

Quartier Vauban

Freiburg, Germany



Size: 94 acres, 5,000 residents

Dates: 1993 – 2006

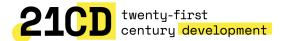
Project Team:

Forum Vauban, the City of Freiburg, Common & Gies Architects

Quartier Vauban is an energy-efficient residential community with some services onsite. All buildings must achieve a minimum energy standard. 100 units are built to passive house standards or plusenergy standards (producing more energy than they consume.

Goals & Strategies

🕂 Place	
Limits to Growth	Goals: Goals not defined. Strategies: Strategies not reported.
Food	Goals: Cooking with biogas instead of natural gas. Strategies: Access to farmers markets in the area.
Habitat	Goals: Goals not defined. Strategies: Preserve existing trees. Landscaping practices avoid using herbicides and fertilizer. Reed bed water filtration garden.
Transportation	Goals: 40% of residents live without owning a vehicle. Strategies: Transit oriented development. Car sharing system. Bicycle infrastructure. Walking paths. Proximity to public transportation.
🖉 Water	
Water	Goals: Goals not defined. Strategies: Rainwater capture and storage. Greywater purified and used in houses. Water infiltration into the ground. Blackwater separated by vacuum toilets connected to biogas plant.

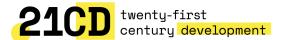


4 Energy	
Energy	Goals: All buildings to achieve 65 KWh/m ² heating energy. Reduce CO ₂ emissions by 60%. Strategies: 100 units built to passive house standard or plus-energy standard. Solar hot water, solar PV. Cogeneration plant operates with 80% woodchips and 20% natural gas. District heating. Biogas plant.
ひ Health + Happi	NESS (Details not provided by researchers)
Material Plan	Goals: Goals not defined. Strategies: Strategies not reported.
Embodied Energy & Carbon	Goals: Goals not defined. Strategies: Thermal bridge-free construction. Renovation of existing buildings. Prefabricated elements. Triple-pane windows. Designed for adaptability over time. Preference for recycled materials.
Waste	Goals: Goals not defined. Strategies: Strategies not reported.
Equity	
Neighborhood & Access	Goals: Goals not defined. Strategies: Public access to streets. Human-scale design. Community house, playgrounds. Community engagement in planning and operation.
Access to Nature	Goals: Goals not defined. Strategies: Strategies not reported.
Access to Community Services	Goals: Goals not defined. Strategies: Strategies not reported.
Investment	Goals: Goals not defined. Strategies: Strategies not reported.

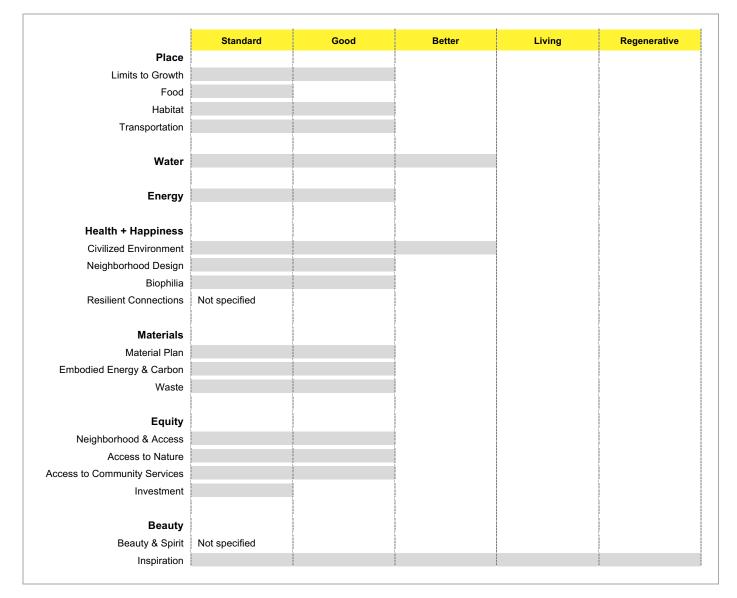
Beauty

(Details not provided by researchers)

> See next page for Performance Levels achieved



Performance Levels Achieved:



Sources:

http://www.passivhaus-vauban.de/idee.en.html

*Note: This case study was developed using found information.

21st Century Development is a model for the creation of regenerative communities that strives to provide a healthy environment for all people and living systems now and in a dynamic future.

The initiative is created and supported by a partnership of AIA Minnesota, the Center for Sustainable Building Research, Colloqate Design and The McKnight Foundation.





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