

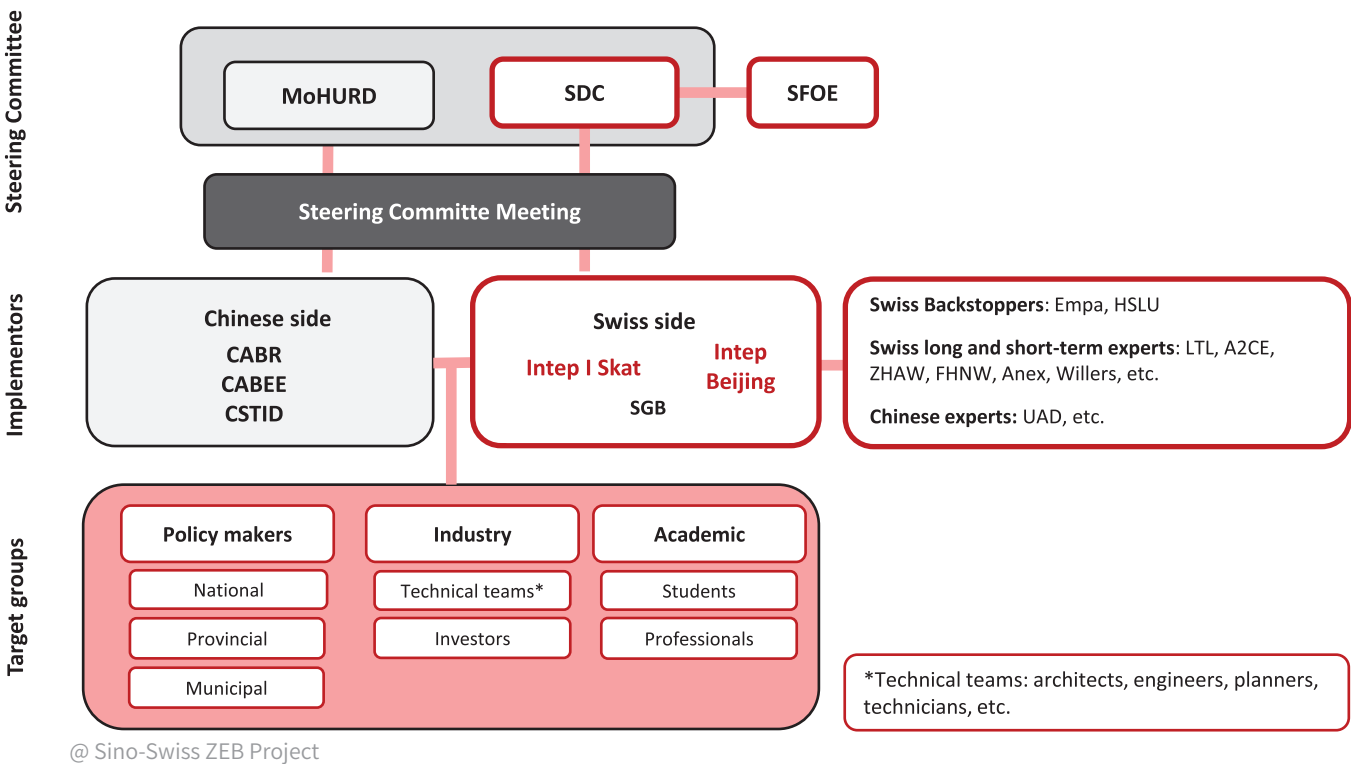
PROJECT BACKGROUND

To address global climate change and enhance cooperation between China and Switzerland in reducing carbon emissions in the construction industry, the Ministry of Housing and Urban-Rural Development (MoHURD) of the People's Republic of China and the Swiss Federal Ministry of Foreign Affairs (FDFA) signed a Memorandum of Understanding on November 24th, 2020. As part of this agreement, the Swiss Agency for Development Cooperation (SDC) initiated and funded the Sino-Swiss Zero Emissions Building (ZEB) project. The project's objective is to support China in formulating technical standards for zero-carbon buildings and long-term roadmaps for reducing carbon emissions in the construction industry by leveraging Swiss expertise and technology. The project supports zero-carbon demonstration projects in four climate zones and conducts capacity-building activities for policy makers, professionals from industry and academia to promote carbon-neutral development of China's construction sector.



