

TAKING COOPERATION FORWARD



■ Jilhava - 22 May 2017



■ Investing in users' engagement and behavioural changes:
ENERGY@SCHOOL project, another perspective on
Energy Education and Culture in the Schools



■ CertiMaC - Italy

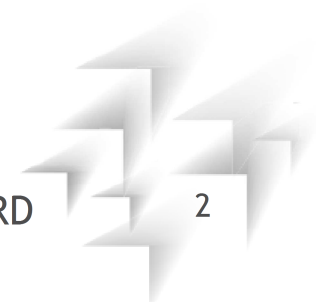
■ *Elena Casiraghi: Grant Writer and Vocational Educational Training*

- **ENERGY@SCHOOL:**
- **ENERGY OPTIMIZATION AND BEHAVIUR CHANGE**
- **INTO SCHOOLS OF CENTRAL EUROPE**



TAKING COOPERATION FORWARD

2



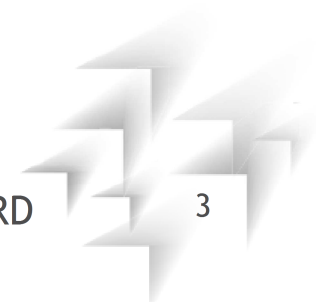
THE PARTNERSHIP

- 1 Union of Municipalities of Low Romagna Region , Lead Partner - I
- 2 CertiMaC s.c.r.l. - Italy
- 3 City of Bydgoszcz - Poland
- 4 ENERGY AGENCY OF SAVINJSKA, ŠALEŠKA AND KOROŠKA REGION - Slovenia
- 5 City of Karlovac - Croatia
- 6 University of Bologna - Dept of Industrial Chemistry - Italy
- 7 Municipality of the CITY Szolnok with County Rank - Hungary
- 8 Local Government of Town Újszilvás - Hungary
- 9 City of Stuttgart - Germany
- 10 Klagenfurt - Austria
- 11 Graz Energy Agency - Austria



TAKING COOPERATION FORWARD

3



- Main ENERGY@SCHOOL objective is to increase the capacity of the public sector to implement Energy Smart Schools, by application of an integrated approach that educate and train schools staff and pupils to become Senior and Junior Energy Guardians (EGs) who will engage on progressive and sustainable energy efficiency of buildings and an adequate transfer of a correct attitude towards energy consumption (“energy culture”).



Some of the PROJECT OUTCOMES

- 1 Common/Transferrable and 8 customized Strategies for Smart Schools,
- 1 joint and 7 customized Energy Smart-school Management Plans,
- 3 smart phones APPs for Energy Guardians,
- 8 tested pilot solutions of EE & RES application in schools under direct contribution of Energy Guardians, in the form of Guidelines, Toolbox, Best Practices as reference documents and experiences to be capitalized far beyond the project end.
- Training & education programs as adaptable & replicable models for capacity-raising and Energy Culture rooting.



TAKING COOPERATION FORWARD

- Implementation of transnational school-facilities inventory and assessment of EE priority interventions.
- Collection and analysis of Best Practices at EU level related to EE interventions in schools.
- Inventorying/classifying energy-saving and RES technologies and detecting
- best bundle of measures for schools.
- Investigating the financing of EE measures and developing a School Business Model.
- Upgrading existing Decision-support Tools to ease School EGs actions towards energy consume/saving optimization.



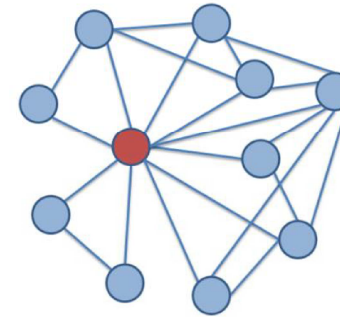
- Common methodology for evaluation of school-facilities
 - energy consumption and for assessment of
 - priority EE interventions
- Excel MODEL DEVELOPED BY CERTIMAC RESEARCHER THAT CAN BE USED BY ENERGY AUDITORS/EXPERTS TO COLLECT AND REGISTER DATA FROM BUILDINGS
- THE MODEL IS DESIGNED SO AS TO ELABORATE FEEDBACK INFORMATION ON ENERGY EFFICIENCY OF THE SCHOOL AND TYPE OF ENERGY EFFICIENCY INTERVENTIONS RECOMMENDED TO BE TAKEN UP



- The innovative character of the project lies in the active involvement of employees, experts, students, teachers, families in the process of transforming the school into an energy smart school through specific and targeted training and education activities.
- Strategic approaches to connect buildings with their users are lacking. The project will train/educate Senior and Junior “Energy Guardians” who will engage on progressive and sustainable energy efficiency of buildings and an adequate transfer of a correct attitude towards energy consumption (“energy culture”).




