

# Newsletter

Upscaling and mainstreaming  
sustainable building practices  
in western China



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## Editorial

2017 was a busy but successful year for SusBuild project! We implemented four **trainings** on ESCOs and Construction SMEs, co-initiated **EU-China SME Dialogue** on Building Energy Efficiency Technologies, established **Western China Sustainable Building Alliance**, organised a series of **match-making between SMEs and banks**, developed a **handbook of building energy management** and collected various **good practices of ESCO financing** in Europe, organised an annual conference to **share our intermediate results**, and hosted a second **good practice tour to Europe**. All these would not have happened without joint efforts of our project team as well as the strong support from our associate partners, especially, MoHURD, local construction bureaus, and Econet China.

There is a lot to expect in the Year 2018! Among others, in order to further disseminate our project outcomes as well as good practices from China and Europe, we will host a **sustainable building road show** to five western Chinese cities in the first half of this year. We welcome European organisations to join us on the tour! In autumn, we will organise an **international conference of financing sustainable buildings** in Chongqing, where we would like to invite key actors from China, Europe, and international financial institutions to discuss about challenges and solutions of green financing in supporting sustainable building development and to explore opportunities for collaboration. Furthermore, later this year, we will look into **ultra low energy housing labelling** and initiate pilots.

We are looking forward to this exciting year and a fruitful collaboration with you! **Wish you all the best for 2018!**



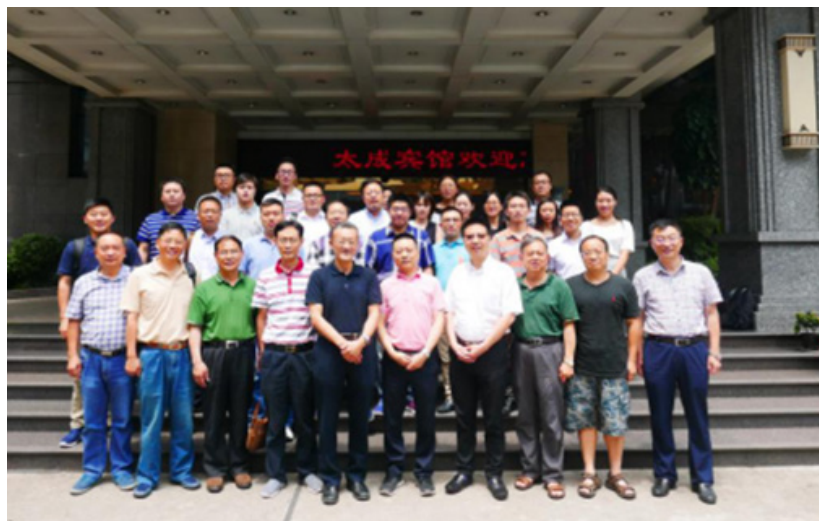
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## Western China Sustainable Building Alliance (WCSBA) was kicked off

Among others, SusBuild project aims to strengthen mutual learning among key stakeholders in western China regarding sustainable building development and to support the dissemination of stakeholder cooperation outcomes.

A successful example is the establishment of Western China Sustainable Building Alliance (WCSBA), led by China Association of Building Energy Efficiency (CABEE). The Alliance was formed and kicked-off in August 2017, in Chengdu. 15 SMEs, research institutes, associations, governmental think tanks from four western Chinese provinces (Chongqing, Yunnan, Sichuan, Tibet) are among the first members of WCSBA.



This diverse group will collaborate and work on research of green buildings technologies and relevant standards, promotion of new technologies and products, capacity building, consultant projects, publications, international collaborations and policy recommendations. In October 2017, they organized their first workshop to establish their development roadmap and to initiate the research on green building products and technologies suitable to mountainous areas.

## Annual Conference in Kunming

On 30th November, the SusBuild annual conference took place in Kunming. More than 50 SMEs and think tanks from Yunnan and Chongqing joined the conference.

