

Press release

International symposium in Facade-Lab: Experts show the „way to solar-facade power station“

Großbeeren/Berlin, July 2012.

About 350 delegates from home and abroad followed the invitation of Priedemann Facade Consultants to a special symposium in Facade-Lab near Berlin in the middle of June. The main topic of the event was the development of intelligent facades, which makes natural resources usable. Focusing on this theme representatives of well known suppliers and renowned designers delivered presentations. An extensive exhibition of referral products and examples followed the programme. Yet another time, the great response to the event underlines the meaning of Facade-Lab as one of the internationally leading competence centres of facade technology.

Whether Middle East, India or China – the building boom in regions with extreme climate conditions demands intelligent solutions for resource-saving buildings. Experts have agreed: In future, facades using solar energy make an important contribution to that. In his introduction Wolfgang Priedemann, managing partner of Facade-Lab, remarked, that mainly storing - solutions, for the collected energy, is the need of hour to pace up the implementation of the technologies. Because only this way the solar-energy is usable efficiently and individually. Lars Anders, who completes the company management together with Wolfgang Feuerlein, emphasised the necessity of evaluating additional implementation costs involved in the context of „lifecycle-engineering“. A solar facade enables to draw values, which – seen from the corresponding point of view – also lead to economic viability of the whole investment, Anders remarked. The following presentations of the co-organizers focused on innovations dealing with the theme facade.

Introduced: concrete solutions

Schüco presented a concept for energetically self-sufficient buildings with the „Energy³ Building“. These are balanced systems of windows, doors and facades, which save energy, and solar solutions, which gain energy. The "Schüco Energy Manager" makes it possible to use the generated surplus of energy. It not only makes it possible to control and store energy but also regulates the own consumption through the interlinking of all components as well as the additional purchase of energy.

Wicona introduced as a result of a research project – coordinated by the institute for building construction of Stuttgart university – an element facade with integrated solar heat. Here a vacuum tube collector was constructively integrated in a facade system. The collector heats industrial water, which is used for heating or solar cooling. At the same time

reflectors protect against direct sunlight and care for a not (or little) glaring exposure of the interior.

A specifically developed system for „Solar Cooling“ was presented by the society of engineers **aeteba**. Also with this procedure warm water, produced by solar collectors, drives a thermo-dynamic process in an absorption cooling machine for the production of cold water in order to cool buildings. As a provider of complete solutions aeteba stands for a „plug & play-system“, which can easily be integrated in building equipment.

Onlyglass offered an excursion to the theme of media facade. Their display, in contrast to ordinary media walls, is not installed in front of the facade but is integrated in isolation glasses by means of LED-strings. Alongside with the creative advantages the system offers a high amount of transparency, so that the rooms behind the media facade are usable without any restrictions.

The following presentation held by **Hilti** dealt with the theme of „safe connection“ for example of solar panels. Besides the introduction of products such as the „low-ballast-system“ it was dealing with the interbranch collaboration of all partners who are involved in the construction.

How to adequately keep in mind new technological developments and energy-efficient solutions with "energy-contracting" was explained by the Berlin municipal utility **GASAG** WärmeService.

Finally Jan Felix Clostermann, partner of the architect's office **Spark** – with its headquarters in Peking, presented examples for „Sustainable Landmarks in China“.

On exhibition: products from and for practice

In addition to the presentations the Facade-Lab offered a display of innovative products and models all around the theme of facade and solar heat to the visitors. Besides the already mentioned exhibiting companies also isophon Glas, Lindner Fassaden, Guardian Flachglas as well as New Energy Force (N.E.F.), a planning and consulting firm that is specializing in the solar-thermic production of direct electricity, ranked among the exhibitors.

Further information about the contents of the event and the single presentations can be provided on request.

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The Facade-Lab in Großbeeren near Berlin



The leading team (from the left): Lars Anders, managing partner of priedemann building envelope consultants, Thorsten Siller, managing partner of priedemann Beijing Ltd., Martin Mumm, chief clerk of priedemann building envelope consultants in Mumbai, Wolfgang Priedemann, managing partner of priedemann building envelope consultants, Kaan Kuran, managing partner of priedemann Cephe Danışmanlığı Tic. Ltd. in Istanbul, Wolfgang Feuerlein, managing partner of priedemann building envelope consultants, Guan Wei, managing partner of priedemann Beijing Ltd. Not to be seen in the photo: Anees A. Backer, manager of priedemann FZCO in Dubai



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