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Urban planning for solar energy in Lund

The city of Lund with 115 000 inhabitants is planning for the development of a new urban district, Sydvästra Lund (Southwest Lund), which also includes a new train station. The train station is planned to be ready 2024. Ensuring a high share of renewable energy supply is an important aspect in planning for this new district. The city of Lund is especially considering possibilities for solar energy installations. This pilot project within the BEA-APP project will look into how Skåne Energy Agency, Skåne Association of Local Authorities can support City of Lund in giving the best prerequisites in the planning process for solar energy installations.

Area of Sydvästra Lund. Aerial picture: Ingvar NIlsson

Skåne, Sweden

Main aspects and lessons learned

To plan for a new city district takes time, much more time than anticipated. The new train station in Sydvästra Lund will be in place in 2024 and the pilot project started in 2016, very early in the process. When starting the pilot, some dialogue meetings had been held by the City of Lund and an architect contest had been organised. In the beginning of the pilot project there was not really much information to relate to regarding planning of buildings and solar energy installations. At first glance it would look like a problem but it turned out to be the other way around. By being part of the planning process in a very early stage it was possible to bring up solar energy on the agenda and give the planning group the possibility to work in an unrestricted way about possible solar energy installations. Also, it gave the planning group the possibility to plan the area for the best conditions for solar energy before anything is already set and difficult to change when decided.

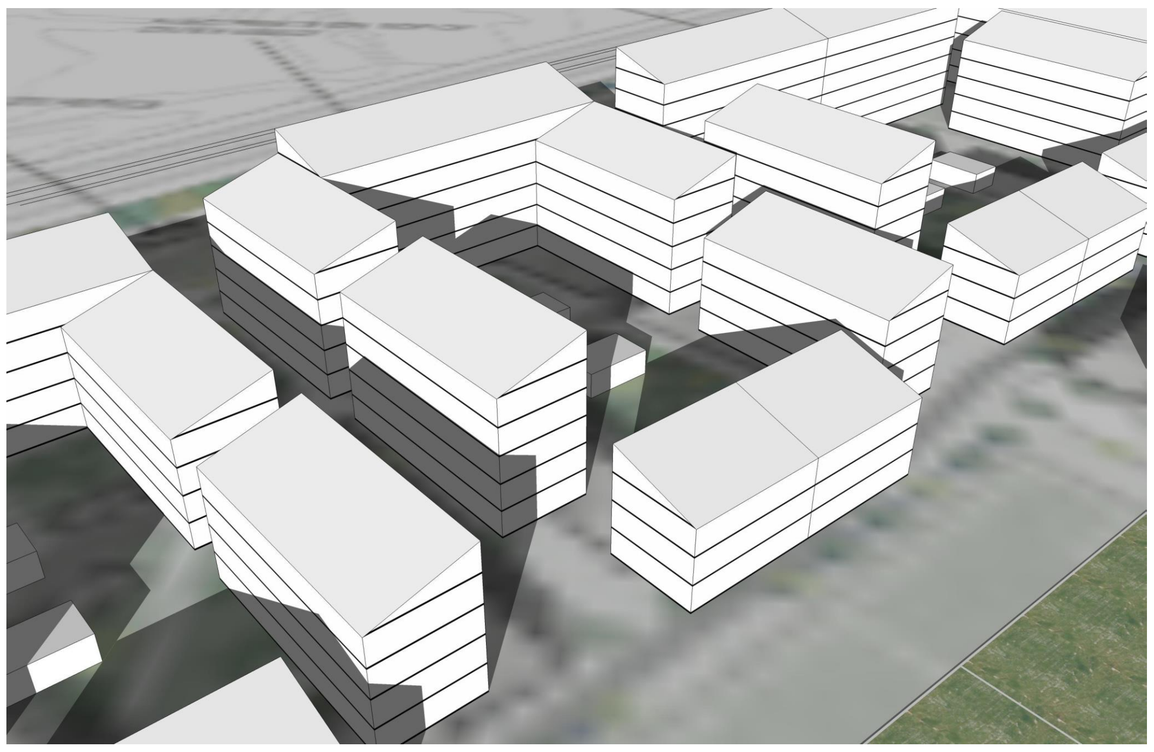
To bring in an expert consultant that had worked with urban solar energy planning before was very useful. The consultant was able to give the planning group valuable advise, and the inspirational examples the consultant presented gave a new perspective on solar energy. The example model the consultant developed in 3D with a block of buildings optimised for solar energy installations was brilliant and gave the planning group valuable insights for the future development of Sydvästra Lund.

Main results

The planning process: *Working with solar energy aspects early in the planning process have been very fruitful. This give the planners in the municipality possibilities to think about solar energy aspects early and adjust the planning accordingly. Still it is important to remember it will never be the municipality itself that installs solar energy in a new area if it is not the municipality's own buildings. What the planners can do, is to design a new area with the best prerequisites for making installation of solar energy economical profitable and the deprecation time as short as possible.*

3D-model Sydvästra Lund: *An expert consultant was contracted to support the planning group in the process and develop a design of a 3D area model where the buildings are optimised for solar energy installations in Sydvästra Lund. Also, calculations were performed by the expert consultant to show how much renewable solar energy that would be possible to produce from the optimised buildings.*

Stakeholder involvement: *To work with urban planning for solar energy is not a one-man job. Of course the responsible architect for the area is a very important person but to be successful many other positions need to be involved.*



3D model of new urban area optimised for solar energy installations on roof tops

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BEA-APP is co-financed by the European Regional Development Fund through the Interreg Baltic Sea Region programme