

**ENERGY@SCHOOL**  
ENERGY OPTIMIZATION  
AND  
BEHAVIOUR CHANGE  
INTO SCHOOLS  
OF CENTRAL EUROPE



## WHAT WE DO

ENERGY@SCHOOL is a transnational cooperation project financed by the Central Europe Programme. ENERGY@SCHOOL aims to increase the capacity of the public sector for implementing energy smart schools and to introduce the idea of senior and junior energy guardians (EGs). The project involves 12 partners from 7 European countries who will:

- favour cultural change on energy matters,
- boots progressive change towards energy smart schools,
- strenghten competences and skills in the field of energy saving. It starts in July 2016 and finishes in June 2019.



7  
COUNTRIES

12  
PROJECT  
PARTNERS

9  
REGIONS

2.6  
MILLION EURO  
PROJECT BUDGET

TAKING  
COOPERATION  
FORWARD

## WHO WE ARE

Partners from seven central European countries join their forces to improve environmental management in urban areas.

### Austria

- ▣ Provincial capital Klagenfurt on lake Worthersee <http://www.klagenfurt.at/>
- ▣ Graz Energy Agency <http://www.grazer-ea.at>

### Croatia

- ▣ City of Kralovac <http://www.karlovac.hr>

### Hungary

- ▣ City of Szolnok <http://info.szolnok.hu>
- ▣ Local Government of Town Ujszilvas <http://www.ujszilvas.hu>

### Italy

- ▣ Union of Municipalities of Low Romagna Region <http://www.labassaromagna.it/>
- ▣ University of Bologna, Department of Industrial Chemistry <http://www.chimica-industriale.unibo.it>
- ▣ CertiMaC s.c.r.l <http://www.certimac.it>

### Poland

- ▣ City of Bydgoszcz <http://www.bydgoszcz.pl>

### Germany

- ▣ City of Stuttgart <https://www.stuttgart.de>

### Slovenia

- ▣ KSENA Energy Agency <http://www.kssena.si>
- ▣ City of Celje <https://moc.celje.si>



### Who funds us

Our project is funded by the Interreg CENTRAL EUROPE Programme that encourages cooperation on shared challenges in central Europe. With 2,2 milion Euro of funding from the European Regional Development Fund, the programme supports institutions to work together beyond borders to improve cities and regions in Austria, Croatia, Czech Republic, Germany, Hungary, Italy, Poland, Slovakia and Slovenia.

DISCOVER MORE ABOUT  
**ENERGY@SCHOOL**

[www.interreg-central.eu/ENERGYSCHOOL](http://www.interreg-central.eu/ENERGYSCHOOL)  
[www.facebook.com/EnergyatSchool](https://www.facebook.com/EnergyatSchool)

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[www.interrreg-central.eu/discover](http://www.interrreg-central.eu/discover)

## FACTS AND FIGURES



## Outputs

ENERGY@SCHOOL partners joint their international experience and effort to implement energy smart schools and to create new energy culture. Numerous activities are planned witin 3 years coopearation that will result in creating:

- 1 joint transnational and 8 local strategies for smart schools
- 3 smart phones Apps for Energy Guardians
- 8 tested pilot solutions for energy efficiency and RES application in schools in the form of guidelines, toolbox, best practices
- 1 Common Strategy and 8 Energy Guardians Smart-school Management Plans indicating actions necessary to achieve higher energy savings
- upgraded decision-support Toolbox for Energy Guardians in schools to help them with optimization of energy consumption and saving in their school.

## STRATEGIES AND ACTION PLANS

Energy Smart School Management Plan will define management and behavioural actions to be taken by energy guardians. It will be a result of school inventory, collection of EU best practices, classification of energy saving and analysis of EE financing. The international plan will be the base for 8 local plans for partners' schools and will serve as an example for others. The plan will be signed by both mayors and school principals as the Memorandum of understanding. Transnational Common Strategy for Smart Schools will be greatly devoted to education on energy matters and will raise awarness on behavioural change. The main theme will be saving money to reinvest in energy smart schools buildings and education. It will be a result of technical works such as energy audits, application for smart phones and installation of smart meters in pilot schools. Strategy will include tools, guidelines and methodologies for other smart schools in Europe.



## TRAINING

Newly activated energy teams in public buildings called in the project junior and senior energy guardians will go through specific trainings that will focus on reducing energy costs. The idea is to reinvest the money saved into energy education and to drive behavioral change. Trainings are targeted to municipal staff, teachers, technicians and pupils. They will help technicians and teachers in management of school buildings and to renew their competences. Training for pupils will be based on simulation game and will increase their knowledge about energy efficiency solutions, help them to reduce their school energy impact and develop citizenship skills. 24 training and education programmes will be provided as replicable models for Energy Culture rooting.



## TOOLS

Project partners will create 3 smart phones applications for energy guardians in order to save energy in schools. Smart metering systems installed in schools as pilot investments will provide real-time-monitoring of energy consumption in schools after a refurbishment intervention. A joint method will be developed to compare achievements in different schools. Energy Manual for Schools will be jointly developed by junior and senior energy guardians. Students from different schools will exchange their experience concerning the Energy Culture Action Plan of junior energy guardians and will draw up an Energy Manual for school. The Manual will assist school decision makers in planning, financing and maintaining energy efficient schools. The educational methodology will be in line with Europe Energy strategy.



## PILOT ACTIONS

8 pilot investments will be tested within the project and supervised by energy guardians. The aim of investments is to set up enegy management system in 41 public schools in 6 european cities in order to monitor and influence energy consumption. Investments will include installation of smart meters, detectors and other equipment for monitoring energy data in real time. As a result of pilot action 41 schools will be equipped in building energy management system (BEMS) for thouroughly monitoring the energy performance according to the specific needs of each school. Findings of those investments will be described in guidelines, toolbox, best practices and capitalized far beyond project end.

