



CTBUH DATA HANDBOOK 2023

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2023 EDITION



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INTRODUCTION

Tall Building Criteria	4
Trends in Construction	6

THE STATE OF TALL BUILDING CONSTRUCTION

The Return of Tall	10	Geographic Diversity	26
New Records	14	By Function	28
Tall & Urban News	16	By Material	30
Regional Trends	20	2022: The 10 Tallest Buildings	32
National Trends	22	The World's 100 Tallest Buildings	36
City Trends	24		

TRENDS IN TALL AND URBAN

Tall Building Forecast	46	Map of the 100 Tallest Cities	80
Long-Term Building Outlook	52	Long-Term City Outlook	82
Future Innovative Projects	56		
The World's 100 Tallest Cities	70		
The 10 Tallest Cities	74		

CTBUH RESOURCES

Tall Building Database Guide	86
CTBUH Awards Categories	92

Tall Building Criteria

Height

The CTBUH developed the international standards for measuring and defining tall buildings. Tall buildings are defined subjectively, considered against context and size. There are primarily three types of height measured in tall buildings: **height to architectural top**, **height to highest occupied floor**, and **height to tip**. The tallest buildings are classed into two additional sub-groups: **supertall** buildings are 300 meters (984 feet) or taller, and **megatall** buildings are 600 meters (1,968 feet) or taller.

HEIGHT: TO TIP

527 m / 1,728 ft

Willis Tower
Chicago, USA

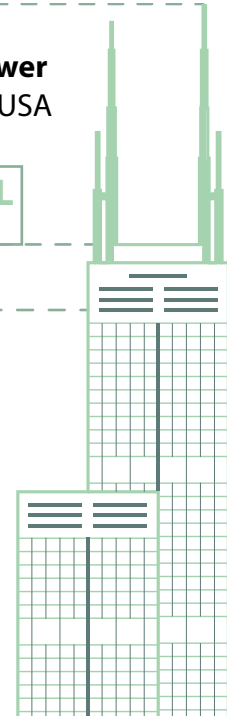
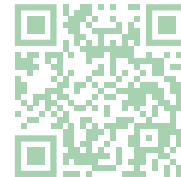
HEIGHT: ARCHITECTURAL

442 m / 1,451 ft

HEIGHT: OCCUPIED

413 m / 1,354 ft

Learn more by
scanning or visiting
[CTBUH.org/criteria](https://www.ctbuh.org/criteria)



Characteristics

Tall buildings are also classed by their functions. Groupings include **hotel, office, residential**, and more. A building is **mixed-use** if 15 percent or more of its height is dedicated to a second function. Similarly, buildings are grouped by their structural material: **concrete, steel, timber, mixed** (distinct systems stacked atop each other), and **composite** (two or more materials). Structures are considered “buildings” if 50 percent or more of their height can be routinely occupied. “Towers,” such as those used in telecommunications, do not meet this criterion.

Status

Most tall buildings begin in the **proposed** phase, in which a design team and developer have applied for planning consent or permits. Once piling work begins, the building is **under construction**. Near completion, a building becomes **structurally topped out** once the highest element of the primary structure is in place; it’s considered **architecturally topped out** once fully clad and its highest architectural elements are in place. Finally, a building is **completed** when it meets the above conditions and is at least partially occupiable.

The Return of Tall

Rebounding from pandemic-related slowdowns, construction of tall buildings worldwide has again increased in pace and completion records are set to be broken in 2023. The average height of the world's 100 tallest buildings has surpassed 400 meters, and over half of the world's stock of 200 m+ buildings have been completed in just the last eight years. As we evaluate trends and examine the volume of proposed buildings on the horizon, the trajectory of tall building construction points toward sustained long-term growth.

