

EDITORIAL

Dear Reader,

Welcome to GPEE's first newsletter! In this issue, we would like to introduce you to our German-Polish project »**German and Polish Energy Efficiency Project (GPEE)**«. The project will foster the promotion of sustainable approaches towards energy efficiency in buildings as tools towards climate protection in German and Polish cities by developing facade technology for zero emission buildings.

In this first newsletter, the project itself, its background and aims and some of its first activities will be explained. »By developing a facade technology for zero-emission buildings the project – which is built on a strong partnership – will contribute to the implementation of national and EU regulations to energy reduction especially in the building sector« says Prof. Dr. Walter Leal, Project Coordinator of GPEE.

The project has started in March 2013 and will be implemented in three years. During this time we will give you regular up-dates on the project's progress and findings.



Dr. Maren Adler



Kathrin Rath



Prof. Dr. Walter Leal

GPEE KICKED OFF IN SPRING 2013

On 18th and 19th March GPEE's kick-off meeting took place in Hamburg. 18 people from Poland, representing the two partner organizations, attended the meeting.

The purpose of the two days event was to get to know the organizations and institutions involved in the project and to present activities to be undertaken in frame of the project. A timeline how to implement the project was agreed. Furthermore, a study visit to the Ausbildungszentrum Bau (AZB) – a vocational training and competence centre for sustainable construction located in the north of Hamburg – was organized during the kick-off event.



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Enjoy reading!

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Federal Ministry
of Education
and Research

German-Polish
Energy Efficiency Project



INTRODUCING GPEE

THE PROJECT'S BACKGROUND

Energy efficiency and the development of innovative approaches towards renewable energy are high on top of Europe's scientific, economic and political agenda. In particular, energy efficiency means that energy losses seen in old and very old buildings, which make up the overwhelming majority of objects today, can be reduced, hence decreasing the waste of energy and the damage to the climate via unnecessary CO₂ emissions.

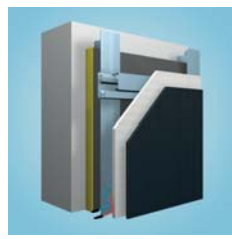
One of the major challenges to sustainable development in Germany, Poland and other countries of the European Union is how to promote energy efficiency, so as to allow those countries to meet their climate commitments and simultaneously maximize their economic potential of building. One of the means through which this challenge can be met is by fostering energy efficiency in buildings on the one hand, but also by the development of innovative approaches to facade technology on the other, both helping to reach the goal of »zero emission« buildings.

Following the requirement of Directive 2006/32/EC, the Government of Poland prepared the National Energy Efficiency Action Plan (NEEAP) aiming to achieve the indicative target of 9% energy savings in 2016 (4.5 Mtoe) and an intermediate target of 2% in 2010. German Government is actively pursuing the EU goal of reducing energy use by 20% by the year 2020. In both countries, considerable attention is being paid to the use of energy efficiency in buildings, by using innovative approaches and methods which combine architectural and engineering design, with principles of sustainable development.

It is due to the aforementioned facts that the collaboration outlined in this project is urgently needed.

WHAT IS THE PROJECT'S AIM?

The central focus of the work is to develop climate protection technologies to increase energy efficiency, by means of fostering energy efficiency in buildings and through the development of innovative approaches to facade technology, to achieve the goal of »zero-emission« buildings.



The main concept of the project refuses to the development of the design and technology of the novel facade which includes environmental-economic-social and technical elements. All the activities carried out in the project aim to decrease environmental impact of the final product, from reduction of emissions during the manufacturing process to reduction the impact of the product waste will have, however, not only environmental concern but also relevance for the economy of the society and the social situation for the citizens. The project pursue integration of environmental (ecological), social (fairness) and business (financial) objectives of the production and performance of the facade to achieve a balance between ecological and economical requirements.

