

Urban Food from Residual Heat

Site description one – Malmö Harbour Area



OPEN

Innovation Competition

Urban Food from Residual Heat
- DEADLINE JUNE 2, 2017

Malmö Harbour Area – the Perfect Spot for Urban Symbiosis

The Malmö harbour area is a huge area under development which contains two distinct parts – the northern part which includes the port and industrial harbour, and the southern part, known as Nyhamnen, which is planned to be both a residential and commercial (offices) area. The proposed site of the urban food production unit is located in the transition zone between these two areas.

The port and industrial harbour

The City of Malmö has the ambition to develop the harbour area into a front runner within the development of sustainable industry and port businesses and as an attractive spot for modern clean tech businesses. The Malmö harbour is – besides traditional port business – also the heart of the city's energy production and waste handling. It now functions as a base for a wide variety of industrial operations which in total add up to about 85 different businesses. Three large heat production units are responsible for contributing circa 90% of the heat demanded by the district heating networks of Malmö and Burlöv. A large industrial operation in the port also directs its residual heat into the district heating network. Sjölanda waste water treatment plant is the largest plant in Southwest Scania and treats daily huge amounts of lukewarm waste water.

“In Malmö's Port Area We Share – enhanced competitiveness through industrial symbiosis” is Malmö's vision for industrial symbiosis. The vision will be implemented with the help of the newly established Symbiosis Function that will market Malmö as the site for Urban Symbiosis.

Nyhamnen – a close, dense, green and multi-functional city district

Our new city district Nyhamnen will contribute to strengthen Malmö's attractiveness for both businesses and inhabitants in the region and furthermore, it will contribute to Malmö's objectives to become a socially, economically and environmentally sustainable city. Nyhamnen will enhance the city's coastal city image and we will provide an easily accessible place for people from the city's different “corners” to meet up. The evolution of Nyhamnen represents an important step in the enhancement and overall development of the city centre and its connection to the Central Station, the ocean, the port and old industrial buildings is important. When Nyhamnen is fully developed it will include approximately 6000 new households, first class public transport and a varied business environment for around 13 000 employees.

Wanted: Facility for urban biological production

In the harbour area, a wide range of challenges and interesting opportunities are arising; on one side an industrial area with a vision of sustainable development and on the other, a new emerging city district ... both of which will border and interact with each other.

The overall development's proximity to the harbour and ocean means that the land is valuable, adding both possibilities and challenges. To push development in the area and take care of existing resources, we now seek a new and creative solution that can either be part of the new city district of Nyhamnen, in the industrial part of the harbour area or in the "land in between".

The area is at the start of a long and intensive phase in its development in which the opportunities to embrace integration possibilities between the city, the harbour and its industry will certainly be explored. The industrial area and the city are sure to meet and this is sure to create unique yet challenging opportunities to connect the city's operations with the residual heat flows or other residual flows available already today from the harbour area.

The City of Malmö is in ongoing discussions about creating an innovation centre in which innovative entrepreneurs will be able to take their ideas from a concept to product or service. We see the facility in this competition will be a part of a future innovation centre.

The unique location demands something extraordinary in order to succeed!

