

Name of project:	Western Harbour Malmö	COUNTRY SWEDEN
City of project:	Malmö	
Size/ region affected	District of Western Harbour, BO 01	
Type of project [theoretical / practical]:	Practical	
Targeted technique PV/Solar thermal/Solar Passive/Solar Air conditioning	PV, Solar thermal collectors, underground thermal mass storage facilities and wind turbine. Energy efficient buildings. 100 % locally produced renewable energy.	
Period/ starting date	2001 - ongoing.	
Contact institution with Internet links (if available)	Contact person: Tor Fossum, Environmental Department, tor.fossum@malmo.se Website of the project: http://www.malmo.se/Funktionsmenyer/In-english/Sustainable-City-Development/Bo01---Western-Harbour.html	
Photo / drawings / overview	<p>Malmö</p>  <p>Foto: Malmö stad</p>	

<p>General Project Description</p>	<p>The whole Western Harbour district was gradually built up out of filling material, starting already in the late 1700's. For many years it belonged to the ship yard of Kockums. When the ship yard activities decreased, the production hall was rebuilt to a SAAB factory. The factory was not used for long, however, before it was converted into the Malmö Fair.</p> <p>The closure of the Kockums shipyard presented lead to a transformation and creation of a new district in the city. In the year 2001 the Housing Fair BO 01 was held in the Western Harbour. This became the start of the development of a new district with housing by the sea. Many different architects were involved and created a great diversity of the architecture.</p> <p>The creation of the district of Western Harbour is based on a fundamental ecological approach to planning, building and construction. The aim is for the district to be an internationally leading example of environmental adaptation of a densely built urban environment. The area is supplied by 100% renewable energy – wind, solar and geothermal energy. Houses have a total energy demand of maximum 105 kWh/m².</p> <p>The Western Harbour has in a couple of decades trans-formed itself from being an industrial park into becoming an area for knowledge and sustainable living. Since the closing of Kockums machine halls and cranes have been making way for parks, swimming areas, schools, and living accommodations</p>
<p>Initiator/project idea</p>	<p>City of Malmö</p>
<p>Financing Investor</p>	<p>Self financing + EU-project</p>
<p>Service Provider</p>	<p>City of Malmö / E.ON</p>
<p>Other parties involved (eg. departments)</p>	<p>Lund University</p> <p>These companies are currently involved in the work on the Västra Hamnen district:</p> <p>Celsius HSB JM AB Malmö högskola Midroc</p>

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SWOT Analysis	
Strengths	<ul style="list-style-type: none"> ▪ Malmö city had a strong planning role in the process of developing the area
Weakness	<ul style="list-style-type: none"> ▪ Design of the buildings turned out to be more important than energy performance from solar collectors which gave for the majority of the buildings a low tilt of the roof and not south oriented. ▪ Energy supply incl. solar was separated from planning of the area and buildings although the overall target was to have the area supplied with 100% renewable energy produced within the area.
Opportunities	<ul style="list-style-type: none"> ▪ The whole area was planned for renewable within the area and other environmental aspects were included. ▪ The experiences from this project is used in many new projects in Malmö and the area serves as inspiration for many other cities
Threats	<ul style="list-style-type: none"> ▪ The extreme tight time schedule (due to the link with the housing fair Bo01) made in some cases a decrease in quality in construction of the buildings. The project was also bankrupted in the end. ▪ No measures was taken for buildings not fulfilling energy demand
Improvements	<ul style="list-style-type: none"> ▪ Improved control of quality, more time for construction of buildings, measures to take for not fulfilled demands e.g. regarding energy use, better design of buildings adapted to solar energy, improved planning for areas using solar energy, use the experiences to new projects.