

# BeAware

**Project type:** Design, Service, Behaviour

**Time:** 2008-2011

**Target groups:** Researchers, Industry, EU, consumers.

**Contact information:**

Carin Torstensson,  
carin.torstensson@tii.se

**Status:** Ongoing

**Budget:** Total € 10 643 000

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**Partners:** Helsinki University of Technology, University of Padova, BaseN Corporation, Engineering Ingegneria Informatica, Vattenfall Research and Development AB, ENEL.si and IES Solutions.

BeAware is a collaborative research project co-funded by the European Union. BeAware studies how ubiquitous information can turn energy consumers into active players by developing:

1. An open and capillary infrastructure sensing wirelessly energy consumption at appliance level in the home
2. Ambient and mobile interaction to integrate energy use profiles into users' everyday life
3. Value added service platforms and models where consumers can act on ubiquitous energy information and energy producers and other stakeholders gain new business opportunities.

# Prototypes and demonstrators



## ENERGY LIFE

A solution to motivate and empower citizens to become active energy consumers, by offering them the opportunity to raise awareness of their own power consumption in real time. Energy Life includes a mobile phone application and an ambient interface that makes use of the home lighting and lamps as a means to communicate with the user. Energy Life includes an engaging and game-like mobile phone application, and an ambient interface that makes use of the home lighting and lamps as a means to communicate alerts. By combining novel yet advanced technologies such as wireless sensor networks, service-oriented architectures, ambient and mobile interfaces, residential energy consumers can be targeted effectively.

So far, energy conservation has focused on new often proprietary technologies and automation, treating users as passive consumers. However, strong evidence suggests that users can adapt their behaviour to energy saving with suitable feedback, support and incentives.

Giulio Jacucci, coordinator

## Publications:

Gamberini L., Jacucci G., Spagnolli A., Björkskog C., Kerrigan D., Chalamalakos A., Zamboni L., Valentina G., Corradi N., Zappaterra P., Bosetti G. (2009). **Technologies to improve energy conservation in households: The users' perspective.** Paper presented at the First European Conference Energy Efficiency and Behaviour – Maastricht, October 18-20.

Liikkanen (2009). **Extreme-user approach and the design of energy feedback systems. Full paper in the proceedings of Energy Efficiency in Domestic Appliances and Lighting EEDAL 2009 conference.** Berlin, Germany

Liikkanen (2008). **Increasing residential energy awareness with disaggregated real-time feedback. Increasing residential energy awareness with disaggregated real-time feedback.** Abstract for the poster presented at Behavior, Energy and Climate Change 2008 conference. Sacramento, CA

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## BeAware project participants (from Interactive Institute):

Carin Torstensson (work leader), Li Jönsson (designer), Sara Tunheden (designer), Jonas Andersson (developer) Olle Dierks (communication strategist)

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