

NEWSLETTER



1. THE PROJECT

China's unprecedented socio-economic growth drives expansion in the building sector. Building energy consumption has increased by 40% since 1990. The building sector accounts for about 30% of the final energy consumption in China. Thus, it plays a vital role in China's pursuit of a more resource efficient and low carbon pathway.

The four-year project SusBuild aims to **foster sustainable building practices among MSMEs in Chongqing City and Yunnan province** with a replication potential for the western China, where sustainable building development is still at an early stage.

To achieve the objectives, the project takes an **integrative approach** through building capacity and providing technical support, raising awareness on energy saving, supporting and strengthening capacity of financial institutions, providing recommendations for key policies, improving business networks among MSMEs, and encouraging EU-China dialogues on sustainable buildings.



CONTENT

1. The Project
2. Kick-off sustainable building practices in western China
3. Our first Pilot!
4. Sustainable Building Development in Chongqing and Yunnan

WEBSITE

www.susbuild.eu

THE CONSORTIUM



**Wuppertal
Institut**

The Wuppertal Institute (WI) is a leading think tank on sustainable development in Europe.

It has been providing policy and technical advice on energy efficiency in buildings and SCP to German government and European Commission for a long time and has worked on building and urban development projects in China in the last decade.



China Association of Building Energy Efficiency (CABEE) is working under the responsibility of Ministry of Housing and Urban & Rural Development (MoHURD) with more than 5000 members covering the whole building supply chain and extensive network with other key stakeholders. It is also a think tank of MoHURD.

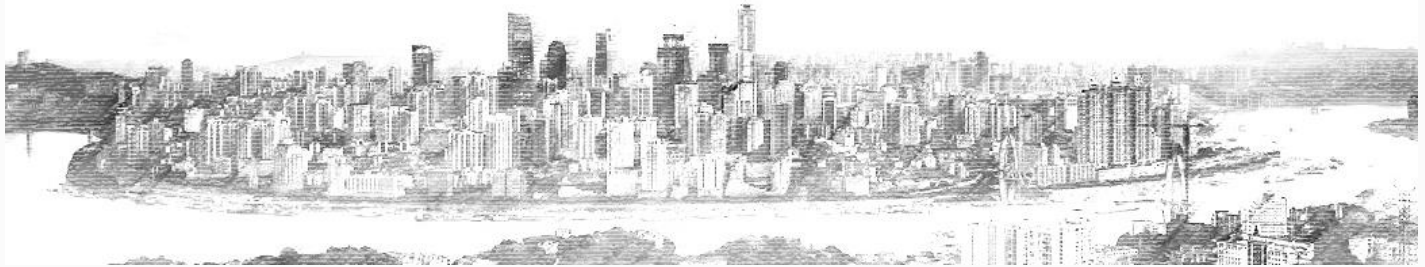


The University of Civil Engineering and Architecture of Beijing (BUCEA) is a leading university in the fields of civil engineering and building. It has more than 75 years of experience in implementing and managing local, national and international building and infrastructure projects and established a huge network in the field of urban environmental infrastructure and building.



Chongqing Association of Building Energy Efficiency (CQBEEA), working under the responsibility of Chongqing Municipal Department of Housing and Urban & Rural Development, is a local network facility of low energy building development with more than 400 members covering the whole building supply chain. CQBEEA's main activities include capacity building, networking, dissemination of innovations, policy recommendations for sustainable building development at local level.

NEWSLETTER



Chongqing Economic Promotional Centre for Building Material Industry (CEPCBM) works under Chongqing Municipal Industrial and Information Technology Development Commission. Its main tasks include supporting formulation and implementation of building materials as well as improving capacity of building materials producers and retailers in Chongqing.



云南建筑技术发展中心
Yunnan Building Technology Development Center

Yunnan Development Centre for Building Technology (YNBTDTC),

working directly under Yunnan Provincial Department of Housing and Urban & Rural development, is a public institute which promotes and disseminates innovative and sustainable building technologies and practices in Yunnan Province. It is also the provincial network facility of building supply chain in Yunnan Province.

