



Climate Friendly Management in European Schools

CLIMES is a two-year COMENIUS project aiming at developing a systemic approach to introduce the topic of climate change in European schools by implementing a functioning climate-friendly management system. The vision related to the implementation of the CLIMES management system is that the whole school community will be induced to behave in a climate-friendly way, i.e. to mitigate damages for the climate, and to adapt to the expected changes in climate.

Furthermore, CLIMES intends to promote a European exchange of experience and good practice among participating schools and external stakeholders and will organise European conferences with pupils and teachers of CLIMES partner schools.

CLIMES Award – Our way to a climate-friendly road

And the award goes to...

Pupils of the age between 14 and 19 years as groups or classes living in the EU were invited to take part in the European CLIMES Award by presenting their innovative projects in an inventive way. The best project ideas were chosen and the winners are invited to an award ceremony in Stockholm in December 2012.



CLIMES European award 2012
„Our way to a
climate-friendly school“

We invited more than 3.000 schools from all over Europe to present their projects and to show us their climate-friendly school. The independent jury selected two projects that were particularly interesting for various aspects and so absolutely different from each other.

One can be considered as being very practical and very much feasible for everyone, whereas the

other one is a lot more scientific.

Curious to learn more? Then read hereafter:

Everyone can be a hero! by Aizputes Secondary School, Latvia

“I beg you know what a superhero is? A superhero is a human being with super powers. But do you know how you can become one and save the world?”

The four students, Ieva Ozola, Krista Petrēvica, Oskars Otaņķis, Jurgis Toms Liepiņš, and their teacher, Vika Vasiļevska, from the Aizputes Secondary School in Latvia have very practical tips on how each of us can become a superhero. They explored the phenomenon of global warming and decided not to wait for governments to find a solution for this problem: Each individual can bring an important help adopting a more responsible lifestyle, starting from little, everyday things. The team collected information and gathered data on how every individual could actually take concrete steps to reduce CO₂ emissions.



They have come up with very practical tips that everybody can very easily do. Their way of bringing about the message to their friends and school mates is what convinced the jury– they chose no less a super-

hero than Superman and created a film by themselves. So we can see the four protagonists in the film – all wearing Superman costumes – presenting each of them a tip. Oskars explains how important trees are: A single tree will absorb one ton of carbon dioxide over its lifetime. His school organises each spring a day in which all students plant seedlings. Krista tells us to recycle waste. Jurgis cycles or walks and has already convinced his friends and family to do the same. Ieva gives tips on how to save energy at school and at home.

The four superheroes visited the children from smaller classes: “It was fun”, they told, “the children asked us for autographs!”

„We are keeping informing people, not only children and teenagers, but adults too. We hope that the local government will offer to join in different activities of environmental education. (in superhero's costume we are irresistible).”

Find here the film clip: [Everyone can be a hero](#)

Designing a climate-friendly and economic cooling system by TED Istanbul College Foundation Private High School, Turkey

The Turkish team consisting of the two students Sevgi Arca and Melih Iseri with their teacher Nurten Mersinlioglu designed a climate-friendly, renewable and economic cooling system which does not harm the natural resources.

Against the background that the impacts of global warming are being felt much more, the use of alternative energies such as solar energy for cooling has gained prominence in recent times. Cooling with available technological data proves to be costly and causes environmental pollution. When such facts are considered, the use of natural and unlimited sources of energy like soil and water has become highly appealing.

In the studies conducted so far, the cooling systems have been examined usually by using only one mechanism (zeolite or other porous materials). In this research, ceramic and zeolite have been used together in the designed cooling system. The aim was to develop a much more effective cooling system by using a combination of the transpiration cooling and adsorption/desorption mechanisms. Transpiration cooling is provided by the ceramic stones; the heat input and output characteristics of the adsorption/desorption mechanism of zeolite provides cooling.



The studies have been conducted in the school laboratory on the testing apparatus, which was built with materials available in the school.

Once the apparatus was set up, the upper grills were filled in with porous ceramics stone and zeolite, the water pump was activated to humidify the stones. The fans were activated and the heat was measured. One thermometer was placed among the stones and another one was put into the inner grill to measure heat. The tests were conducted in an ambient temperature of 20°C using water with 16°C temperature.

The team found out that the designed system creates a synergic effect as a result of the combination of the transpiration cooling and the adsorption/desorption mechanisms of water vapour in the cages in zeolite crystals. First, the water in zeolite evaporates and dries the surface in the system. The water in ceramic stones evaporates later since it is in the lower part. Then, it is adsorbed by the dry surfaces and causes heat increase. However, this heat makes the water in ceramic stones evaporate and cools the area during evaporation. Find here the presentation: [Cooling system](#)





Find the winning teams also on [Facebook](#)

Award ceremony in Stockholm, Sweden

The CLIMES partner schools and the winning teams will meet in December 2012 in Stockholm for the award ceremony, which is being organised by the host school, the Värmdö Gymnasium. The school has founded an "award group" that is involved in setting up a two-day programme for the European students. The programme includes an exhibition, where all schools can show their climate-friendly activities and projects. In addition there will be workshops, cultural events and also the traditional Lucia parade. Partner, teachers and students are looking forward to meeting in Stockholm...

In the next newsletter you will find more information on the Stockholm event.

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