



The Heating Sector

A Sector with Complex Planning

As in the electricity sector, renewable energy has played a role in the heating sector since the mid 70's. Solar heating and biomass has been and are still the most important resources in this sector. A number of consumers also have switched to a heatpump from heating based on electricity or heating oil.

Energy saving measures is an important part of the heating sector. This has resulted in tighter legislation in the area of energy regulations for old and new buildings.

District Heating

District heating has been a considerable way of distributing heat in larger cities in Denmark since the middle of the 20th century. Present larger schemes are normally based on co-generation, but district heating has spread to small schemes. District heating therefore plays a natural part in the energy planning on Samsøe.

From the beginning of the renewable energy project in 1997 seventeen villages were planned to be included in district heating schemes. Tranbjerg, the main town of the island, has had district heating based on straw since 1993. According to the initial energy plan district heating was expected to cover 65% of the need for heating on the island. Two years

of planning and co-operation with citizen groups has resulted in a reduction from the original planned seventeen villages to ten. This means that it is possible to cover 50% of the island with district heating based on renewable energy.

Individual Heat Supply on Samsøe

Outside areas to be covered by district heating, a little less than 2000 residences are situated. Of this 800 buildings count part-time houses or summer-houses.

Summerhouses are typically in use when the need for heat is at the lowest, and these houses primarily get their heat from electricity or wood burning stoves. The rural areas are dominated by individual heating based on oil. Planning and alteration of the heat supply in these areas is a very demanding task.

There is a great deal of senior citizens in these areas for whom a switch to renewable energy can seem too great an economical challenge. A switch to new forms of heat supplies can also show some practical difficulties for elderly people. The overall planning still operates with electricity heat and heatpumps due to these facts.

The large effect of the wind energy will, never the less, still enable heating by electricity.



Solar heating system in Mårup Harbour