

## Household Appliances in Passive Houses

Helena Karresand

Dept. of Thematic Studies – Technology and Social Change

Linköping University, Sweden

helena.karresand@liu.se

These are some preliminary thoughts on a case study on household appliances and their role in homes built according to the Passive house standard in the residential area Lambohov in Linköping. The aim of the study is to investigate how the newly built rental apartments are equipped before the families move in. What sort of appliances are chosen and how energy efficient are they? Passive houses are designed in a way that minimizes the need of additional heating. By for example using the natural sun light and the heat generated from appliances like refrigerators and washing machines the need for in-house heating is very low. Because of this there appears to be a conflict between using energy efficient appliances and the ambition to keep additional energy supply for heating purposes to a minimum. Another question concerns the amount of additional electrical equipment a family uses on a daily basis. Does it affect the indoor climate or the experience of it? What are the consequences of using a lot of electrical equipment in a passive house? Do the tenants get any specific information about living in a passive house and how does the housing company deal with these issues? These are some of the questions that are to be explored as part of an interdisciplinary project within Program Energisystem this spring.