2,086

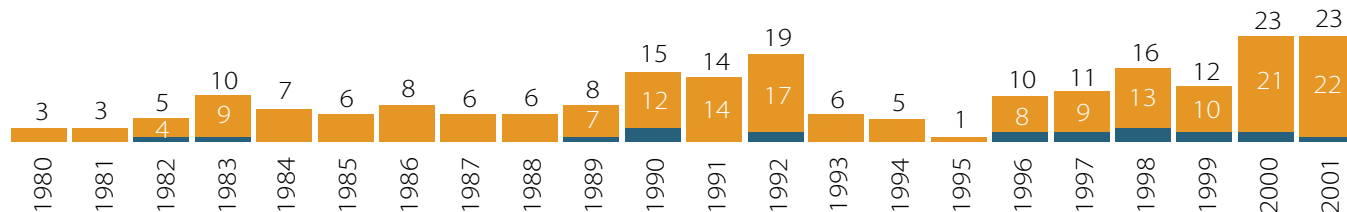
200 m+ buildings completed as of August 2023

1,128

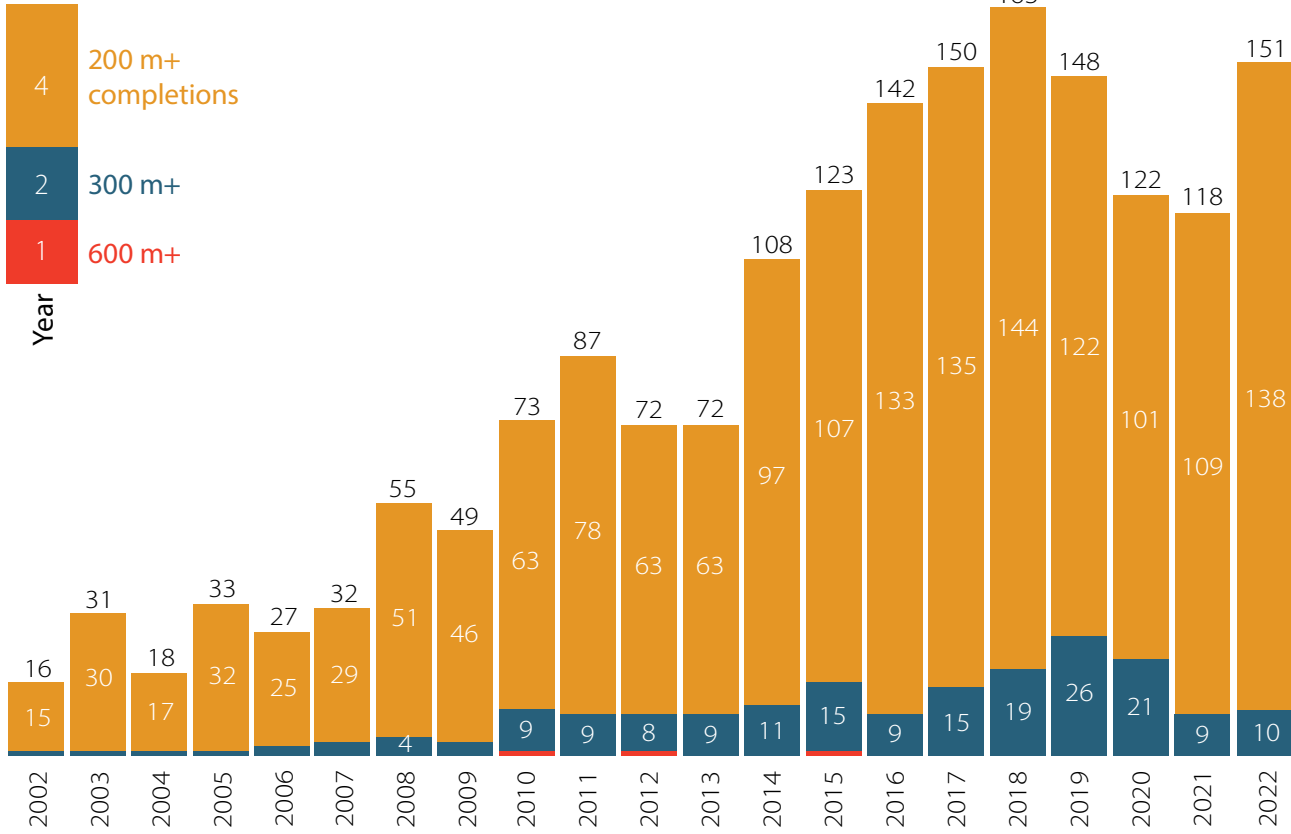
of those buildings have completed since 2015