In the 1<sup>st</sup> part of the conference the project progress and achievements were presented. In order to enhance mutual understanding, Susbuild team has conducted comparative studies of sustainable building development in China and Europe. Mr. Wu Yong from China Association of Building Energy Efficiency (CABEE) presented Green Building Labelling System in China and Europe. Further on, Chongqing and Yunnan local partners shared their local activities within SusBuild and their achievements. Besides, Western China Sustainable Building Alliance (WCSBA) was introduced to the public and SMEs.

During the 2<sup>nd</sup> part of the conference, national experts from Shanghai, Shenzhen, and Beijing were invited to share experiences about low energy building and districts. Mr. Xu Qiang from Shanghai Building Research Institute presented the technology roadmap of low energy buildings in Yangtze River basin. The Yangtze River basin is a sensible region from a climate point of view, with hot and humid summers and long transition seasons where no centralized heating is provided. Mr. Sun Pengcheng from China Construction Group continued with a presentation about nearly zero energy buildings in hot summer and cold winter climate in China and exemplified it with pilot projects. These two presentations are very relevant for SusBuild, as Chongqing has hot summer and cold winter climate. Further on, Mr. Guo Dongyu from East Carbon shared their Energy Performance Contract experience in green retrofit of public buildings and several pilot projects. Mr. Hao Bin from Shenzhen Building Research Institute concluded the session by broadening the perspective to sustainable districts and cities and by emphasizing on human-oriented planning and design.



## Good practice tour to Europe



In September 2017, SusBuild hosted a good practice tour for local stakeholders and partners to Europe. The experts visited Berlin and Vienna. The tour started in Berlin with the visit of several sustainable buildings and quarters rated by DGNB, including ALEA 101 – a Platinum rated mixed-use building, HumbodlthafenEins a Platinum rated Office and Administration Building, Sony Center – a DGNB Gold Building Quarters awarded mixed used city quarter.

Mr. Thomas Kraubitz from BuroHappold Engineering | Cities, presented the sustainable aspects of these three buildings in details. Mr Wald from Gesellschaft für Regelungstechnik Und Energieeinsparung mbH, the energy management system provider of ALEA 101, also introduced their energy management practice to ensure sustainable buildings. Afterwards, the group visited Efficiency House Plus - the experimental Plus Energy House piloted by BMUB.

In Vienna, Dr. Roland from the Institute of Waste Management of BOKU University presented the development of recycling and reuse of building wastes from both technology and management perspective. Important issues include resource conservation (maximum recycling) and reduction of environmental risks. Ms. Staudner added on with EU best practices in recycling of building wastes. Further on has been talked about EU technical guideline development of recycling and reuse of building wastes and its potential implications for China. During the discussion, the Chinese delegation and Austrian experts discussed the opportunities for co-operations in the field of waste technology and management, e.g. R&D of building waste recycling technology and potential co-operations on recycling and reuse of building wastes.

## Out now: SusBuild Handbook of Building Energy Management in Large Shopping Malls and Medium-Sized Hotels

Commercial buildings account for 11% and 4% of the total final energy demand in Europe and China, respectively. They are the major energy consumers with significant saving opportunities. An easy way to save energy is to set up an appropriate building energy management system. In Europe, it is estimated that energy management systems bring 37% for space heating, water heating and cooling/ventilation and 25% for lighting. However, there is generally a lack of awareness and understanding of the potential of energy management systems.

Energy management is a key component for SusBuild. The project team developed a handbook of Building Energy Management in Large Shopping Malls and Medium-sized Hotels. This handbook provides comprehensive knowledge and recommendations about building energy management systems and programs of commercial buildings. This handbook focuses on two types of commercial buildings companies most relevant for SMEs: large shopping malls and medium-sized hotels. Firstly, the different actor-constellation with its specific barriers and incentives are presented. Secondly, the handbook presents key steps of setting up a building energy management program. Thirdly, various technical aspects of a comprehensive building energy management system are presented in details and illustrated with good practice role in building examples. In addition, the handbook also includes a set of recommendation of energy management for small- and medium- scale buildings. While technologies play a key energy management, its adoption depends on the incentives of different stakeholders, which are addressed by various policies. Thus, the last part of the handbook presents the policy framework to address specific barriers and to push the investors and users to invest in an energy management system and to save energy.

To download the handbook, please visit our library at: <https://www.susbuild.eu/library/>