Yunnan Provincial Engineering Quality Supervision and Management Station (YNEQS) is a public institute. Its core work includes supervising building quality, monitoring building energy performance and providing information to various stakeholders in the building sector, issuing certification for green buildings on behalf of Yunnan Provincial Department of Housing and Urban & Rural Development (YNHURD), and managing provincial green building funds and building energy efficiency fund.



Bank of Chongqing (BOCQ) is a regional bank, which is active particularly in western China and has regional branch-banks almost in all provinces of China. Its core business of BOCQ is supporting SMEs to access to financing.

Associate Partners:

Government:

Ministry of Housing and Urban & Rural Development (MoHURD)

Yunnan Provincial Department of Housing and Urban & Rural Development (YNHURD) Chongqing

Municipal Department of Housing and Urban & Rural Development (CQHURD)

Local Associations:

Yunnan Banking Association (YNBA)

Chongqing Banking Association (CQBA)

European Organisations:



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



econet china
Greentech made in Germany 德國綠網投資科技



NEWSLETTER



2. KICK-OFF sustainable building practices in western China

On 12-13 April, 2016, “SusBuild: Up-scaling and mainstreaming sustainable building practices in western China” was kicked off in Qijiang District, Chongqing.

The two-day conference aimed to officially start the SusBuild project and to initiate EU-China dialogues on various aspects of sustainable buildings. It brought together 280 participants, which included decision-makers from national and local governments, enterprises and provincial associations from all provinces in western China, and German organisations.



OPENING CEREMONY

Key governmental stakeholders at both national and local level were invited to the opening ceremony on 12 April. These include:

- **Mr. Chen Yiming**, the chief engineer (vice Minister) of the Ministry of Housing and Urban-Rural Development (MOHURD);
- **Mr. Ni Jiangbo**, the deputy director of Department for Buildings Energy, Science and Technology of MOHURD;
- **Mr. Wu Bo**, deputy director of Chongqing Municipal Committee of Housing and Urban & Rural Development;
- **Ms. Pan Yiqin**, the general secretary of CPC of District Qijiang in Chongqing.



Mr. Wu Yong, the director of China Association of Building Energy Efficiency, moderated the opening ceremony.

Mr. Chen Yiming acknowledged the importance of the SusBuild project for sustainable building development in western China and beyond due to its following features:

- The project content matches the current needs of the building sector in China;
- The project case study regions, i.e. Chongqing and Yunnan, are well selected;
- The timing of the project is very good, which is fully in line with MoHURD's priority of scaling up sustainable building practices in the whole country.

He concluded that MoHURD will provide all the necessary support to the SusBuild project implementation and will take the experiences and outputs to be achieved by the SusBuild project into MoHURD's policies and strategies of sustainable building development.

His speech was followed by **Ms. Pan Yiqin**. She welcomed that SusBuild project selected a project in District Qijiang as one pilot of sustainable building materials production. In fact, the district aims to be the sustainable building materials production centre in western China.

Finally, **Mr. Wu Bo** stated that the local government will actively participate in and strongly support the SusBuild project implementation as an associate partner. He hopes that SusBuild project will provide recommendations to local building development.

NEWSLETTER



KICK-OFF CONFERENCE

The opening ceremony was followed by various presentations delivered by key stakeholders from national and local level in China and from Europe. It started with the presentation of progress, challenges, and perspective of sustainable buildings in China and Europe by officials and experts from national and local level as well as European experts. This was followed by three thematic sessions: sustainable building materials and components, sustainable building design and construction, and energy management in buildings. In these sessions, experts from both Chinese and European organisations shared valuable insights.

All presentations can be found at: www.susbuild.eu

3. OUR FIRST PILOT

Chongqing Energy Conservation and Ecological Industry Park(CQECEIP) was selected as sustainable building materials pilot of EU SWITCH-ASIA SusBuild project.