Switzerland and China sign MOU on energy efficiency in buildings. ©Swiss Embassy

PROJECT SETUP



- **Project duration**
15. March 2021 – 30. November 2025
- **Project impact**
Reduce CO2 emissions in China’s building sector

SINO-SWISS ZERO EMISSION BUILDING PROJECT

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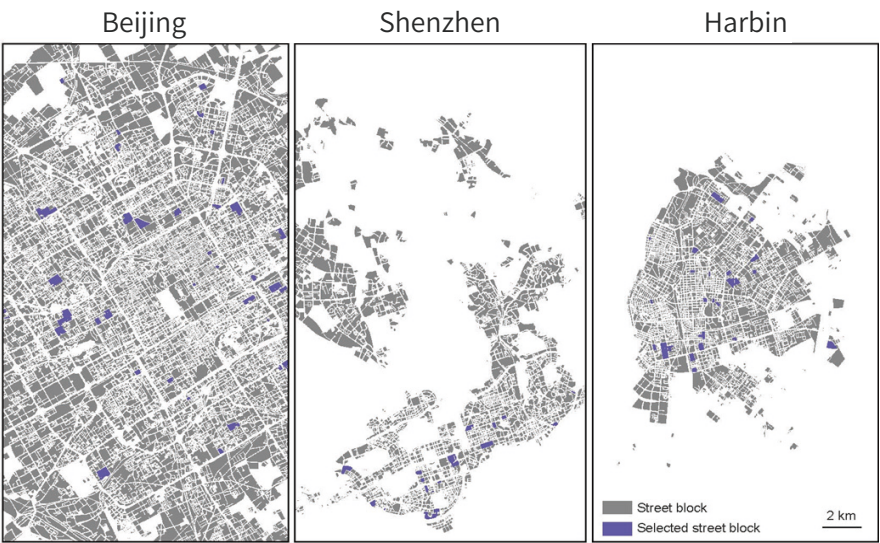
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ZEB STANDARDS

- ZEB standards draft commented by Swiss experts
- Sino-Swiss collaboration to scientifically calculate the impact of the technical standard of zero carbon buildings
- National and provincial standard development

At present, the draft of the national "Technical standard of zero carbon building" and provincial standards has been completed through the joint efforts of Sino-Swiss experts and is in the final stage of preparation. The content of the standard covers the definition of zero carbon buildings and districts, boundaries, technical indicators and calculation methods. In addition, ambitious investors and planners can aim for net-zero emission projects throughout the whole life cycle.



ZEB DEMONSTRATION PROJECTS



Study Tourism Base Project of Rural Revitalization and Bee Research, Liuba County, Shaanxi Province



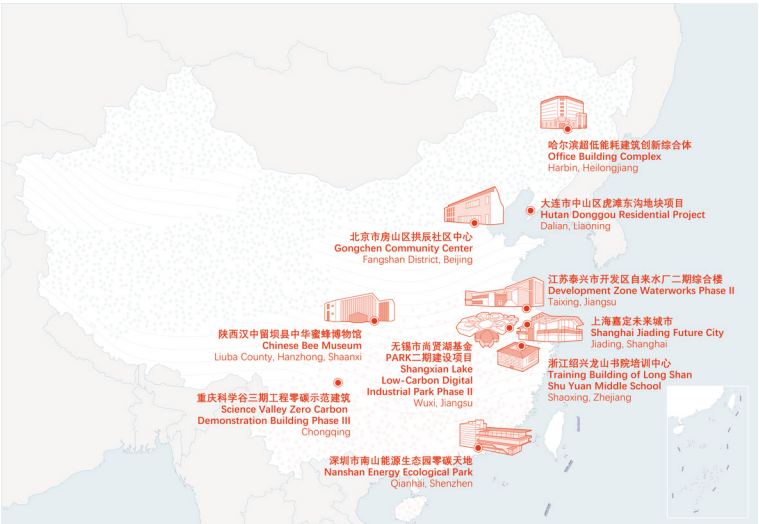
Gongchen Community Center, Fangshan District, Beijing



Shangxian Lake Low-Carbon Digital Park Phase II, Wuxi, Jiangsu Province



Training Building of Long Shan Shu Yuan Middle School, Shaoxing, Zhejiang Province



The 8 ZEB demonstration projects are located in four typical climate zones. @ Sino-Swiss ZEB project



Office Building Complex Renovation, Harbin, Heilongjiang Province



Taixing Development Zone Waterworks Phase II, Taixing, Jiangsu Province



Shanghai Jiading Future City, Jiading District, Shanghai



Shenzhen Nanshan Energy Ecological Park Zero Carbon World, Shenzhen

Over the past three years, the Sino-Swiss Zero Emission Building implementation team has provided technical support to the Chinese partners from the 8-10 demonstration projects across four climate zones in China to reach ZEB standard. The team has provided technical support to the Chinese team for all phases from planning and designing, to construction, operation, and reuse of building material. In close collaboration with the demo project teams, exchanges were facilitated about Swiss technologies and experiences. Swiss experts conducted on-site visits and hold seminars, which resulted in consulting reports.

CAPACITY BUILDING

The Sino-Swiss Zero Emission Building team has three core partners - policy makers, professionals from industry and academia. For each group, different capacity building activities were organized and facilitated, including high-level dialogues, webinar series (ZEB Talks), and a remote course for the national mayors' training institute.

In addition, the project team has been actively working with 13 top universities from China.



Achievements of the Sino-Swiss Zero Emission Building Project in capacity building and building a communication platform between China and Switzerland. @ Sino-Swiss ZEB project, Chinaaasc.