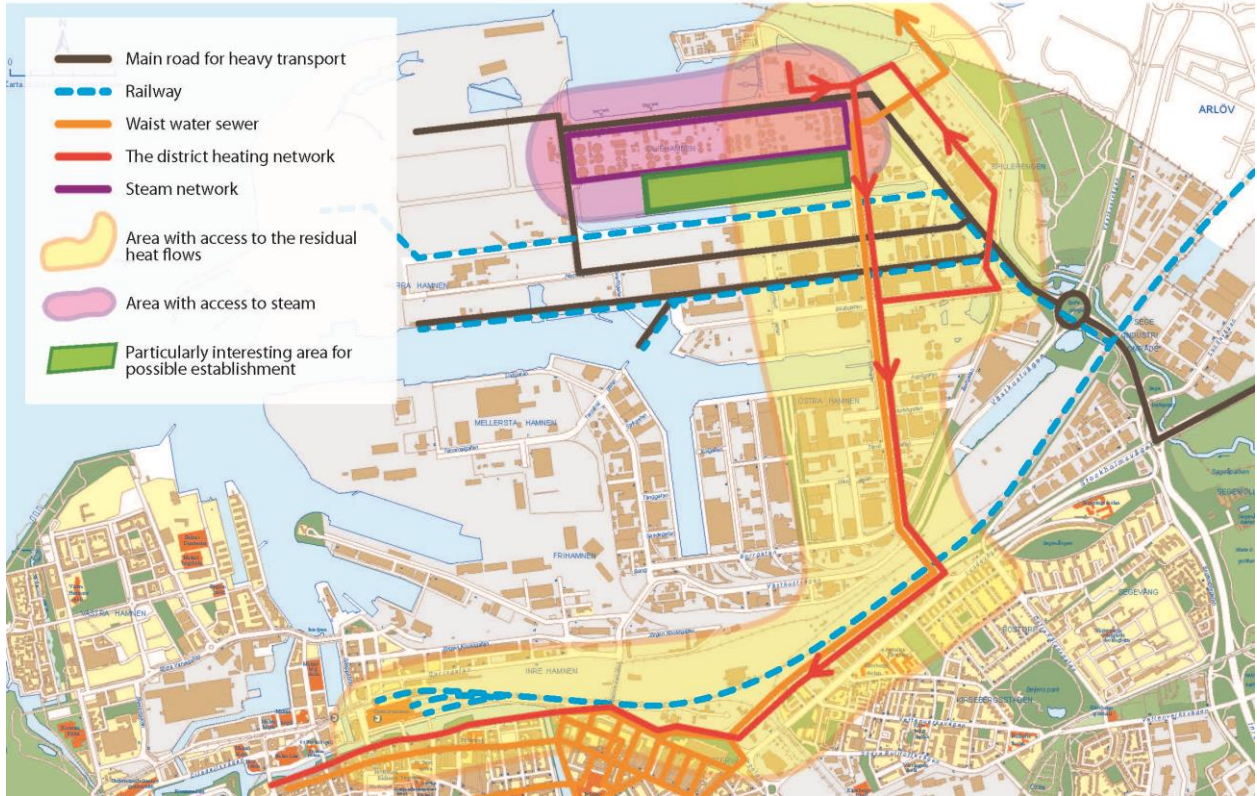
We encourage the entered suggestions to take a holistic approach and present a city function that is both attractive and includes all three sustainability dimensions. We expect that the winning suggestion will be mature for business, an actual investment, or at such a level in development that it can be part of an incubator process. We are in particular looking for – and will reward – creative solutions that are suitable for small areas, offer multiple functions and are able to process local produce.

For more information on the Nyhamnen development please see the link below (in Swedish):

