



»A STUDY ON CLIMATE CHANGE TECHNOLOGY TRANSFER NEEDS« – MAIN RESULTS

The qualitative transnational study led by the Galileo University in Guatemala aimed at understanding and appropriately assessing the kinds of technological and information needs in Bolivia, Guatemala, Nicaragua, Peru as well as in Estonia and Germany.



The CELA partners interviewed decision-makers from science, businesses as well as government and non-governmental organizations about the respective issues. The central findings, however, provided a rather bleak situation: While there seemed to be a consensus that climate change should be a priority neither the will nor the resources are in place to manage potential future challenges. There is a big difference between the levels of awareness of potential impacts between Latin America and Europe which leads to a substantial need for more and better information of high

quality as Latin America is expected to be severely impacted by climate change and climate variability. Concerning higher education institutions, the findings suggest to embed climate change further into curricula, for example in agronomy, engineering, but also economics, business administration, IT and human sciences. Finally, the study indicated a distinctive for needs and demands on an infrastructure of Climate Technology Transfer Centres in all of the participating countries, a need which CELA will address in course of the project lifetime.

Download the full report (English language) at www.cela-project.net

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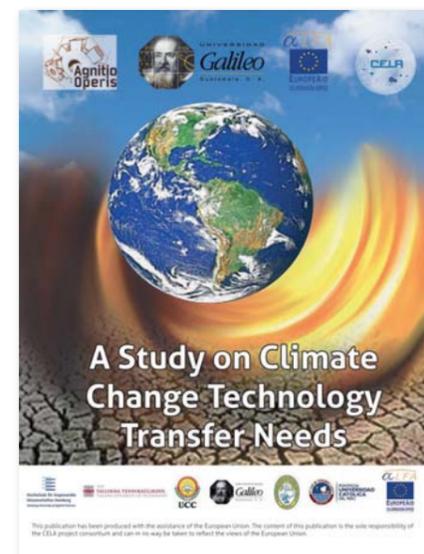
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CLIMATE CHANGE TECHNOLOGY TRANSFER CENTRES IN EUROPE AND LATIN AMERICA



STUDY ON CLIMATE CHANGE TECHNOLOGY TRANSFER NEEDS PUBLISHED



This study, 140 pages strong, is the result of a transnational survey which assessed current climate technology transfer needs in four Latin American and two European countries.

Showing the great potential of research and applied sciences concerning climate change at Latin American and European universities, the report reveals that much of this potential still remains dormant, especially for the surveyed Latin American countries Bolivia, Guatemala, Nicaragua, Peru. The results suggest a great demand for action on institutional levels as well as a need for improved international co-operation, both of which will be addressed

over the following months until the end of 2013 by CELA and its capacity-building and climate technology transfer activities.

(Article to be continued on last page.)

DEAR READER

Welcome to the third newsletter of the CELA project!

After the successful completion of our transnational study on climate change technology transfer needs, our partners in Bolivia, Guatemala, Nicaragua and Peru are in this second year implementing climate technology pilot projects on the ground. A key event for CELA is the »European and Latin American Conference on Climate Change Management (ELAC3M)«, 29-30 Aug 2013 in Antigua, Guatemala. Join us there to present your initiative to an international audience!



Enjoy the reading!
Franziska Mannke
CELA Germany

PREVIEW: MAIN CELA EVENTS IN 2013



NEXT PROJECT MEETING + SEMINAR: 4-8 MARCH 2013, LIMA / PERU



GUATEMALA CONFERENCE 2013: 28-30 AUGUST 2013, ANTIGUA / GUATEMALA



CELA FINAL CONFERENCE: 4-8 NOV 2013, HAMBURG / GERMANY

CALL FOR PAPERS:

2013 Conference on Opportunities and Challenges for the Modernization of HEIs in Guatemala

The »European and Latin American Conference on Climate Change Management (ELAC3M)« on »Opportunities and Challenges for the Modernization of High Education Institutions« takes place from 29-30 August 2013 in Antigua, Guatemala, organized by the Research and Transfer Centre on Climate Change at Universidad Galileo. The conference offers an international platform for the exchange of experiences and presentation of projects. Participants include researchers, practitioners, authorities, businesses, NGOs and further interested stakeholders. Submit your scientific abstracts in English or Spanish until 31 December 2012.

