

Qatar Communication Base Station Box-Type Substation

How many substations are there in Qatar?

It is a clear indication of the growth of the electricity sector in Qatar, accompanied by the remarkable expansion of main electricity transmission network, which led to an increase in the number of primary substations to 87 in 2000, which grew to 139 in 2008. As of May 2024, the number of primary substations has reached 393.

How much transmission capacity does Qatar have in 2022?

Qatar had 46,255 MVA of capacity in 2022 and this is expected to rise to 59,833 MVA by 2028. Listed below are the five largest transmission projects by capacity in Qatar, according to GlobalData's power database. GlobalData uses proprietary data and analytics to provide a complete picture of the global transmission segment.

How many primary substations are there in 2024?

As of May 2024, the number of primary substations has reached 393. This development coincided with the connection of the transmission network to some vital and important projects in the country, such as (Lusail City, Metro project, New Port, and 2022 World Cup Stadiums).

What is the voltage level of Gharafa substation?

The Gharafa Substation will be operated by Qatar General Electricity and Water Corporation. The designed voltage level of the substation is 132/66/11 kV and the operating voltage level is 132/66/11 kV. The step in voltage of the project is 132 kV and the step out voltage is 11 kV. Upon completion, the substation will be able to operate at 80 MVA.

How much electricity does Qatar need?

The demand for electricity in the State of Qatar has increased in recent years. The maximum network load increased from 941 MW in 1988 to 3,990 MW in 2008 and reached to 6255 MW in 2012. Meanwhile, due to the surge in demand, the electrical load of Kahramaa reached 9805 MW during the summer of 2023.

Prior to starting any construction, we acquaint ourselves with the site demarcations and the type and size of substation plant to be installed to satisfy the suitability of the plinth construction.

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