



Transferring Energy Efficiency in Mediterranean Schools (TEESCHOOLS) Project

SCHOOL BUILDINGS TOOL

Maria-Anna Segreto

ENEA

mariaanna.segreto@enea.it

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Aim of the project and partners



- Transferring Energy Efficiency in Mediterranean SCHOOLS (Teeschools) aims to develop an integrated strategy for Mediterranean countries that supports Public Administrations (by providing innovative tools and trainings) in energy renovation of public school buildings promoting the construction of nZEB (Nearly Zero Energy Building)
- Project consortium: 11 partners from 7 countries (6 MED + 1 IPA): Italy, Greece, Spain, Cyprus, Croatia, France and Bosnia and Herzegovina
- **ENEA** is the project coordinator.



Main Activities



An integrated set of tools (**Pre audit simplified Web tool** and a **database of best practices**) has been developed (available at www.improveyourschool.enea.it).

The pre audit Web tool has been tested and validated in 3 schools of the 7 partner region. Pilots included: energy audits of representative school buildings, drawing up preliminary renovation plans, calculation of carbon footprint of the renovation activities, development of energy service models and financing schemes.



Main Activities



- Inventory of financing models available in partner countries.
- Face to face trainings have been conducted involving energy managers, Municipal staff, professionals and students. Open lessons have been conducted in schools. A e-learning course have been developed <https://elearning.enea.it/course/index.php?categoryid=71>
- Policy recommendations have been issued to remove the identified barriers for a full exploitation of the energy efficiency potential of public buildings



WEB TOOL



The most important outcomes of TEESCHOOLS Project is the **simplified web tool**. It allows school buildings stakeholders to evaluate the energy profile of the building and estimate the energy savings achievable by renovation activities.

The tool is not a design tool. The design of improvement actions must be entrusted to professionals (engineers, architects, energy expert...) chosen by the building owner.

The tool, however, gives the possibility to evaluate if it is the case to proceed with a deepened energy audit and then it allows to evaluate what is the intervention that can give the greatest savings.

In fact the tool allows to appraise the weight of every single action in comparison to the total saving.



WEB TOOL



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In central Europe large parts of the existing building stock were built before 1970 and as a result, performance is not in line with required energy efficiency standards. Renovation of buildings emerges as an urgent issue but while incentives are provided to private investors, public building renovation is more difficult as local authorities face significant limitations of budget. Another barrier is the lack of knowledge of performance/cost characteristics for efficient renovation of buildings. The FEEDSCHOOLS project aims to provide local authorities with new solutions, both technical and financial, which will help them to implement 'nearly Zero Energy Building' (nZEB) renovation activities in schools. The innovative approach consists in developing a transnational and holistic support toolkit and a web database of innovative best practices for nZEB renovation. FEEDSCHOOLS will also provide open lessons focused on behavioural change in schools. At least 48 energy audits will be implemented and preliminary plans for nZEB renovation of existing schools will become a reference models for the region.



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Thanks for your attention!

M.-A. Segreto

mariaanna.segreto@enea.it



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