

Newsletter

Upscaling and mainstreaming
sustainable building practices
in western China



CONTENT

International Forum of Financing
Sustainable Buildings

1

Two Training Books are out:

-Training Handbook: Sustainable
Construction

-Training Handbook for ESCOs:
Technologies and Management
Practice

2

Project Dissemination Tour
in Xi An and Zhang Ye

3

International Forum of Financing Sustainable Buildings

On the 15th of November 2018, The Wuppertal Institute for Climate, Environment and Energy - the leading organization of SusBuild will be hosting the International Forum of Financing Sustainable Buildings in Chongqing, China. This forum will gather key actors from China, Europe, and international financial institutions to discuss about challenges and solutions of green financing in supporting sustainable building.

The topics range from specific measures Chinese banks and other financial institutions have taken to mainstream sustainable buildings financing, experience, challenges and needs for accessing financing by the building sector, supportive mechanisms that bridge the gaps between the financial sector and the building sector, to the engagement of international development banks in financing sustainable buildings in China.

We welcome your participation. For more details and registration, please click the following link:

<https://www.susbuild.eu/news/09-2018-forum/>



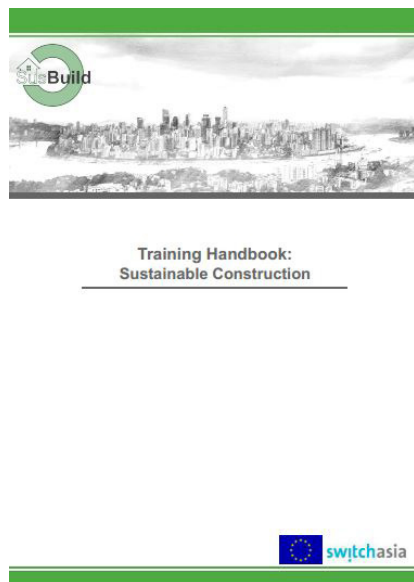
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Two Training Books are Out

Training Handbook: Sustainable Construction

The building sector is responsible for 40% of all energy consumed, 50% of all natural resources used and 60% of all waste produced in the world. A sustainable construction sector is thus a key player in being able to reducing global greenhouse gases as well as bringing about a more sustainable world.

The SusBuild project team developed a training handbook for Sustainable Construction. This handbook presents a holistic approach to achieve sustainability in building construction. Firstly, it presents European and other international standards related to sustainable construction. Secondly, the handbook dives into the analysis of the sustainable aspects of the construction phase and presents its environmental impacts, objectives and assessment criteria. Sustainable construction processes such as landscape, soil and water conservation; noise and dust control as well as sustainable resource use, material efficiency and on-site energy consumption are described in detail. A major part in improving the sustainability of a building is the choice of materials and technologies. Therefore, as a third main subject, the handbook considers the sustainable construction materials with additional good practice examples. The handbook continues with the topics of quality control and construction/demolition waste management and recycling as major key roles to achieving the sustainable goals on a building site. The training and education of workers, as an often overlooked factor in practice, is also touched upon with European good practice examples. Furthermore, the achievement of economic sustainability in the construction phase through sustainable building costs and cost reduction is presented. The handbook rounds up with a chapter about the organizational aspect of construction phases including the optimization of the sustainable building process and examples of useful tools and good practice.



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

Training Handbook for ESCOs: Technologies and Management Practice

Energy service companies (ESCOs) have played an important role in building energy renovation worldwide. In China, the ESCO industry has developed rapidly in the last 20 years. Many ESCOs are small and medium-sized enterprises (SMEs). Nonetheless, the development is rather uneven. Given their considerable high energy saving potential, industry energy conservation projects have caught a lot of attention. In more developed areas in China such as Guangzhou, ESCOs market in the building sector has developed well. Thus, the SusBuild team, in collaboration with South China University of Technology, developed a „Training Handbook for ESCOs: Technologies and Management Practice“.

Firstly, the Handbook introduces basic concepts, different business models of ESCOs and key national policies for ESCOs industry. Since ESCOs mostly work on energy renovation in public buildings, this sector is the focus of the handbook. Key technologies of energy renovation and case studies are presented. Besides, key procedures of bidding and setting up ESCO contracts as well as project implementation are explained in details. Furthermore, the handbook also addresses the major challenges for public building energy renovation and suggests potential solutions. Last but not least, international practice of ESCOs are introduced and analyzed.

The Handbook is currently released in Chinese. Its English summary will be published in the coming months.

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



Project Dissemination Tour in Xi An and Zhang Ye



In June, Susbuild co-hosted two dissemination conferences in Xi An and Zhang Ye and received a great deal of attention from the local SMEs and building institutions. Participants include relevant European and domestic organizations active in sustainable building development as well as local housing authorities, local building design institutes, local real developers, local construction companies, local building materials producers and building energy efficiency associations.

The dissemination conference in Xi An was divided into 3 sessions and looked at the Chinese and European experiences related to sustainable and low energy building design and planning, relevant standards such as Passive House, Plus Energy House and DGNB Green Building Standards, and last but not least at the building materials and technologies needed to achieve sustainable buildings.

The Xi An dialogue served as a platform to facilitate exchange between Chinese and European organisations including representatives from Shaanxi Yangling Tianyang UV Materials, STO, SIGA and HALFEN. The outcome of the experts' dialogue was that European building strategies and techniques cannot be imported one to one into the Chinese context. In fact, these must be adapted and the appropriate measures taken to ensure that the sustainable technologies be implemented correctly. Such aspects as quality in the construction stage and the holistic understanding of buildings within neighborhoods and cities were pointed out as key aspects of achieving a sustainable society.

On the 6th of June, the SusBuild team and the European companies visited Northwest Architecture Design and Research Institute of CHINA CONSTRUCTION. The experts from the institute introduced their experiences on sustainable building practices and, in particular, their future plan for upscaling sustainable building development. SusBuild project has presented its main achieved outputs and recommendations and how those could be adopted and adapted into the context of China. Both sides found the dialogue useful and have decided to enhance cooperations for demonstrating and mainstreaming sustainable building practices in western China.

Following up, the dissemination conference in Zhang Ye offered a series of relevant presentations on green construction and sustainable building development. SusBuild project has presented its successful learned experiences on upscaling sustainable building practices in Chongqing and Yunnan, which are highly relevant to Zhangye. Through discussions and exchanges, the conference has identified relevant key factors that Zhangye could take into account in order to move towards mainstreaming sustainable building development. Additionally, SusBuild expressed its interest to support the development of a sustainable building action plan and to facilitate Zhangye towards upscaling sustainable building practices.