**Bo01**

**PLANNING PRECEDENT**

**Location**  
Western harbor, Malmö, Sweden

**Population**  
2,343 residents

**Client**  
City of Malmö

**Urban Designers**  
Renzo Piano, Christoph Kohlbecker

**Design Period**  
1998 - 2001

**Overview**  
Bo01 is a mixed-use development in the docklands of Malmö, Sweden. It became the subject of an international housing exhibition intended to showcase sustainable planning and building technologies while providing socially supportive spaces in an environmentally conscientious manner.

The plan of the long thin waterfront site is based on a modified, irregular grid, broken up by small parks, plazas, water-retention ponds, and gardens. Larger buildings form the perimeter edge and shield the interior from the windy conditions that prevail here. Smaller buildings bring a refined, human scale to the interior.

**100% Renewable Energy**  
Energy is produced via photovoltaic solar panels on homes and a wind turbine on the north end of the harbor area. A heat pump that extracts heat from a natural underground reservoir delivers heating to most of the homes in the district.

**Stormwater Management**  
Rainwater is diverted with above ground gutters with waterfalls and ponds along the way to buffer and purify the water. Green roofs also help to reduce the amount of water runoff when it rains.

**Solid Waste Management**  
Organic waste is collected in homes and then pumped to an anaerobic digestion chamber where it is treated with bacteria to produce methane. The methane is then used to power public buses or produce heat and electricity. Non-organic waste is sent via vacuum tubes to a central facility where it is burned or recycled.

**Sustainable Transportation**  
Bo01 is located little more than a mile from central Malmö; the University of Malmö is barely a mile. Given this proximity and an extensive walking and bike path system, Bo01 residents own fewer cars, drive less, and walk and bike more than the average Malmö resident. In addition, all Bo01 residents are within 1,500 feet of a bus stop with buses operating frequently.

**Green Points**  
Bo01 is home to its own ecosystem of plant and animal life thanks to the developers including at least 10 of the 25 “green point” options as defined by Malmö’s Green Point rating system. These consist of things like green roofs, nesting shelves in facades, and gardens in the courtyard.