

## EKOSTADEN AUGUSTENBORG | Malmö, Sweden



Size: 3000 residents

Dates: 1998

Team: Housing Company MKB

Description: Neighborhood renovation and industrial district renovation, innovative storm water management, innovative green roof technology.

Intent: Involve residents and the public as much as possible in planning.

S

Sit+Place

GOALS: (Food) Not defined ; (Habitat+Biodiversity) Explore the potential of green roof technology, increase biodiversity by 50% ; (Transport) Re-design neighborhood street system to reduce through-traffic and increase pedestrian safety

STRATEGIES: (Food) Edible roof garden, urban garden plots ; (Habitat+Biodiversity) Innovative green roofs that test techniques, species and water retention ecosystems, landscaping to capture and reduce storm water run-off, plant selection to increase biodiversity, education of residents and public through innovation exhibitions and garden tours ; (Transport) Light-rail train connection, carpooling, electric vehicles, biogas vehicles, local car-share

W

Water

GOALS: 70% of stormwater captured on site

STRATEGIES: Rainwater capture and filtration through storm water ponds and canals, 70% of water is retained

E

Energy

GOALS: 20% improvement on efficiency compared to 1995 levels

STRATEGIES: Retrofit existing buildings, strict energy efficiency standards, innovative metering strategies and CO2 estimation for research on improvements, connected to solar thermal and solar PV plant

E

Equity

Percentage of affordable units: Not defined  
GOALS: Not defined

STRATEGIES: Residents participate in planning, pedestrian friendly, community school, parks, sports fields, diversity of residential options including apartments, single family houses and 100 apartments for senior citizens, access to services

M

Materials

GOALS: (Materials) Use sustainable materials for new construction ; (Waste) Recycle 90% of ongoing waste

STRATEGIES: (Materials) Renovate existing buildings ; (Waste) Composting, 13 recycling facilities throughout the neighborhood, pilot waste-to-biogas plant, hazardous waste collection

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
<b>S</b> Site+Place	Limits to growth			Built on greyfield of brown-field, developed for density, conserves habitat land		
	Urban Ag			Every resident to have access to community garden, greenhouse, local farm education		
	Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
	Human Powered Living			Walkable streets, bicycle infrastructure, public transit links, car sharing, EV charging stations, easy access to services		
<b>W</b> Water	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 and carbon, some renewable energy, solar PV ready			
<b>E</b> 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		
	Resilient Community Connections	Nothing considered/ not reported				
<b>H</b> Health+ Happiness	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			
	Net Positive Waste		Material selection for recycled/recyclable materials, waste collection facilities, reduction standards			
	Human Scale and Humane Places			Project is designed to create human-scaled places, promotes culture & interaction		
<b>M</b> 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		Some services & community centers in development accessible by bike or walking			
	Equitable Investment	No contribution to charity				
<b>E</b> Equity	Beauty and Spirit					
	Inspiration and Education		Some education on the developments attributes, some opportunities for community events			
<b>B</b> Beauty						

SOURCES:

<https://www.bshf.org/world-habitat-awards/winners-and-finalists/ekostaden-augustenberg/>  
<http://malmo.se/download/18.af27481124e354c8f1800015944/Augustenberg>  
<http://malmo.se/English/Sustainable-City-Development-2016/Sustainable-City-Development/Augustenberg-Eco-City.html>  
<http://waterbydesign.com.au/ekostaden-augustenberg-ecocity-augustenberg/>  
<http://malmo.se/English/Technical-visits/Theme-Sustainable-City/Sustainable-Urban-Development/-Ekostaden-Augustenberg-Eco-City.html>  
[www.greenroof.se](http://www.greenroof.se)



THE MCKNIGHT FOUNDATION



AIA  
Minnesota