperature can be estimated at a given time without compromising the comfort.



## Involvement of tenants and citizens

METHODS, SUPPORT

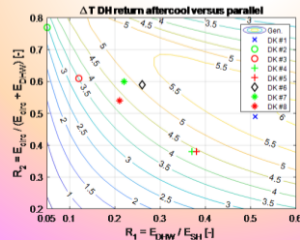
A method on how to engage tenants in energy efficiency improvements driven by a data-approach. The innovation explores how residents can be motivated to become more aware of their energy consumption and how they can be encouraged to act upon it with an energy savings result as the final outcome. Different tools can be tested and selected to communicate energy-saving behaviour to the residents and to find out when the residents are most motivated to carry out energy-saving behaviour.



## Heat pump system design

PRODUCTS, TECHNOLOGIES AND BUILDING SYSTEMS

The aftercooling concept is an innovative district heating substation for large multi-apartment buildings where the domestic hot water preparation and reheating of the circulation flows are decoupled and obtained in two separate heat exchangers connected in parallel. The primary return temperature flow from the circulation heat exchanger is further aftercooled by the space heating system before returning to the district heating network. The concept provides a reduced return temperature to the district heating network.



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