Preliminary programme and further information at: <http://www.cela-project.net/>



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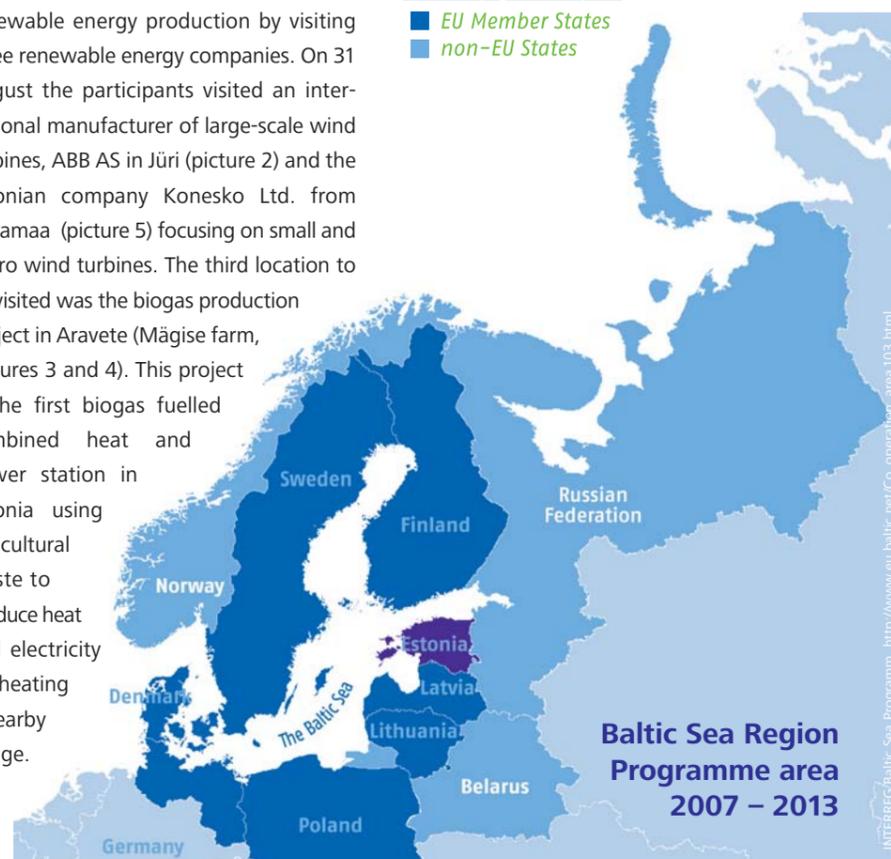
3RD INTERNATIONAL CAPACITY-BUILDING SEMINAR ON «OPPORTUNITIES AND CHALLENGES FOR CLIMATE-SMART ADAPTATION IN EUROPE AND LATIN AMERICA»

In Estonia, one the countries sharing the Baltic Sea coastline, climate change is considered more an opportunity than a threat to the region. Even though Latin American countries are more deeply affected by its consequences, the seminar was a valuable opportunity for knowledge transfer between the respective regions.

With more than 50 expert participants from authorities, enterprises, the academic sector, NGOs and the international CELA consortium, the seminar was a great success. A speaker from the Estonian Ministry of the Environment informed the audience about Estonia's current efforts in developing a national climate change adaptation strategy. Jan Karremans, Director Technical Assistance EUROCLIMA programme (picture 1), introduced the EU-Latin American initiative. Other lectures covered the outcomes of a recent EU research project, Promitheat-4, which dealt with the evaluation of mitigation and adaptation policy portfolios, and finally, a range of EU-funded climate change projects from the Baltic Sea Region as well as from Latin America were presented.

In the context of the joint project meeting and the seminar the attendants additionally benefitted from gaining insights into

renewable energy production by visiting three renewable energy companies. On 31 August the participants visited an international manufacturer of large-scale wind turbines, ABB AS in Jüri (picture 2) and the Estonian company Konesko Ltd. from Järvamaa (picture 5) focusing on small and micro wind turbines. The third location to be visited was the biogas production project in Aravete (Mägise farm, pictures 3 and 4). This project is the first biogas fuelled combined heat and power station in Estonia using agricultural waste to produce heat and electricity for heating a nearby village.



PILOT PROJECTS WITHIN WP3

Our partners are intensely working on their activities under WP3 »Research and Technology Transfer Centres«. These four pilot projects are currently being implemented:



Peru



Pontificia Universidad Católica del Perú (PUCP) is working on a pilot project which concentrates on monitoring of water quality and the water level along the Napo River (northeast Peru) using two technologies: Wireless Sensor Network (WSN) to get the environmental data and Wi-Fi based Long Distance (WiLD) to broadcast this information outside in real time. Within the project, the Rural Telecommunications Research Group (GTR) of PUCP will deploy an environmental network consisting of five meteorological stations strategically located in the Napo River for monitoring water quality as well as the water level.



Guatemala



Galileo University is currently realizing a pilot project concerning water level monitoring systems in highly risky rivers. As previous models installed in Guatemala still lack reliability and effectiveness, the current pilot project focuses on optimizing these existing systems. For this purpose the Centre for Research and Technology Transfer in Climate Change (CIT2C2) at Galileo University is improving the technical capabilities of SAT-GAL by adding new features to the new model to enhance climate change adaptation in the Coyolate basin (southern Guatemala).



Nicaragua



Nicaraguan University of Commercial Sciences (UCC) focuses on climate change adaptation in the field of water resources. The pilot project will be developed in collaboration with INITER, the Nicaraguan Territorial studies Institute (Instituto Nicaraguense de Estudios Territoriales) the National Water Authority – which is the government body in charge of water resource management in Nicaragua – and has a strategic focus on contributing to the national policy on water resources.



Bolivia



Universidad Católica Boliviana 's pilot project represents a Lifelong Learning Centre for sustainable agro forestry at the UBC university campus in Carmen Pampa (Coroico-Bolivia) By offering training material and building technical skills on the proper handling of fire in farming practices, the centre aims to contribute to decreasing the number of forest fires in buffer zones of protected areas and forest protection. The centre's facilities include physical spaces where practice techniques for the replacement of fire in agriculture, livestock and forestry are demonstrated.

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