

(2) Green Building Design and Technological Challenges of Eco Skyscraper in China

Session Organiser: Shanghai Research Institute of Building Sciences

SESSION OUTLINE

According to the global tall building database of the CTBUH, around half of the Top 10 completed skyscrapers in the world are located in China, including Shanghai Tower (Shanghai, 632m), Ping An Finance Center (Shenzhen, 599m), and Guangzhou CTF Finance Centre (Guangzhou, 530m), etc. The design, construction, and management of super skyscraper bring a unique challenge to the green building development. The session will start with the discussion on the development of evaluation standard for the green skyscraper buildings in China and extend to the energy-saving strategies focusing on the low-grade energy bus in the HVAC system. Performance enhancement of the green skyscraper buildings is one of the key focus areas. Finally, the session will present a business case study on the green design features and facility management of the tallest building in China – Shanghai Tower.

SESSION CHAIR

IXU Qiang, Chief Engineer, Shanghai Research Institute of Building Sciences (Group) Co., Ltd.

SPEAKERS AND PRESENTATION TOPICS

- 1. Evaluation of Green Skyscraper Buildings in China**
SONG Ling, Deputy Director, Center for Science and Technology & Industrialization Development, Ministry of Housing and Urban-Rural Development of the P.R. China (MOHURD)
- 2. Energy Saving Potential of Air-conditioning System with Low-Grade Energy Bus in Skyscrapers**
LI Xianting, Professor, School of Architecture, Tsinghua University
- 3. In Pursuit of Excellence: Sustainable High-performance Skyscrapers**
ZHANG Bolun, Director, East China Architectural Design and Research Institute
- 4. Green Design and Facility Management Systems in Shanghai Tower**
YANG Jianrong, Deputy Director, Shanghai Research Institute of Building Sciences (SRIBS)