

Mystery of Burj Khalifa | How Tall can Humans Build? | Dhruv Rathee

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Dubai's sandy soil started being dug to build the tallest building in the world. Around the end of 2004, Taipei 101 became the world's tallest building. The goal they set out to achieve in Dubai was unimaginable and recordbreaking. They wanted a building so tall that it would be 62% taller than the second tallest building. The difference between the tallest and second tallest would discourage anyone attempting to break its record. New York's Empire State Building remained the world's tallest building from 1931 to 1971. It held the record for 40 years. It was beaten in 1971 by another building in New York. The World Trade Centre at 417m. 9% taller than Empire State Building. In 1998, the competition spread out of America, and shifted towards Asia. In 2009 Burj Khalifa beat all of them. From 510m to 829m. Burj Khalifa is so tall that if you watch the sunset from the ground, and then take the lift to its top, you can watch the same sunset again. It cost \$1.5 billion to build this. With more than 12,000 workers, with more than 100 distinct nationalities and spend 22 million manhours. But obviously, the purpose of building it turned out to be quite successful.

The exterior of the Burj Khalifa forms the world's largest LED screen. There are 1.2 million LED lights on the building in total, and it enables videos of any length to be played on this building. The frames on the exterior of these displays are often made of aluminium composite panels. Aluminium composite panels have several advantages: they are cost-effective, but of premium quality, they are recyclable, scratch resistant, fire retardant, antibacterial, can be used in all climates, and have a long lifespan. About 1030 years ago, the 20 tallest buildings currently have been built after the Burj Khalifa. The Dubai Creek Tower was planned around 2016/2018 and the foundation has been laid already, but the construction is halted here as well. It was planned to be inaugurated during the 2020 expo but it could not happen. The exact height of this tower has not been revealed yet, but it is believed to be between 838m and 1,300m.

Today, it is difficult to find a city in the world that could support a building taller than 800 meters. Even in the past 10 years, there have been several projects for buildings taller than 800 meters that were planned and later cancelled. A 4 kilometer tall building would look like this. Taller than Mount Fuji. With 1 million people living in it. As buildings cross the mark of 1.5 kilometers squared, the altitude will be so high that there will be differences in the air pressure. The biggest problem why such buildings are not built is money. There are very few cities all around the world where socioeconomic factors would allow the world's tallest building being built there. Burj Khalifa will remain the world's tallest building. 100 years ago, these cities were New York and Chicago witnessed an economic boom. Hordes of people were moving in. There was a demand to build more homes and offices in a limited space. In the 21st century, this was seen to some extent in Chinese and Taiwanese cities.

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