

Kathmandu Power Ground Base Station



Overview

This substation will provide electricity to the Kathmandu Valley for the hydroelectric projects in the Trishuli and Masryangdi river catchment areas, and it will also enhance the integrated electricity system in the country. The substation has a capacity of 320 MVA. As of 4 March 2025, Nepal's total installed electricity capacity is 3421. 41 MW from thermal, and 6 MW from Co-generation. Note: Dates before say. thmandu City (GPS: 27°43'26. The substation scope includes one 132/11 kV 45 MVA three-phase transformer with provision for a future 132/11 kV 45 MVA three-phase transformer; twelve modules of 145 kV SF6 GIS indoor switchgear [2 busbar modules, 1 bus-couple 50 A panels, 2 local. Six substations are under construction to make electricity supply sufficient, reliable, quality and safe within Kathmandu Valley. Nepal Electricity Authority is constructing 6 substations of 132 ÷ 11 KV at various locations in Kathmandu and Bhaktapur to improve the electricity transmission and. Nepal Electricity Authority (NEA) is establishing three 400 kV GIS Substations with extension of existing/under construction 220 kV GIS substations at Khimti,Ramechhap district, Barhabise, Sindhupalchowk district and Lapsiphedi, Kathmandu district of Nepal under Khimti-Barhabise-Lapsiphedi 400 kV. KATHMANDU: The Nepal Electricity Authority (NEA) is constructing six 132-11 kV substations in Kathmandu and Bhaktapur to enhance the reliability, quality, and safety of electricity supply within the Kathmandu Valley. Among these, the Teku substation has already been brought into operation, while. With the completion of construction of Matatirtha substation, the Largest 220 kV Substation Kathmandu valley, the quality of distribution system will drastically improve in the valley At a time when the construction of transmission lines and hurdles due to land compensation process, tree felling.

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Marsyangdi-Kathmandu transmission line and Matatirtha substation in

Marsyangdi-Kathmandu 220kV double circuit transmission line and 220kV Matatirtha substation, built to bring electricity from Marsyangdi river watershed area to Kathmandu Valley, have ...

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NEPAL ELECTRICITY AUTHORITY

The integration shall include all hardware and software required at the Control Centre as well as necessary data base, display generation and upgrades for proposed control and monitoring of station ...

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DETAILED TECHNICAL DESCRIPTION A. Transmission Grid

stations are included in the project scope of work: two 220/132 kilovolt (kV) gas insulated substations: Laphsiphedi and Barhabise; and four new 132 kV gas insulated substat.

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Matatirtha Substation: Powering Kathmandu Valley's Future with

The Nepal Electricity Authority (NEA) has finished construction of the Matatirtha 220-132 kV substation in Chandragiri municipality, Kathmandu, as part of the Masryangdi-Kathmandu ...

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List of power stations in Nepal

As of 4 March 2025, Nepal's total installed electricity capacity is 3421.956 megawatts (MW). This includes 3255.806 MW from hydropower, 106.74 MW from solar, 53.41 MW from thermal, and 6 MW ...

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NEA accelerates construction of six substations to strengthen Kathmandu

To improve power supply in the southeastern region of Kathmandu, the construction of a 132-11 kV substation in Mulpani of Kageshwori Manohara Municipality is in the final stage.

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Construction Of The Largest 220 kV Substation In Kathmandu ...

Matatirtha is now the largest substation hub for electricity supply in the Kathmandu Valley. According to Kulman



Ghising, Managing Director of the NEA, the construction of the Matatirtha ...

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Kathmandu Valley to get electricity boost with new substations

Six 132/11 kV substations are under construction at various locations in Kathmandu and Bhaktapur, forming the initial phase of a broader plan. The Changu Narayan substation in Bhaktapur ...



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Six substations under construction, 20 more to improve power supply ...

Nepal Electricity Authority is constructing 6 substations of 132 ÷ 11 KV at various locations in Kathmandu and Bhaktapur to improve the electricity transmission and distribution system within ...

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