CQECEIP is located in Qijiang District, Chongqing. In total, about 67 ha are planned for the development of production facilities. It is selected as the first industry modernisation pilot and innovative R&D organisation by Chongqing government and as „green building industry park pilot in Southwest China“ by central government. At least 80% of facility buildings will be built through prefabricated steel structures.



The CQECEIP project is led by Chongqing Building Energy Efficiency Association(CQBEEA), a local partner of SusBuild project. CQECEIP accommodates various excellent member companies of CQBEEA and aims to establish an industry cluster of sustainable building materials, including R&D, design, production, and sale.



4. SUSTAINABLE BUILDING DEVELOPMENT IN YUNNAN AND CHONGQING

Yunnan Province has started to mainstream building energy efficiency and green buildings since 2011. Nonetheless, in the last five years, various local regulations have been formulated to foster energy efficiency, green buildings and integration of renewables, especially, photovoltaics. Until the end of 2015, 46 projects with a total floor area of 7.3 million m² have been approved, including 4.6 million m² of residential buildings and 2.7 million m² of public and commercial buildings.

For the year 2020, Yunnan government has set up ambitious goals for the building sector in order to achieve a sustainable growth with a lesser impact on climate and resources. For the temperate areas, all new constructions are expected to be low energy buildings, and for other climate zones these should reach up to 80%. Additionally, the share of green buildings is expected to be more than 40% of the total.

In order to achieve these target numbers, the government planned to follow several measures:

- to initiate a significant amount of pilot projects of ultra-low energy buildings and zero energy buildings;
- to apply passive technologies as a core condition for low energy and green buildings;
- to promote green building and sustainable materials;
- to significantly increase the application of PC in low energy buildings.

NEWSLETTER



However, due to the unique character of the Yunnan province, the area encounters specific challenges on its way to achieve 2020 targets. Up to 86% of the province belongs to the temperate climate, which is different from other regions in China and cannot follow others' approach. Yunnan shall find develop its "tailored" approach specifically for the climate.

Another feature of the province is its cultural diversity fostered by the ethnic minorities living there; all with specific ways of living and diverse adopted styles in building construction. Thus, sustainable building development in Yunnan shall take into account these special features and explore synergies with existing sustainable building practices.

Chongqing has initiated ways and means in order to achieve sustainable goals in the building sector. By the end of 2015, the share of green buildings in new constructions reached 21.6%. Recent quantifications revealed a total of 31 million m² of green building floor area and 38 million m² of Green-Eco residential communities in Chongqing. The city hosts up to 30 green building industry parks and one of the first Green-Eco districts in China.

Furthermore, the 2020 targets of Chongqing encourage a further positive development of sustainable building practices. For the upcoming years, the municipality aims to increase the share of green buildings in the new constructions up to 50%, to build 1700 m² of new advanced green buildings, to ensure 60% use of green building materials in new constructions and to add 20 more new green and energy efficient buildings and industry parks to the existent ones.

One of the adopted measures for fostering green buildings in Chongqing is to develop Green Eco Residential Communities. Until the end of 2015, in total 181 projects with 50 million m² were approved, with the participation of more than 120 developers and 50 design institutes. The expected positive outcomes of these practices were energy savings (up to 250 million KWh), CO₂ reduction (1,62 millionT) and financial benefits (of 12 billion Yuan output value). As a second measure, fiscal incentives and regulatory instruments have been adopted. Participating enterprises are benefiting from 10% reduction of tax and additional financial subsidies are offered for advanced green buildings.



Additionally, Chongqing has issued a local code of green buildings. In specific districts, all new buildings are required to reach a green building standard.

Important steps have been made towards Chongqing's transition towards sustainability in the construction sector, however, both regulatory instrument and fiscal incentives need to be improved at national and local level to foster the uptake of green building practices.

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