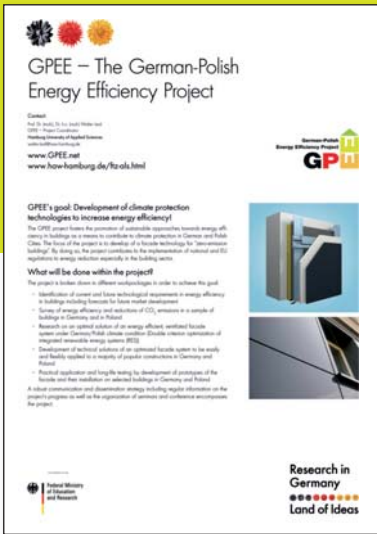
WHAT WILL BE DONE?

In frame of the project different activities will be carried out in order to achieve this aim:

-))) Identification of current and future technological requirements in energy efficiency in buildings including forecasts for future market development
-))) Survey of energy efficiency and reductions of CO₂ emissions in a sample of buildings in Germany and in Poland Research on an optimal solution of an energy efficient, ventilated facade system under German/ Polish climate condition (Double criterion optimization of integrated renewable energy systems (RES))
-))) Development of technical solutions of an optimized facade system to be easily and flexibly applied to a majority of popular constructions in Germany and Poland
-))) Practical application and long-life testing by development of prototypes of the facade and their installation on selected buildings in Germany and Poland

A robust communication and dissemination strategy including regular information on the project's progress as well as the organization of seminars and conference encompasses the project.





REPORT ON CURRENT AND FUTURE TECHNOLOGICAL REQUIREMENTS IN ENERGY EFFICIENCY READY

The report on identification of current and future technological requirements in energy efficiency in buildings including forecasts for future market development – issued by HAW Hamburg and Envidatec GmbH – is ready.

GPEE AT POLEKO 2013 IN POZNAŃ

The GPEE project is invited by the German Federal Ministry of Education and Research (BMBF) to participate at this year's POLEKO, Poland's largest international trade fair of environmental protection which takes place from 7th to 10th October in Poznań. During POLEKO 2012, 550 exhibitors from 21 countries came here to present the latest products, technologies and services from the field of environmental protection during the 4 days event. The trade fair attracted more than 21.000 visitors. This year even more visitors are expected to come because of the 25th jubilee edition of the trade fair.

Due to the invitation of the German Federal Ministry of Education and Research (BMBF), GPEE will be presented by the German partners HAW Hamburg and Envidatec GmbH but representatives from the Polish partners will join on 8th and 9th October as a further GPEE partner meeting and an overall status seminar organized by the BMBF will take place on these days. Information about the GPEE project will be available at the BMBF booth. Meetings with the representatives may be arranged.

**FOR MORE INFORMATION PLEASE GO TO:
[HTTP://POLEKO.MTP.PL/EN/](http://poleko.mtp.pl/en/)**



The report incorporates the assessment of the current situation and corresponding needs in Poland and Germany including legal, political, economic and technological conditions as well as an analysis of future trends in energy efficiency in both countries beyond 2020. The report also incorporates some recommendations with regard to future market development.

THE TOTAL REPORT IS AVAILABLE AT: [HTTP://WWW.GPEE.NET/](http://www.gpee.net/)

**For further information please contact:
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**Hamburg University of Applied Sciences
Faculty of Life Sciences**

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CONTACT

CALENDAR

»» **XIV POLSKA KONFERENCJA
NAUKOWO-TECHNICZNA**

ŁÓDŹ-SŁOK 18-20 CZERWCA 2013

Fizyka Budowli w Teorii i Praktyce

<http://www.fizykabud.nazwa.pl/konferencja.html>

»» **CISBAT 2013 –
INTERNATIONAL CONFERENCE**

4-6 September 2013
EPFL-Lausanne, Switzerland

Cleantech for Smart Cities & Buildings
from Nano to Urban Scale

<http://cisbat.epfl.ch/index.php>

»» **POLEKO 2013**

7-10 October 2013
Poznan, Poland

International Trade Fair of Environmental Protection

<http://poleko.mtp.pl/en/>

»» **GPEE specialists seminar on
energy efficiency technologies**

13th February 2014

Ausbildungszentrum Bau (AZB),
Hamburg, Germany

<http://www.gpee.net/>

THE GPEE PARTNERSHIP

The following partners form the GPEE partnership:



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Wissenschaften Hamburg
Hamburg University of Applied Sciences

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