EcoQuartier

Pfaffenhofen, Germany

Photo by BDZ-bau

Size:
21.5 acres

Dates:
2010 – 2050 ongoing development

Project Team:
Ministry VROM

EcoQuartier is a planned residential community with a separate commercia district. The walkable development utilizes energy-efficient construction and wetlands for stormwater management. It is intended to use 100% renewable energy, be carbon-neutral, and be a walkable community with schools, stores, and other services.

Goals & Strategies

Place	
Food	**Goals:** Goals not defined. **Strategies:** EcoQuartier is located in an agrarian area with access to local produce, gardening.
Habitat	**Goals:** Goals not defined. **Strategies:** Open-space design for landscaping, tree planting. Constructed wetlands. Retention basins for flood prevention. Gardening is allowed.
Transportation	**Goals:** Goals not defined. **Strategies:** Car sharing, public transportation access. Electric vehicles, bicycles. Limited parking spaces. Train station within 0.5 miles. Limited vehicle access.
Water	
Water	**Goals:** Goals not defined. **Strategies:** Two water circuits for potable and hot water. Greywater filtered through constructed wetlands.

Energy	
Energy	**Goals:** Carbon-neutral by 2050. 100% renewable energy. **Strategies:** Solar PV on rooftops required to maximize roof utilization. PV in field to cover demand. District solar thermal heating, energy efficiency.
Health + Happiness (Details not provided by researchers)	
Materials	
Material Plan	**Goals:** Goals not defined. **Strategies:** Cradle-to-cradle philosophy for material selection. Carbon footprint calculations and LCAs conducted on material selection. Nontoxic materials. Materials selection that reduces CO_2.
Waste	**Goals:** Goals not defined. **Strategies:** Recycling infrastructure. Education n recycling.
Equity	
Neighborhood & Access	**Goals:** Goals not defined. **Strategies:** Different architectural styles. Plots can be purchased within the village for a new house to be built within the requirements.
Access to Nature	**Goals:** Goals not defined. **Strategies:** Biophilic design and landscaping.
Access to Community Services	**Goals:** Goals not defined. **Strategies:** Walking paths, community buildings, and services. Community services and schools within a 2-mile radius of the community.
Beauty	**(Details not provided by researchers)**

> See next page for Performance Levels achieved

Performance Levels Achieved:

	Standard	Good	Better	Living	Regenerative
Place					
Limits to Growth					
Food					
Habitat					
Transportation					
Water					
Energy					
Health + Happiness					
Civilized Environment					
Neighborhood Design	Not specified				
Biophilia	Not specified				
Resilient Connections					
Materials					
Material Plan					
Embodied Energy & Carbon					
Waste					
Equity					
Neighborhood & Access					
Access to Nature					
Access to Community Services					
Investment					
Beauty					
Beauty & Spirit	Not specified				
Inspiration					

Sources:

**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.

AIA Minnesota · CSBR Center for Sustainable Building Research · COLLOQATE · McKnight Foundation