

## EEbuild collaboration

Energy-efficient buildings are essential for sustainable development. The design, construction and use of buildings are closely related to environmental, economic and social development. The potential to improve energy-efficiency in buildings is huge. Realization of the potential will require innovative research, covering aspects of technology, economy, policy and users' needs. Moreover, new research will need to be conducted in close collaboration with various actors in the building industry.

The researchers of EEbuild provide a broad competence in research related to energy-efficient buildings. Important research topics are:

- Development of innovative technologies and integrated systems
- Cost structures and policy options
- Multiple goal strategies for the construction, management and use of energy-efficient buildings
- Knowledge, attitudes, behaviour and interactions of various actors in decision making processes
- Financing and insurance issues

## Contact persons

### Lena Neij

The International Institute for  
Industrial Environmental Economics (IIIEE)  
Lund University  
P.O. Box 196, SE-221 00 Lund, Sweden  
Phone: +46 46 222 02 68  
Lena.Neij@iiiee.lu.se

### Maria Wall

Energy and Building Design  
Dept of Architecture and Built Environment  
Lund University  
P.O. Box 118; SE-221 00 Lund, Sweden  
Phone: +46 46 222 96 62  
maria.wall@ebd.lth.se

### Elisabeth Kjellsson

Building Physics  
Dept of Building and Environmental Technology  
Lund University  
P.O.Box 118, SE-221 00 Lund, Sweden  
Phone: +46 41 47 06 77  
Elisabeth.Kjellsson@byggtek.lth.se

### Anna-Lisa Lindén

Department of Sociology  
Lund University  
P.O. Box 114, SE-221 00 Lund, Sweden  
Phone: +46 46 222 88 34  
Anna-Lisa.Linden@soc.lu.se

### Mikael Klintman

The Research Policy Institute (FPI)  
Lund University  
Scheelevägen 15, IDEON Alfa 1,  
SE-223 63 Lund, Sweden  
Phone: +46 46 222 38 97  
Mikael.Klintman@fpi.lu.se

[www.iiiee.lu.se/EEbuild](http://www.iiiee.lu.se/EEbuild)



LUNDS  
UNIVERSITET

Tryck: C. A. Andersson, December 2005

# Energy-efficient buildings EEbuild

A multidisciplinary research collaboration  
on energy-efficient buildings



LUNDS  
UNIVERSITET



**Maria Wall, Energy and Building Design,** is engaged in research related to energy use and energy-efficient buildings. Her work is focused on how different designs and technical solutions influence energy use and comfort. Effects and requirements of occupants are essential. Her work and the research within Energy and Building Design also include passive and active solar design, daylight utilisation and shading of buildings. The research is carried out in close cooperation with the building industry.

**Lena Neij, The International Institute for Industrial Environmental Economics (IIIEE),** is engaged in research related to energy for sustainable development, covering sustainable and energy-efficient buildings. Her work and the research within IIIEE covers the dynamics of energy systems, policies and strategies related to energy efficiency in buildings, methods for analysing technical change and commercialization of new products and methods for designing and evaluating policy instruments for energy efficiency.

## EEbuild

EEbuild is a multidisciplinary research collaboration on the complex area of energy-efficient buildings.

The objectives are:

- to advance knowledge and understanding
- to strengthen system perspectives
- to gain arguments for energy-efficient technology, behaviours and use of buildings in the future.



**Anna-Lisa Lindén, Department of Sociology,** is engaged in research concerning environmental impacts from food and energy consumption; travel patterns and recycling. Policy instruments are most often designed to change human values, decisions and behaviour. Evaluations of the efficiency of policy instruments in that mission points out the complexity in influencing individual attitudes, decisions and behaviour and a need to take individual as well as structural factors into consideration.

**Mikael Klintman, Research Policy Institute (FPI),** studies the societal processes – from research findings surrounding environmentally sound solutions, and to policies as well as public acceptance. He has examined the socio-cultural preconditions for more efficient energy use among households, residential areas, and real estate companies. Mikael has studied the decision-making processes concerning eco-adapted heating systems. The socio-cultural and economic challenges to environmental adaptation in old or new housing areas lie within his research scope.

**Elisabeth Kjellsson, Building Physics,** is engaged in research regarding solar energy and the use of energy in buildings. Included research areas are solar heat as well as solar electricity and also the combination of solar and ground heat. Elisabeth has also been involved in research work regarding policy instruments for energy-efficient buildings and introduction of solar electricity in buildings.