eTEACHER

End-users tools to empower and raise awareness of behavioural change towards energy efficiency

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3 schools

2 health care centres

2 offices

5 residential buildings

eTEACHER will encourage and enable energy behaviour change of building users through research, monitoring and trials within 12 pilot buildings in Romania, Spain and the UK.

12 pilots

3 european countries

5,000 people involved

3 climatic areas

Learn more about the project on eteacher-project.eu and on Twitter @eteacherEU

eTEACHER
Empowering Energy Education

A new web-based app to enable energy saving

The EU-funded **eTEACHER project aims to empower energy users in buildings to achieve energy savings, reduce carbon emissions and improve comfort and health conditions** through enabling behavioural change.

eTEACHER will function as a **web-based app** to provide feedback and tailored advice to building users to motivate and enable more energy efficient behaviours.

eTEACHER is novel through its use of **gamification principles to motivate engagement**, and the incorporation of innovative ICT-based tools to enable users to better understand energy issues in the buildings they interact with.
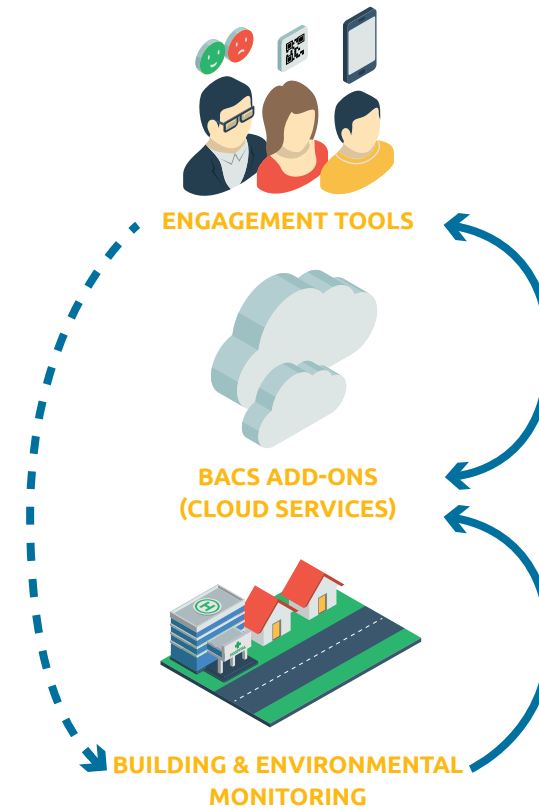
Enabling change through user engagement

eTEACHER is adopting a **unique approach of ongoing engagement with its future users** to shape its development and support the tool's adoption and use.

Engagement with building users **identified the key behavioural factors influencing energy use** in each building. It gave context to how the eTEACHER tool could have impact in each building, by understanding the capability, opportunities and motivation for changing energy-related behaviours. Subsequent engagement, through Feedback Forums with building stakeholders, is informing the **design of the eTEACHER tool**, including its functions, language and imagery, to make it intelligible, useful and appealing to its intended users. Finally, the deployment of eTEACHER will encourage **discussion and interaction between building users**.

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eTEACHER is an **ICT solution for buildings users** - building owners, occupants and facility managers - **to save energy and optimise indoor environmental quality.**

Our mission is to encourage and empower buildings users to change their behaviour towards energy efficiency. For that purpose, **eTEACHER processes information from buildings and users, integrates behavioural change techniques and provides tailored advice**, ensuring friendly connection between buildings users and systems.

ENGAGEMENT TOOLS

BACS ADD-ONS (CLOUD SERVICES)

BUILDING & ENVIRONMENTAL MONITORING

What are our empower tools?

The eTEACHER solution includes engagement tools, such as smart buttons, a mobile application and dashboard, and Building Automation and Control System Add-ons and services.

• The **Users´ Application** behaves as an advisor. It collects feedback on comfort and provides tailored advice to save energy and to improve indoor environmental quality. It uses gamification methods to encourage end-users on behavioural change.

• **UBCI** is a communication interface to collect and store monitoring data from buildings and facilities.

• The **Metrix** service aims at providing performance metrics on energy and indoor environmental quality.

• **Pulse** is a digital service that collects and analyses end-user feedback on indoor environment quality and its relation to buildings' systems performance.

• **What-if analysis** identifies energy conservation measures based on behavioural change of building users by processing monitoring data and by taking into account building and facilities features.

What makes the difference?

• User-oriented design to ensure user engagement and enhance results

• Identify poor use of energy

• Advise building users on how to use energy efficiently and how to improve indoor environmental quality

• Interoperable solution