

ALVASTEADEN "RIVER CITY" | Gothenburg, Sweden



Size: 250 acres, 500,000 residents 25,000 apartments

Dates: 2009-2021

Team: Project Manager, Bo Aronsson

Description: Alvstaden is an urban redevelopment vision for the city of Gothenburg. The plan will unite seven city districts and create a sustainable lifestyle.

Intent: Connect the city communities, create a vibrant city center, promote an easy way to live sustainably.

S
Sit+Place

GOALS: (Food) Diversity in food sources ; (Transport) Minimize traffic, promote walkable development

STRATEGIES: (Food) Compost from city composted for local agriculture; (Habitat+Biodiversity) Create a network of parks and green spaces repair river ecology, green roofs, rainwater collection, storm water ponds, retention ponds; (Transport) Provide diverse transportation options, bicycle infrastructure, park and ride, public transit connection including bus, railways and ships, boulevards instead of freeways, railways are tunneled

W
Water

GOALS: Integrate water management into the urban space.

STRATEGIES: Rainwater capture, rainwater storage, stormwater management through green roofs and constructed wetlands.

E
Energy

GOALS: Test and promote innovative strategies and renewable energy technologies, reduce GHG emissions by 40% by 2020.

STRATEGIES: Smart grid technology, integrated solar PV, wind turbines, district heating, district heating can also be used for ice-free bike paths.

E
Equity

Percentage of affordable units: % not reported, affordable units planned in housing mix.
GOALS: Link together formerly isolated communities with a variety of public spaces for all ages, ensure everyone has access to riverbanks.

STRATEGIES: Community involvement in planning, parks, public meeting spaces, public art, walkable community, pedestrian bridges, waterfront promenades, marinas, easy access to services.

M
Materials

GOALS: (Waste) Reduce waste.

STRATEGIES: (Materials) Life cycle assessment of the development, the development is using a competition for architects to innovate while using sustainable materials. ; (Waste) Composting services, recycling.

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		Landscaping includes parks, landscaping, some 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 connecting amenities, parks, recreation areas		
	Biophilic Environment			Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, community gardening		
H Health+Happiness	Resilient Community Connections	Nothing considered/ not reported				
	Living Material Plan		Some material selection standards, passive house standards used			
	Embodied Carbon Footprint		Some proxy standards for reducing CO2 in material selection and construction			
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 & interaction		
	Universal Access to Nature and Place		Access to parks, promotes sense of place, some daylighting strategies for buildings			
E Equity	Universal Access to Community Services				Diversity of services available in community easily accessible by different modes of transportation,	
	Equitable Investment	No contribution to charity				
B Beauty	Beauty and Spirit					
	Inspiration and Education			Unit metering, education on sustainable practices, opportunities for community engagement,		

SOURCES:

http://alvstaden.goteborg.se/wp-content/uploads/2012/12/rivercity_vision_eng_web.pdf
<http://alvstaden.goteborg.se/?lang=en>



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