Quantifying Industrial Non-Energy Benefits:

A Swedish Interdisciplinary Research Project

Josefine Rasmussen
Maja Dahlgren
Why are we interested in NEBs?

- Inspired by IKEA
- Make ourselves redundant
- NEB incorporated in our policy programmes
  - Requiring NEB data when companies seek financial funding
- Improving competitiveness through incorporating NEBs into decision-making
Research information

• Outcome: Tool for companies to use for a better understanding of investments
• Cooperation with academia rather than consultants: knowledge spread quickly
• Two PhD students from different disciplines
  – Energy systems
  – Business administration
• Old and new data
  – Programme for Energy-intensive Industry (PFE)
  – Energy Audit Subsidy programme
  – New data
The set-up

Swedish Energy Agency

Industry

Energy Systems, University of Linköping

Business administration, University of Linköping
Where we are now; Literature review and pilot study

- Started during the fall 2013
- Literature review of previous research on non-energy benefits and investment behaviour
- New framework for classifying NEBs and suggestions on how to integrate these into the decision-making process
Pilot study

- Interviews aimed at energy managers at energy intensive firms
- What NEBs have been detected and are quantifiable
- Barriers inhibiting the inclusion of NEBs investment calculations in energy efficiency technologies
- Both the literature review and the pilot study will be presented at the ECEEE Summer Study in June 2014
What’s next

• During 2014: Prepare and perform a questionnaire study covering economic aspects and NEBs
• 2015: Analysing existing as well as the newly collected data
• Reach a work method to act as a tool for the industry
Thank you!

Contact us:

• Maja Dahlgren, Swedish Energy Agency: maja.dahlgren@energimyndigheten.se
• Josefin Rasmussen, University of Linköping, josefine.rasmussen@liu.se
• Patrik Thollander, University of Linköping, patrik.thollander@liu.se
• Mikael Ottosson, University of Linköping, mikael.ottosson@liu.se