<http://malmo.se/fopnyhamnen>

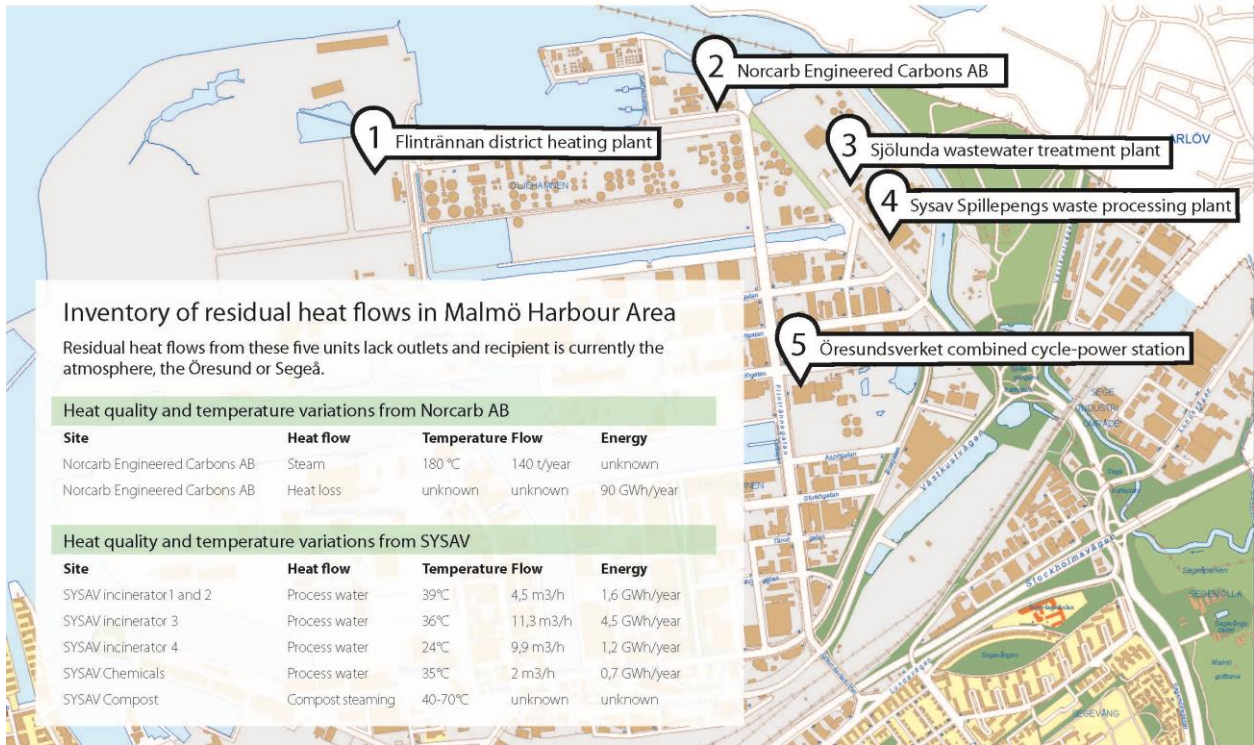
Maps of the Malmö Harbour Area

Malmö Harbor Area

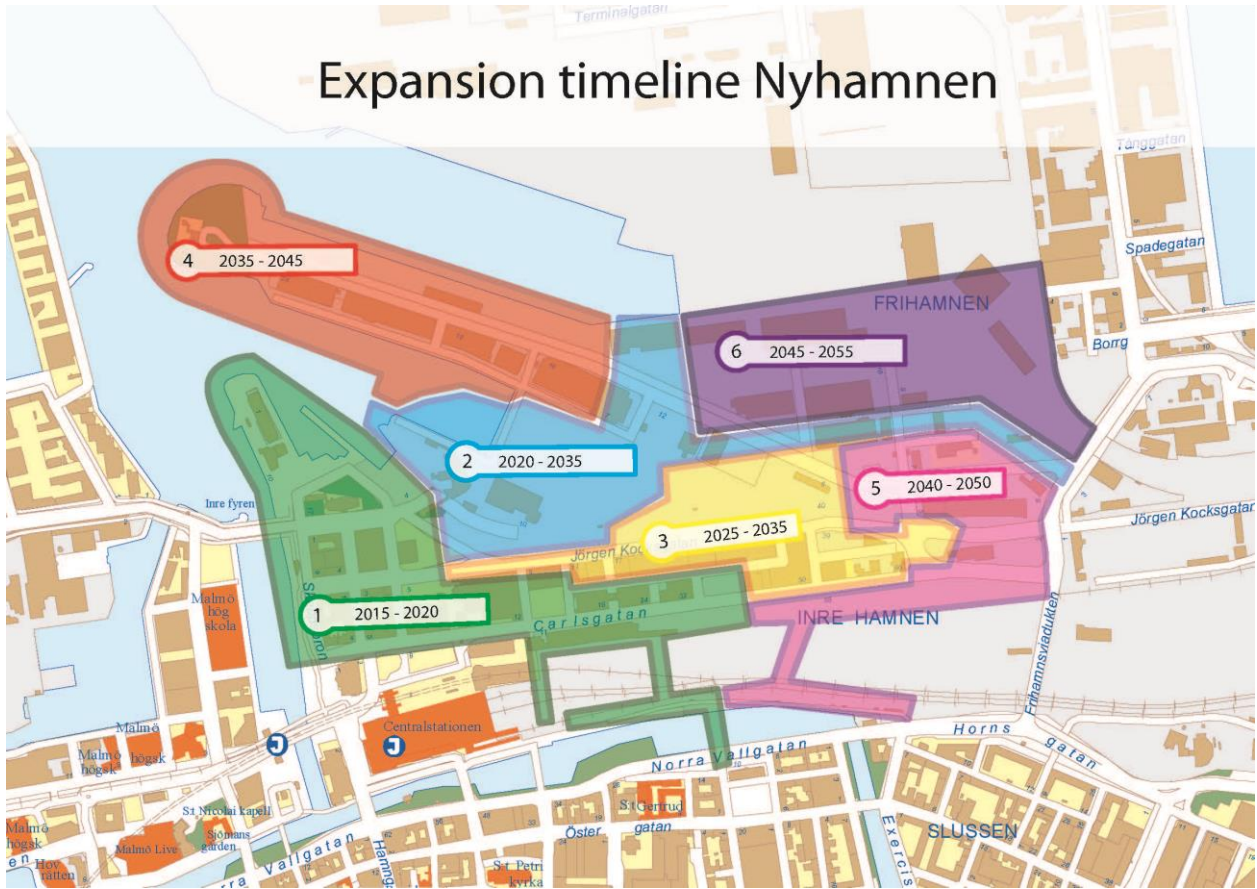


Map 1 shows infrastructure in the Malmö harbour area, areas with access to residual heat flows with large surpluses during the summer months, and areas with steam access. This map also shows a designated area that is considered particularly interesting by

Malmö Harbor Area Heat production units



Map 2 shows heat productions units in the Malmö harbour area and an inventory of residual heat flows from two units.



Map 3 shows expansion timeline for the area Nyhamnen in Malmö harbour area.