

NEW JENFELD | Hamburg, Germany



Size: 72 acres, 800 units

Dates: 2005-present

Team: Architecture: West 8

Description: New Jenfeld is a neighborhood development constructed on a historic military base. The neighborhood will contain multiple housing types and live-work conditions connected by landscaped public spaces

Intent: Create an attractive affordable neighborhood with an emphasis on sustainable living

S

Sit+Place

GOALS: (Food) Not defined ; (Habitat+Biodiversity) Not defined ; (Transport) Not defined

STRATEGIES: (Food) Not reported ; (Habitat+Biodiversity) Landscaping was the focus of the master plan, extensive gardens that incorporate rainwater drainage system, trees planted sequester carbon ; (Transport) Landscaping was the focus of the master plan, extensive gardens that incorporate rainwater drainage system, trees planted sequester carbon

W

Water

GOALS: 100% storm water capture

STRATEGIES: Storm water capture through trenches and landscaped ponds, separation of water types, black water is used for biomass energy production, greywater filtered through landscaping

E

Energy

GOALS: 50% of electricity produced on site, 100% district heating

STRATEGIES: Solar PV, high energy standards, compact design, solar PV, solar thermal, geothermal, bio-gas, cogeneration plant, metering

E

Equity

Percentage of affordable units: Not defined

GOALS: 80% residential, 20% commercial

STRATEGIES: Public access to streets, walkable neighborhoods, public parks, mix of affordable units, proximity to services, newsletter and resident education, water system used as an educational opportunity for children, resident participation in decision making

M

Materials

GOALS: (Materials) Low carbon construction ; (Waste) Not defined

STRATEGIES: (Materials) Strict energy standards for construction ; (Waste) Waste to energy, vacuum toilets, organized waste collection facilities, blackwater used for energy production

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Limits to growth			Built on greyfield of brown-field, developed for density, conserves habitat land		
	Urban Ag	No garden space required				
	Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
W Water	Human Powered Living		Promotes walkable streets, bicycle infrastructure, access to some services			
	Net Positive Water			Greywater purification & reuse, on-site treatment of some blackwater, constructed wetlands, stormwater prevention (green-roofs & impermeable surfaces)		
	Net Positive Energy		2030 standards goal of efficiency, some reduction goals for energy & carbon, some renewable energy, solar PV ready			
E Energy	Civilized Environment			Community has some organization and collaborates on 1-2 of the living community listed programs		
	Healthy Neighborhood Design			Access to walking and bike trails connecting amenities, parks, recreation areas		
	Biophilic Environment			Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, community gardening		
	Resilient Community Connections	Nothing considered/ not reported				
H Health+ Happiness	Living Material Plan		Some material selection standards, passive house standards used			
	Embodied Carbon Footprint	No embodied carbon measuring or offsetting greater than code				
	Net Positive Waste	Standard construction, material selection, & waste collection				
	Human Scale and Humane Places			Project is designed to create human-scaled places, promotes culture & interaction		
M Materials	Universal Access to Nature and Place			Access to parks, innovative landscaping, promotes sense of place, community agriculture, daylighting in buildings		
	Universal Access to Community Services			Diversity of services available in community easily accessible by different modes of transportation,		
	Equitable Investment	No contribution to charity				
E Equity	Beauty and Spirit					
	Inspiration and Education			Unit metering, education on sustainable practices, opportunities for community engagement		
B Beauty						

SOURCES:

http://www.west8.nl/projects/jenfelder_au_formerly_known_as_new_jenfeld/
<http://www.e-architect.co.uk/hamburg/neues-wohnen-hamburg-jenfeld>
<http://www.iba-hamburg.de/en/projects/quarter-jenfelder-au/projekt/jenfelder-au.html>
<http://www.hamburgwatercycle.de/the-buildings-and-houses-of-the-jenfelder-au.html>



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