

ZAC DANUBE | Strasbourg, France



Size: 17 acres, 700 units, commercial space

Dates: 2007-planning, construction 2013-2017

Team: Urban Community of Strasbourg, Department of Urban Planning, Viecher Architects

Description: ZAC Danube is a brownfield reclamation and renovation of industrial site. It will become a sustainable neighborhood district

Intent: Embrace environmental responsibility and the city, be an example for future development

S
Sit+Place

GOALS: (Food) Not defined ; (Habitat+Biodiversity) 30% (2 acres) of open space ; (Transport) Not defined
 STRATEGIES: (Food) Not reported ; (Habitat+Biodiversity) Some green roofs, park space, landscape species selected for biodiversity ; (Transport) Limited vehicle access, 0.5 parking spaces per unit, pedestrian paths, bicycle infrastructure, car-share and carpooling programs, proximity to tram line

W
Water

GOALS: Not defined
 STRATEGIES: Re-use of greywater and rainwater for non-potable uses

E
Energy

GOALS: 65% of energy demands met by efficiency measures
 Energy Demand: 40 KWh/m²
 STRATEGIES: Solar PV, solar thermal heating, co-generation, bio-gas for heating, passive house principles, pre-design studies, positive energy houses

E
Equity

Percentage of affordable units: Not defined
 GOALS: 50% rental units, student units, owner-occupied units, 35 assisted housing units
 STRATEGIES: Master planning of the ecodistrict, unique architecture from different firms, walkable, park space, riverfront access, cultural centers, resident governance over district

M
Materials

GOALS: (Materials) Not defined ; (Waste) Not defined
 STRATEGIES: (Materials) Not reported ; (Waste) Remediation of sites soil, separation of waste, composting, waste to energy

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	May contain parks, landscaping, little emphasis on storm water management				
W Water	Human Powered Living				Pedestrian oriented community, public transit linkage to services, public bike infrastructure	
	Net Positive Water		Some stormwater reuse or infiltration, grey water recycling, conservation goals			
	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 groups to promote social connections			
	Healthy Neighborhood Design			Access to walking and bike trails that connect to amenities, parks, recreation areas		
	Biophilic Environment		Development includes park and has some landscaping			
H Health+Happiness	Resilient Community Connections	Standard construction and material selection				
	Living Material Plan	No embodied carbon measuring or offsetting greater than code				
	Embodied Carbon Footprint	No embodied carbon measuring or offsetting greater than code				
M Materials	Net Positive Waste	Standard construction & material selection & waste collection				
	Human Scale and Humane Places			Project is designed to create human-scaled places, promotes culture and interaction		
	Universal Access to Nature and Place			Access to parks, innovative landscaping, promotes sense of place, community agriculture, daylighting in buildings		
E Equity	Universal Access to Community Services				Places to shop, congregate, work, learn within 1/2 mile directly, or 1/4 to public transportation within 2 miles	
	Equitable Investment	No contribution to charity				
B Beauty	Beauty and Spirit					
	Inspiration and Education		Some education on the developments attributes, some opportunities for community events			

SOURCES:

- http://energy-cities.eu/IMG/pdf/Microsoft_Word_-_sustainable_neighbourhood_-_Danube__Strasbourg_-_FR__en-doc.pdf
- <http://www.buildup.eu/cases/9007>
- <http://www.lesarchitectes.com/wp-content/uploads/134.pdf>
- <http://biecher.com/en/portfolio/danube-3/>
- <http://www.sers.eu/content/zac-danube-strasbourg>
- <http://www.strasbourg.eu/developpement-rayonnement/urbanisme-logement-amenagement/projets-urbains/deux-rives/eco-quartier-danube>
- <http://www.en.strasbourg.eu/en/great-projects/deux-rives/malraux-danube-a-new-culture-and-activity-centre/>



THE MCKNIGHT FOUNDATION



AIA Minnesota