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# World's highest substation for the world's tallest building

Improving energy efficiency and offering electrical stability in Burj Khalifa, Dubai

A host of ABB products and solutions are improving energy efficiency and offering electrical stability in the Burj Khalifa - an iconic building in the UAE that has the power needs of a small town

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World's highest substation for Burj Khalifa



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# World's highest substation for the world's tallest building

Improving energy efficiency and offering electrical stability in Burj Khalifa

**Customer** : Emaar Properties

**Location** : Dubai, UAE

**Industry** : Buildings

## Customer need

- In addition to being an architectural and structural engineering feat, Burj Khalifa also presented many electrical engineering challenges
- Need for energy efficiency and reliable and safe power to apartments and offices on all occupied floors

## ABB's solution

- A one-of-a-kind distribution substation solution that controls and distributes power throughout the building - to everything from lighting and elevators to the ventilation, heating and air conditioning system
- 50 lightweight, space saving MV GIS, 72 Resibloc dry-type transformers, 37 TTA LV main distribution boards, other LV panels, a host of LV variable speed drives