


Sustainable neighbourhood - Vauban (Freiburg im Breisgau - DE)	
Keywords	One of the biggest European solar districts, "positive energy houses", pilot project of ecological sewage system
Main photos	
Objectives of the action	<p>The main objective of the project is to implement a city district in a co-operative and participatory way with special prerequisites such as:</p> <ul style="list-style-type: none"> • Ecological requirements (public transport, co-generation plant, heating system, RES, green areas) • Economic requirements (balance of working and living areas, district shopping centre) • Social and cultural requirements (neighbourhood centre for social interaction, cultural events)
Description of the action	<p>In the South of Freiburg (3 km from the city centre), on the former area of a French barrack site, the Vauban district has been developed on 38 ha of land in order to host more than 5,000 inhabitants and 600 jobs.</p> <p>The planning for the district started in 1993 and the implementation phase started in 1997. Right from the beginning all issues (mobility, energy, housing, social aspects etc.) were discussed in working groups which were open to residents. Raising public awareness was regarded as key component when planning an environment-oriented district as people have to be convinced that such action not only serves their interests from an ecological point of view but also helps to save money in the long term.</p> <p>Furthermore, change in people's belief system will bring about an acceptance of other policies (e.g. car-sharing, public transport) which are not directly related to the process of building a new house.</p>
Results / Achievements	<p>Energy:</p> <ul style="list-style-type: none"> • Consumption of 65 kWh/m²/year for new buildings • 92 passive houses (consumption of 15 kWh/m²/year) • 10 "positive energy houses" (producing more energy than they need) • District heating grid; co-generation plant (powered with wood chips: 80% and with gas: 20%) • One of the biggest EU solar districts: 2500m² of photovoltaic panels and 500m² of solar panels <p>Transport:</p> <ul style="list-style-type: none"> • Limited car use: private cars are parked in a community car park outside the residential area, cars being only allowed for delivery; speed limit of 30 km/h and 5 km/h • Shops and services in walking or cycling distance • Two bus lines and a tramway connecting Vauban with the city centre, the main railway station and the "Hexental" recreation area <p>Water:</p> <ul style="list-style-type: none"> • Rainwater infiltration covering 80% of the ground • New ecological sewage system within one pilot project: transport of faeces through vacuum pipes to produce biogas for cooking (together with organic household waste) purification of the remaining waste water (grey-water) in bio film plants <p>Social:</p> <ul style="list-style-type: none"> • Forum Vauban and its standards of communication, interaction and integration for citizens • Social work as part of the developing process • Groups of building owners and the Genova housing association causing a balanced community life
Friendly advice for replication	<p>The feature of cooperative local planning is an outstanding characteristic of the Vauban case that can be transferred to other cities. Issues of awareness raising and integration of residents' individual interests have been put into practice in an exemplary manner. It is important to achieve a high level of motivation among residents, local politicians and persons in charge of implementation.</p>
Online information	<p>www.vauban.de, www.passivhaus-vauban.de, www.forum-vauban.de, www.freiburg.de</p>
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