

# 北京中央電視台總部大樓之設計與興建

## The Design and Construction of CCTV HQs in Beijing

**Date and Time:** 10:00AM-11:30AM, 4 February 2015

**Venue:** National Center for Research on Earthquake Engineering  
200, Section 3, Xinhai Road, Taipei, Taiwan  
台北市辛亥路三段 200 號，國家地震工程研究中心

**Speaker:** Ir. Dr. Goman Ho PhD, FHKIE, FHKISC, MStructE, MASCE, 1RSE-PRC  
Ove Arup and Partners Hong Kong Ltd

### **Synopsis**

The entire CCTV development has a site area of 187,000m<sup>2</sup> and will provide a total of 550,000m<sup>2</sup> gross floor area. The estimated construction cost is around 5bn RMB (or \$US600M). The 450,000m<sup>2</sup>, 234m tall, CCTV building consists of a nine-storey 'Base' and three -storey basement, two leaning Towers that slope at 6° in each direction, and a nine to 13-storey 'Overhang', suspended 36 storeys in the air, all combining to form a 'continuous tube'. Viewed in other terms, the total building form can be seen as four distinct volumes, two of them leaning towards each other from opposite corners of the site, and joined at the top and bottom by the other two, both horizontal and with opposite 90° angles in their middles. Assuming the overhang can be bent up, it becomes twin towers with each tower in approximately 300m tall.

The structural form of the two leaning Towers are started by fully braced at four sizes for both strength and stiffness and to deliver loads to the foundations to the Base. In addition to the cores, the floor plates of the Towers take support from many vertical columns.

This technical meeting will go through from concept design stage to the completion of construction of CCTV tower.

### **About Speaker**

Ir Dr Goman Ho, an Arup Fellow, a Director and the global leader for Tall Buildings Skills Network of Arup Group. He is also an adjunct professor of Hong Kong Polytechnic University. He has been working in Arup since his postgraduate study in Hong Kong Polytechnic University in 1992. He was involved in many tall buildings such as 300m tall Cheung Kong Center in HK, 700,000m<sup>2</sup> Beijing Fortune Plaza mixed development, the tallest building in Beijing - 330m China World Trade Center, CCTV, Beijing Capital International Airport T3, National Stadium, Water Cube, BJ Exhibition and Conference Center, ETON Dalian Center and Beijing South Station, Taipei Performance Art Center, Taipei Pop Music Center etc. Besides the above mentioned finished project, the 600m tall Goldin Finance Tianjin 117 project is now finished up to 500m and 528m Z15 is now having the core finished up to ground floor. He is currently responsible for a twin tower project in Shanghai, a 460m tower in NingBo in China and a 460m tower in Ho Chi Minh City in Vietnam.

### **Enquiries and registration**

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