- Network Operation Centre (NOC) is a management and operational base for Senior Energy Guardians (SEG), within which we will be able to develop their skills and capacities. NOC is a body that facilitates and intertwines all activities within the project (from all WPs), that are focused on professional development of SEGs.



- Within Energy@School project we have established:

- -1 joint NOC
- -8 local NOCs

- Joint NOC will be established on the partnership level. One Joint NOC will be established, that connects all 8 local NOCs, provides them with necessary materials and monitors their operation.

 Local Network Operation Centre is a central point in the municipality, that connects all Senior Energy Guardians from different schools (and public buildings) in the Municipality in one network, supports their professional

TAKING COOPERATION FORWARD

- The joint NOC is a team constituted by experts from different technical project partners, who are responsible for developing tools, materials and guidelines, that are the base for SEGs capacity building and skill development.
- Main tasks of Joint NOC are:
 - 1. Developing materials, guidelines and tools for capacity building of SEGs
 - 2. Monitoring local NOCs
 - 3. Updating final outputs of the project
- 1 Developing materials, guidelines and tools for capacity building of SEGs
- Joint NOC will distribute those materials to Local NOCs, and Local Nocs will distribute them to their network of SEGs, so that energy guardians will be able to implement project activities.
- 1 Monitoring local NOCs
- Joint NOCs will be responsible to develop reporting templates and distribute them to local NOCs for monitoring the progress. Joint NOC will have to collect the following reports from local NOCs and draw final reports.



1. Vocational Energy Guardian Training Program (VEGTP) in which training programs are considered all-inclusive programs. Required to provide Senior Energy Guardians (SEGs) with a basic to advanced level
2. Continuing Energy Guardians Education (CEGE) in which is meant to provide training for SEGs who already had received basic training. Intended to help SEGs to renew their competences
3. Workshops and simulation game for Junior Energy Guardians



GAMEING THROUGH SMART PHONE APPS

- During the project a specific APP for Android and Smart Phones will be developed so as to become the main tool through which Energy Guardians will act their Monitoring on Energy Consumes within their oen School.
- The APP will be created so as to trigger a simulation gameing among participating schools and Energy Guardians. Energy behaviours and consumes will be recorded and the best performing school will win a journey to present their experience in the final conference in Italy (or in another participating country).
- Among other activities foreseen to raise commitment and participation by Energy Guardians: BAR CAMPS. These are local public event where the Guardians will have the chance to present in public, to a large audience and in very short speech, their personal own experience.



■ WHAT POSSIBLE SYNERGIES AND FRUITFUL COOPERATION BETWEEN *TOGETHER* AND *ENERGY@SCHOOL*, DURING PROJECT LIFETIME, IN ORDER TO TRIGGER HIGHER EXPLOITATION OF RESULTS FOR BOTH AND CONTRIBUTE MORE TOWARDS INTERREG CENTRAL EUROPE COOPERATION?

- *(some ideas...)*
- Exchange of practices?
- Mutual testing of tools?
- Video conferences between students in different schools (and between energy experts in different Municipalities) in the same country, in order to present experiences and be used as «inspiring talks»?



TO CONTACT US DIRECTLY

Insert Diagram with a click
CertiMaC - www.certimac.it (English website available)



ELENA CASIRAGHI - *Grant Writer - Vocational Educational Training expert*
e.casiraghi@certimac.it

LUCA LAGHI - *Head of R&D Department*
l.laghi@certimac.it

Unione Comuni della Bassa Romagna - Lead Partner
RITA RICCI
riccir@unione.labassaromagna.it

PROJECT WEBSITE:
<http://www.interreg-central.eu/Content.Node/ENERGYATSCHOOL.html>

 facebook.com/Energy at School



TAKING COOPERATION FORWARD