1,041

of all 200 m+ buildings are in China alone



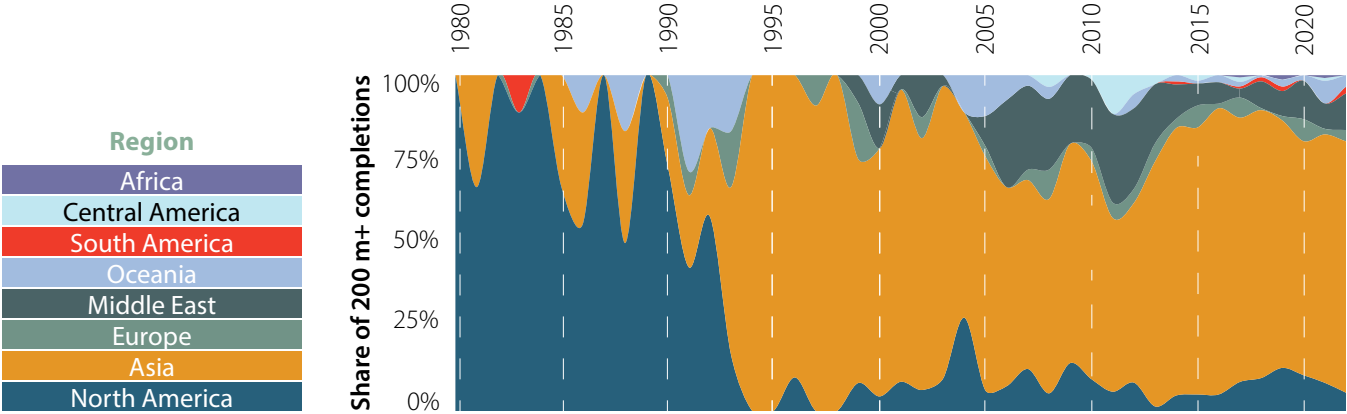
Total



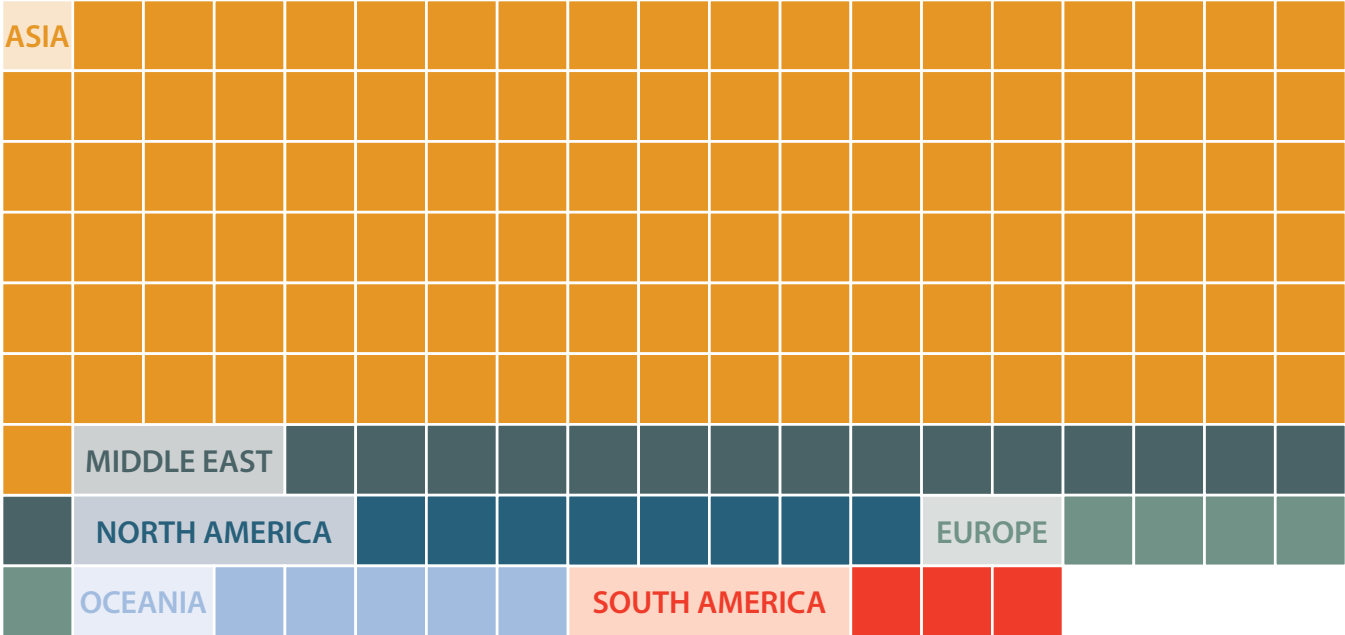
Regional Trends

Asia (excluding the Middle East) continued its dominance over new tall building completions, contributing 114 of the 151 overall, for a 75 percent share; this was significantly up from the 88 building completions in 2021, representing 74 percent.

Coming back into the fold for the first time since 2019 was South America, with three completions in Balneário Camboriú, Brazil. In 2022, there were no completions of 200 meters or greater in Central America or Africa, which both featured one in 2021.



