

Bo01

Malmö, Sweden



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Size:

22 acres, 1,000 – 1,500 units, 43 people per acre

Dates:



2006 - 2010






Project Team:

The Municipality of Malmö, SVEBO, Kim Utzon, Architect, and MKB Fastighets AB, Developer

Bo01 is a mixed used development that aspires to demonstrate modern ecological urban living, brownfield reclamation, and new construction services (residential, commercial). It is designed to use 100% local renewable energy and minimize vehicle transportation miles.

Goals & Strategies

 Place	
Food	<p>Goals: Goals not defined.</p> <p>Strategies: Garden plots for residents, proximity to city sources.</p>
Habitat	<p>Goals: 50% open space.</p> <p>Strategies: Green space factor: 0.55, or 53%, not including green roofs. Biotope area factor: 0.5 to ensure a minimum of green associated with each building. Compensation habitat for birds. Habitats and new parks. Area ecologist. Green points initiative to encourage biodiversity.</p>
Transportation	<p>Goals: Limited parking (0.7 spots per household). Parking ramp recently installed to meet demand for parking. Rental electric vehicles removed due to lack of use.</p> <p>Strategies: Center of development is a car-free zone. Bicycle infrastructure, carpooling, access to public transportation. Central train station 1.5 miles.</p>
 Water	
Water	<p>Goals: Efficient water consumption. Management of stormwater.</p> <p>Strategies: Stormwater is used and filtered in canals. Bioswales. Courtyard ponds, green roofs. Greywater is treated through the city system. Efficient appliances.</p>

 Energy	
Energy	<p>Goals: 100% local renewable energy. 40% reduction of Swedish average. Energy demand 36 – 45 kBtu/ft².</p> <p>Strategies: 2 MW wind turbine. 15,000 f² solar array. Geothermal. District heating. Heat from sea water. Biogas. Integrated energy grid. Individual metering, renewable energy. Strict efficiency standards and monitoring. Emphasis on public transportation and bicycle infrastructure.</p>
 Health + Happiness (Details not provided by researchers)	
 Materials	
Material Plan	<p>Goals: Materials listed on the Swedish Chemicals Inspectorates list of hazardous materials are banned. Materials selected for durability and reuse.</p> <p>Strategies: Strategies not reported.</p>
Waste	<p>Goals: Goals not defined.</p> <p>Strategies: Waste separation units near homes. Composting, recycling, reuse. Certain facilities have a vacuum collection and sorting system. Organic waste transformed into biogas for heat and energy.</p>
 Equity	
Neighborhood & Access	<p>Goals: Phase 2 70% affordable housing. 85% apartments, 15% townhomes.</p> <p>Strategies: A variety of architecture designed by different architects. Human-scale design. Access to greater community.</p>
Access to Nature	<p>Goals: Goals not defined.</p> <p>Strategies: Waterfront boardwalk access.</p>
Access to Community Services	<p>Goals: Goals not defined.</p> <p>Strategies: Many public spaces. Aesthetic rainwater drainage system. Access to community centers and services. Education on sustainable living. Case study.</p>
 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					
Biophilia					
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:

- <https://malmo.se/download/18.7101b483110ca54a562800010420/westernharbour06.pdf>
- <https://www.urbangreenbluegrids.com/projects/bo01-city-of-tomorrow-malmo-sweden/>
- http://www.collegepublishing.us/jgb/samples/JGB_V8N3_a02_Austin.pdf

**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.

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