

Project: REViSITE - Roadmap Enabling Vision and Strategy for ICT-enabled Energy Efficiency (www.revisite.eu)



Title: D4.4 Recommendations to Education and Training Systems

<http://www.revisite.eu/deliverables.html>

Executive summary:

This deliverable provides recommendations to the education and training community on the introduction of selected multidisciplinary topics on ICT4EE identified from the REViSITE Roadmap. The main aim is to raise awareness of the impacts of ICT4EE in the European education and training community and to provide recommendations on introducing “plug-in” multidisciplinary courses at early stages for ICT4EE on selected topics identified from the roadmap. The Implementation Action Plan (IAP) was the basis for developing the courses, where both recommendations to the education community and the recommendations to the research and innovation funding organisations were carefully studied to extract the possible and immediate learning material. This has been undertaken in combination with a desktop research for existing ICT4EE programmes across the world and an investigation by partners with their direct contacts in their specific sectors.

The outcome has clearly indicated that education on ICT for EE is very fragmented. There are many courses which use ICT only as a tool (e.g. tools for thermal analysis or computer aided lifecycle assessment) within a limited aspect of energy efficiency (e.g. energy efficient production). Following this path there is currently no domain for students to learn about impact of ICT on different stages of the lifecycle of systems.

As a conclusion 8 learning themes in the subject of ICT4EE have been identified as follows: Integrated design; EE data models; Metrics and methods for quantitative assessment of the impact of ICT on EE; Data visualisation and decision support particularly in the “usage” phase of each sector including behavioural science; ICTs to facilitate new business models and work practices; Life cycle energy modelling and estimation; Integrated monitoring, analytics and control for improved EE; Introduction to cloud computing and network enabled energy services.

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