Green Building Conference in Shenyang

Organizational Information about the Event

Date: May 20th, 2013 from 13:00 to 18:00
Venue: Kempinski Hotel Shenyang
Qing Nian Street 109, Shenyang, Liaoning Province, +86 24 2298 8988
Language: Chinese and English
Participants: ca. 80
Attendance Fee: free of charge for audience

Background of the Event

Around 30% to 40% of the natural resources are used in the construction and building industry in the industrialized countries. Half of the energy consumption is allotted to media consumption for building heating and cooling systems. On average about 30% of total energy consumption is used in the building sector. On worldwide average 40% of material consumption is shared by construction. In China this percentage is even higher. More than 40% of total energy consumption is directly or indirectly connected to construction and almost 1/3 of water consumption is allotted to the building area. Due to the economic and social development and the associated economic and structural changes, China is experiencing a tremendous construction boom and recorded double-digit growth. The real estate investments in 2010 (2011) increased by 33.2% (27.9%) compared to the previous year. Two billion square meters of new buildings will be constructed annually. Let alone the construction industry grew by 23.9% and to ca. 576 billions Euros totally during the first three quarters of 2010 compared to the same period of the previous year.

Through government efforts in the context of the Five-year Plans, a continuous economic growth, rising prosperity and migration movement to urban areas, China will become the worldwide largest market of the construction sector in 2020 and offer enormous potential related to sustainable construction. The World Bank estimates that already in 2015, 50% of all construction activities around the world will take place in China. A high amount of those construction activities will be realized with sustainable standards. In view of these changes, also the energy demand of the economy will increase enormously. The energy demand grew in the past partly faster than the gross domestic product. Until 2020, China, the world's largest energy producer and consumer after USA will quadruple its economic performance and only double the energy consumption in the same period.
However, in the present the current energy standard of the buildings is far away from what is technically and economically feasible and climate politically necessary. For example, each m² of building space, as compared to European averages, still consumes four times more energy. Since the main energy demand is consumed directly or indirectly in the construction sector, the Chinese government has also recognized the potential of the market and promotes energy-saving, resource-efficient and sustainable building projects in a greater extent. In addition to the objectives in the five-year plans and legislative changes, there are some measures taken by the central government, underlining the willingness of China to further promote the development in the green building area, and to open new market opportunities for European service providers of environmentally friendly technologies and services increasing energy efficiency and sustainability. For example, the Chinese Ministry of Construction and the Chinese Ministry of Finance give financial support of 45 to 80 CNY / m² (~ 5.50 to 9.80 € / m²) to the projects in the field of green building.

This offers great potential for European Engineers- and architects, real estate consulting, building material suppliers and providers of innovative technical solutions. The bottom line is that European know-how and technology solutions will still be required, because foreign investments and market entries in the field of energy efficiency, environmental technology and related strategy- and consulting activities are welcome. European Companies and technologies only have a chance in China if they use the European sustainability standard for buildings. European Know-How is very popular in China and has a higher significant value than other western know-how, like from the USA. Furthermore the European operation mode is seen as conscientious, accurate, confidential and exact. Therefore both parties are interested in transferring specific knowledge and green technologies to China.

Shenyang, the centre Northeast Chinas, is one of the fastest growing metropolis regions in China. In this region with a cold climate each year a huge area of living quarters is developed. In reference to thermal insulation this areas is only 34% aligned to energetic and climatic conditions. Up to 2010 in Shenyang 88,075,000 square meters energetic, sustainable buildings were built. Thereof about 71,000 square meters were used as living quarters and 17,075,000 square metres as public buildings. This shows Shenyang has a demand but still a certain awareness of energetic building improvement. Shenyang could take a pioneer function for other cities, especially for Northeast China. We need to accomplish pilot projects in green building to create the opportunity to build energetic, sustainable buildings in Shenyang and Northeast China. This workshop in connection with the EU SME Centre, Darmstadt University of Applied Sciences, the ETICS Quality Alliance and econet shall be a connecting factor.

Objectives of the Event
- Rising awareness in the field of Green Building amongst the policy makers and real estate developers in Shenyang, Liaoning Province;
- Influencing standards on construction, in particular sustainable construction to ensure high quality standards of construction in Shenyang.

**Organizer of the Event**

- German Industry and Commerce Beijing
- German Consulate General in Shenyang,
- econet China,
- EU SME Centre
- ETICS Quality Alliance,
- Professor Saldanha (Darmstadt University of Applied Sciences, Germany).

**Target Audience**

- local building authorities in Shenyang who formulate the building standards for Shenyang and Liaoning
- building companies and real estate developers in Shenyang who implement building measures
- urban planners who plan the cities energy efficiently
- architects and engineers in the area of construction
## Tentative Agenda of the Event

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**Location:** Kempinski Hotel Shenyang  
**Time:** 13:00 - 18:00

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| 13:00 – 13:10 | Welcome address  
N.N., *German Consulate General in Shenyang*                  |
| 13:10 – 13:20 | Welcome address  
N.N., *Building Council of City of Shenyang*                   |
| 13:20 – 13:40 | Market Development in Green Building in China  
Mr. Soeren Puerschel, *German Chamber of Commerce*               |
| 13:40 – 14:20 | Green Building Standards in Europe, Specific Focus on German  
Development in Recent Years  
Prof. Mike de Saldanha, *Darmstadt University of Applied Sciences* |
| 14:20 – 14:40 | Regulations Regarding Green Building in China  
N.N., *Building Council of City of Shenyang*                     |
| 14:40 – 15:10 | Opportunities for European SMEs in Green Building Sector  
N.N., *EU SME Centre*                                            |
| 15:10 – 15:30 | Coffee break and networking                                 |
| 15:30 – 15:50 | Effective Building Insulation for Cold Climate              |
| 15:50 – 16:10 | Green Building Regulations and Promotion Systems in Germany  
Mr. Adam Mutwil, *German Embassy, Beijing*                       |
| 16:10 – 16:40 | Green Building Labelings and Standards – Relevant Audit / Certification in China |
| 16:40 – 17:00 | Heating Systems for Low Energy Buildings                    |
| 17:00 – 17:20 | Case Study: the German-Chinese House in Shenyang  
Prof. Fu Yao, *Shenyang Jianzhu University*                      |
| 17:20 – 18:00 | Panel Discussion, Moderators:  
Mr. Soeren Puerschel, *German Chamber of Commerce*  
Prof. Mike de Saldanha, *Darmstadt University of Applied Sciences*  
Prof. Shi Tiemao, *Shenyang Jianzhu University*                   |