### Facts

<table>
<thead>
<tr>
<th>Official Name</th>
<th>International Commerce Centre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Complex</td>
<td>Union Square</td>
</tr>
<tr>
<td>Other Names</td>
<td>ICC</td>
</tr>
<tr>
<td>Structure Type</td>
<td>Building</td>
</tr>
<tr>
<td>Status</td>
<td>Completed</td>
</tr>
<tr>
<td>Country</td>
<td>China</td>
</tr>
<tr>
<td>City</td>
<td>Hong Kong</td>
</tr>
<tr>
<td>Street Address &amp; Map</td>
<td>1 Austin Road West, Kowloon</td>
</tr>
<tr>
<td>Building Function</td>
<td>hotel / office</td>
</tr>
<tr>
<td>Structural Material</td>
<td>composite</td>
</tr>
<tr>
<td></td>
<td>• Core: Reinforced Concrete</td>
</tr>
<tr>
<td></td>
<td>• Columns: Reinforced Concrete</td>
</tr>
<tr>
<td></td>
<td>• Floor Spanning: Steel</td>
</tr>
<tr>
<td>Proposed</td>
<td>2000</td>
</tr>
<tr>
<td>Construction Start</td>
<td>2002</td>
</tr>
<tr>
<td>Completion</td>
<td>2010</td>
</tr>
<tr>
<td>Official Website</td>
<td>International Commerce Centre</td>
</tr>
</tbody>
</table>

### Companies Involved

**Developer**
- Sun Hung Kai Properties Limited

**Architect**
- Kohn Pedersen Fox Associates
- Wong & Ouyang

**Structural Engineer**
- Arup

**MEP Engineer**
- J. Roger Preston Limited

**Project Manager**
- J. Roger Preston Limited
- Harbour Vantage

**Main Contractor**
- China State Construction Engineering Corporation; Sanfield Building Contractors Limited

**Other Consultant**
- Artist: Hong Kong Arts Development Council
- Cost: WT Partnership
- Façade: Meinhardt
- Fire: Arup
- Interiors: LTW Designworks
- Landscape: Belt Collins & Associates
- Lighting: Lighting Planners Associates
- Marketing: Wordsearch
- Quantity Surveyor: WT Partnership
- Vertical Transportation: Lerch Bates
- Way Finding: Atelier Pacific Limited
- Wind: Cermak Peterka Petersen (CPP), Inc.; RWDI

**Material Supplier**
- Cladding: Permasteelisa Group; ALT Limited

### Height

- **Occupied**: 468.8 m / 1,538 ft
- **Architectural**: 484 m / 1,588 ft
- **To Tip**: 484 m / 1,588 ft
- **Observatory**: 387.8 m / 1,272 ft

### Floors

- **Above Ground**: 108 floors
- **Below Ground**: 4 floors

### Elevators

- **# of Elevators**: 83
- **Top Elevator Speed**: 9 m/s

### Tower GFA

- **Gross Floor Area**: 274,064 m² / 2,950,000 ft²

### Hotel Rooms

- **# of Hotel Rooms**: 312

### Parking Spaces

- **# of Parking Spaces**: 1,700
About International Commerce Centre

International Commerce Centre houses some of the most prominent financial institutions in the world. The building is routinely recognized as a paragon of good management, from a commercial, environmental, and community standpoint.

The level of energy efficiency achieved by the International Commerce Centre is unusual for a tall building, and significant investments have been made in improving energy performance over the years, especially since adapting the ISO 50001 Energy Management Systems certification in 2011. This commitment was followed by more than 50 advanced energy-saving measures. The Energy Utilization Index (EUI) of International Commerce Centre's energy performance in 2013 was 157.3 kWh/sqm, placing it among the top 10 percent of energy-efficient commercial buildings. A computerized building management system manages and controls the energy use in the building. The total energy consumption of the project was reduced from 56.3 million kWh in 2012 to 49.9 million kWh in 2013, a reduction of 6.4 million kWh, or 11 percent.

