



City of Gothenburg

Energy requirements in new housing projects

The municipality has set energy and other environmental requirements that have to be achieved in housings on municipal land. The selected performance levels already meet coming demands of near zero energy buildings. The aim is to reduce energy use in buildings and reduce the carbon footprint of the energy used.

The requirements for construction of new housings include:

- New apartment blocks should meet the requirement of a specific use of energy (purchased energy) of maximum 60 kWh/sqm per year if heated by district heating and 45 kWh /sqm if electrical heating is used (national mandatory building regulations is 90 kWh/sqm)
- Installed power for heating must not exceed 15 W/sqm.
- New free standing buildings ie. villas (< 200 sqm) should meet the requirement of a specific use of energy of maximum 55 kWh /sqm per year if heated by district heating and 40 kWh /sqm if electrical heating is used.
- Installed power for heating must not exceed 17 W/sqm.
- The heating source should be primarily district heating, secondary biofuels and thirdly heat pump. - Electrical installations (everything from lighting to pumps and appliances) should be very energy efficient. Lighting should be controlled through demand.

Around 2000 dwellings are built every year in Gothenburg and about 60 per cent of these are built on municipal land and therefore have to meet the energy requirements. A revision of the energy requirements is ongoing in 2015. An updated version will be ready for a decision in the spring in 2016.

More information (in Swedish):

On webb page (possible to do Google translation into English on the web site):

<http://goteborg.se/wps/portal/invanare/bygga-o-bo/mark-och-exploatering/miljoanpassat-byggande>

Programme for Environmentally-adapted Construction:

http://goteborg.se/wps/wcm/connect/d449133b-3645-43d6-bc26-5508254945a5/2014_Miljoanpassat+byggande+2a+tryckn.pdf?MOD=AJPERES