2022 Completions, by Region

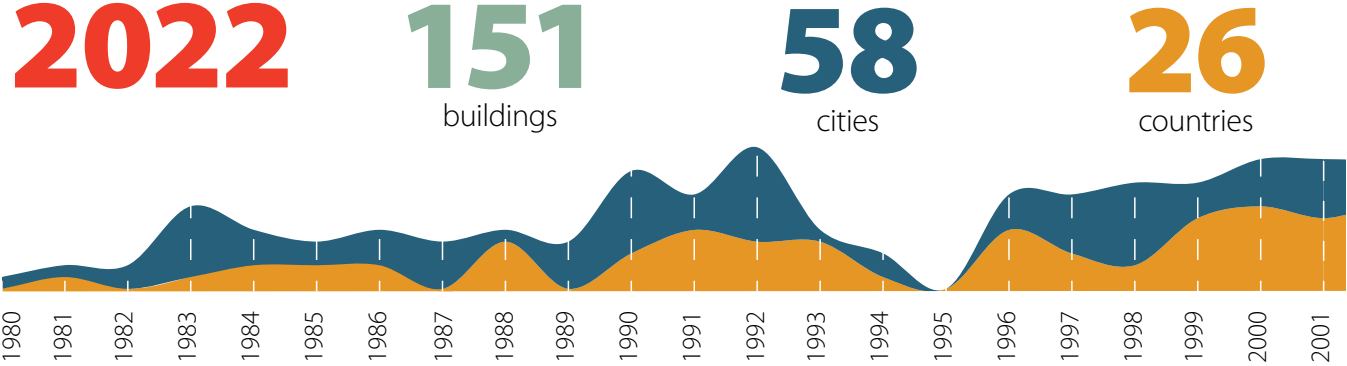


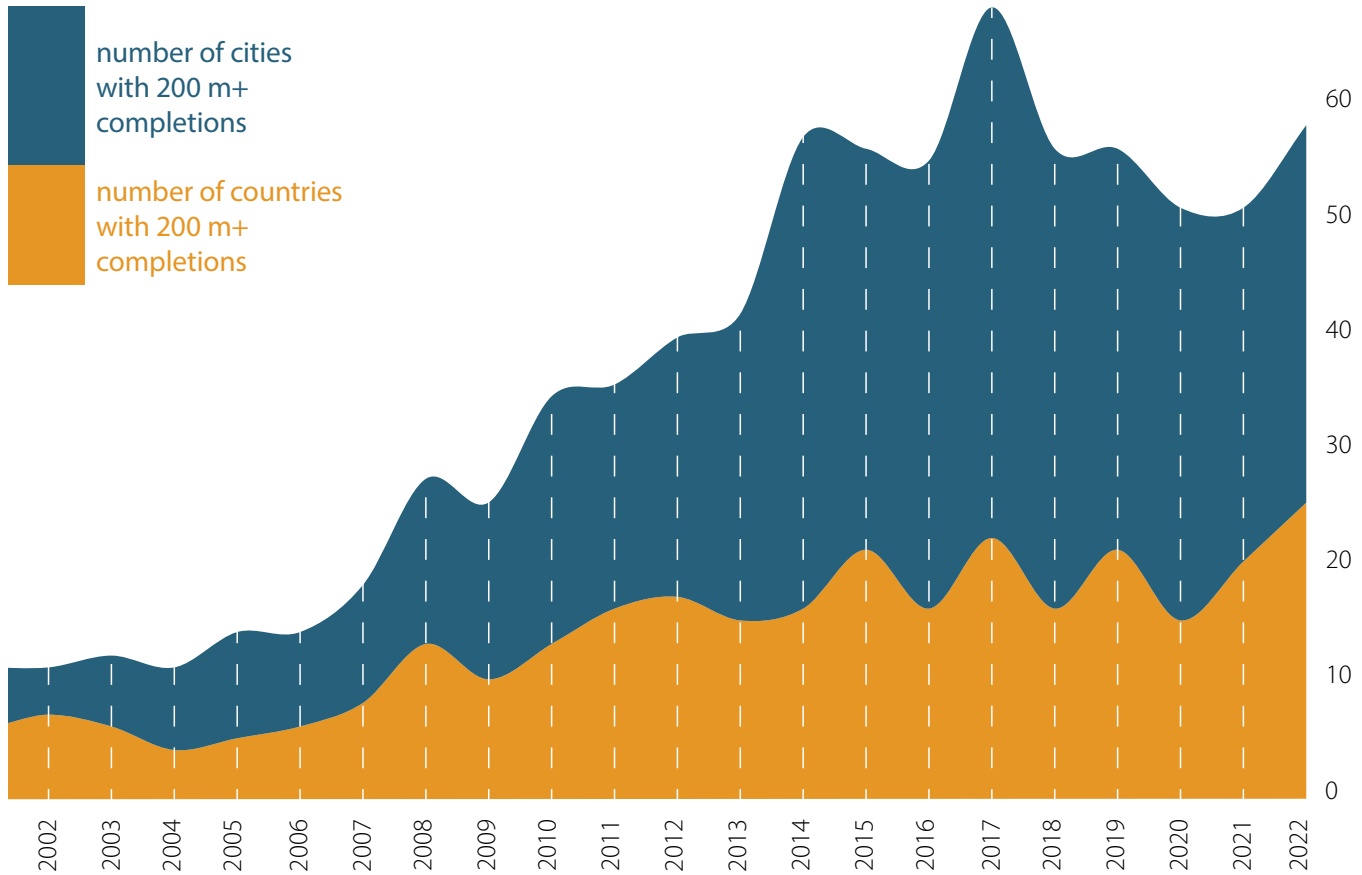
Note: Each square represents one 200 m+ building

Geographic Diversity

The geography of skyscraper construction continued to diversify in 2022, with a record 26 unique countries completing a 200 m+ building. Some 58 unique cities also completed a 200 m+ building, the second highest of all time.

Kazakhstan, Switzerland, and the Netherlands all completed their first 200 m+ building in 2022, and Poland completed its first supertall building. Globally, 200 m+ buildings now stand in 206 cities across 48 countries.