The air-conditioning system is a high-voltage water-cooled chiller system with a centrifugal separator enhancing the chiller's coefficient of performance (COP), resulting in an 8 percent reduction in energy consumption. The system's original corrugated aluminum separator box filter was replaced with a more advanced mini-pleat filter, reducing system pressure by 25 percent and consequently reducing energy consumption as well. Management has carried out a life cycle testing program with Hong Kong Polytechnic University, resulting in energy optimization and significant savings of 7 million kWh from 2011 through 2013. International Commerce Centre has saved an estimated HK$7 million (US$900,000) annually through this program.

Other energy-saving features include a low-emission curtain wall, natural lighting of the atrium, the wide adoption of energy-efficient lighting fixtures such as LEDs and T5 fittings, and double-decker elevators with destination control and power regeneration functions. Simple actions such as deactivating elevators during low-use periods are equally important. Through these investments, the building reduced CO2 emissions by 4.2 million kilograms in 2013.

The building's waste-management program has increased its collection of recyclables from 94,000 kilograms in 2013 to 101,714 kilograms in 2013, an 8.21 percent increase. Participation in the recycling program increased from 60 percent of occupants in 2010 to 90 percent in 2013. Recycling items collected have expanded to include waste paper, plastic and aluminum cans, glass bottles, food waste, chemical waste, and coffee grounds, as well as creative reuse of festival decoration items.

Of course, a building's initial successes in performance-based design can be undone if occupants are not well-trained and motivated to continue imbuing their daily activities with these principles. The key to achieving high performance lies in International Commerce Centre's intensive, involved relationship with its tenants. Each tenant is assigned its own account manager, who is in frequent contact with the tenant and learns about their requirements in detail. A 24/7 helpdesk is available for tenants, regardless of where they are in the world.

To ensure ongoing "greenkeeping" by occupants and the wider community, International Commerce Centre's management extended its food-waste collection program to the surrounding community, and conducted more than 300 sharing events to promote green principles. The "International Commerce Centre Celsius 26" plan was launched in 2012, maintaining the building's common areas at 26 degrees C, warmer than typical engineering standards, but still comfortable. Apart from the base building's energy audit, International Commerce Centre provides free energy audits for its tenants upon request.

By using the helpdesk and computerized building systems as a data-collection and dissemination tool, combined with a high level of direct training, interaction and support of tenants, a "virtuous circle" is formed, in which tenants are motivated to adhere to energy guidelines and to contribute data, which is then reported back to tenants and management.

International Commerce Centre

CTBUH Initiatives

Top Company Rankings: The World’s 100 Tallest Buildings
13 Oct 2016 – CTBUH Research

Inaugural Steering Committee Meetings in All Three Cities
10-20 Jan 2016 – Event Report

Hong Kong Regional Tour Report
20 Sep 2014 – Tour Report

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Research Papers

How Much Development Can a Rail Station Lead? A Case Study

Videos

ICC – Rising High for the Future of Hong Kong

Skyscrapers in Hong Kong
20 Oct 2016 – Eric Ma, Hong Kong Special Administrative Region

CTF Guangzhou - Efficiency in Mixed-Use Supertall
19 Oct 2016 – Florence Chan, Kohn Pedersen Fox Associates

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CTBUH Awards

Performance Award 2014 Winner

• Construction Hoists: Alimak Hek
• Elevator: Schindler; Sematic S.r.l.
• Façade Maintenance: Cochrane Gomyl
• Fire Proofing: Grace Construction Products
• Paint/Coating: AkzoNobel
• Sealants: Dow Corning Corporation; Momentive
• Steel: China Construction Steel Structure Corporation; China Construction Steel Structure Corporation

Florence Chan, Kohn Pedersen Fox Associates
Eric Ma, Hong Kong Special Administrative Region
Tony Tang, Sun Hung Kai Properties Limited
Other Building Facts

The Ozone Bar on the 108th floor is the world's highest cocktail lounge in a building at 468.8 m.

The world's highest swimming pool in a building is located on the 108th floor.