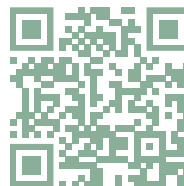
The World's 100 Tallest Buildings

Building Name

city name, country name

architectural height (meters) | number of floors | year

To learn more about the
World's 100 Tallest Buildings,
scan here or visit
skyscrapercenter.com/buildings



01 Burj Khalifa

Dubai, UAE
828.0 | 163 | 2010

02 Merdeka 118

Kuala Lumpur, Malaysia
678.9 | 118 | 2023

03 Shanghai Tower

Shanghai, China
632.0 | 128 | 2015

04 Makkah Royal Clock Tower

Mecca, Saudi Arabia
601.0 | 120 | 2012

05 Ping An Finance Center

Shenzhen, China
599.1 | 115 | 2017

06 Lotte World Tower

Seoul, South Korea
554.5 | 123 | 2017

07 One World Trade Center

New York City, USA
541.3 | 94 | 2015

08 Guangzhou CTF Finance Centre

Guangzhou, China
530.0 | 111 | 2016

09 Tianjin CTF Finance Centre

Tianjin, China
530.0 | 97 | 2019

10 CITIC Tower

Beijing, China
527.7 | 109 | 2018

11 TAIPEI 101

Taipei, China
508.0 | 101 | 2004

12 Shanghai World Financial Center

Shanghai, China
492.0 | 101 | 2008

13 International Commerce Centre

Hong Kong, China
484.0 | 108 | 2013

14 Wuhan Greenland Center

Wuhan, China
475.6 | 101 | 2023

15 Central Park Tower

New York City, USA
472.4 | 98 | 2020

16 Lakhta Center

St. Petersburg, Russia
462.0 | 87 | 2019

- 17 Vincom Landmark 81**
Ho Chi Minh City, Vietnam
461.2 | 81 | 2018
- 18 The Exchange 106**
Kuala Lumpur, Malaysia
453.6 | 95 | 2019
- 19 Changsha IFS Tower T1**
Changsha, China
452.1 | 94 | 2018
- 20 Petronas Twin Tower 1**
Kuala Lumpur, Malaysia
451.9 | 88 | 1998
- 21 Petronas Twin Tower 2**
Kuala Lumpur, Malaysia
451.9 | 88 | 1998
- 22 Suzhou IFS**
Suzhou, China
450.0 | 95 | 2019
- 23 Zifeng Tower**
Nanjing, China
450.0 | 66 | 2010
- 25 Willis Tower**
Chicago, USA
442.1 | 108 | 1974
- 26 KK100**
Shenzhen, China
441.8 | 98 | 2011
- 27 Guangzhou IFC**
Guangzhou, China
438.6 | 101 | 2010
- 28 111 West 57th Street**
New York City, USA
435.3 | 84 | 2021
- 29 Greenland Shandong Int'l Finance Center**
Jinan, China
428.0 | 88 | 2023
- 30 One Vanderbilt Avenue**
New York City, USA
472.0 | 62 | 2020
- 31 432 Park Avenue**
New York City, USA
425.7 | 85 | 2015
- 32 Marina 101**
Dubai, UAE
425.0 | 101 | 2017
- 33 Trump International Hotel & Tower**
Chicago, USA
423.2 | 98 | 2009
- 34 Minying International Trade Center T2**
Dongguan, China
422.6 | 85 | 2021
- 35 Jin Mao Tower**
Shanghai, China
420.5 | 88 | 1999
- 36 Princess Tower**
Dubai, UAE
413.4 | 101 | 2012
- 37 Al Hamra Tower**
Kuwait City, Kuwait
412.6 | 80 | 2011
- 38 Two International Finance Centre**
Hong Kong, China
412.0 | 88 | 2003
- 39 LCT The Sharp Landmark Tower**
Busan, South Korea
411.6 | 101 | 2019
- 40 Guangxi China Resources Tower**
Guangxi, China
402.7 | 86 | 2020
- 41 Guiyang IFC T1**
Guiyang, China
401.0 | 79 | 2020
- 42 China Resources Tower**
Shenzhen, China
392.5 | 68 | 2018
- 43 23 Marina**
Dubai, UAE
392.4 | 88 | 2012
- 44 CITIC Plaza**
Guangzhou, China
390.2 | 80 | 1996

**100 tall cities housing
508 million people with
1,918 total 200-meter-plus
buildings rising over
466 kilometers in total height**

