

Electric Power Substations Engineering

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Electric Power Substations Engineering

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Step up substations are associated with generating stations. Generation of power is limited to low voltage levels due to limitations of the rotating alternators. These generating voltages must be stepped up for economical transmission of power over long distance. So there must be a step up substation associated with generating station.

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While electric substations take part of the distribution of electricity, they have many other functions as follows: Step up and step down of the voltage for transmission and distribution. As power is transmitted at a higher voltage over long distances, the current is lower.

How Does an Electrical Substation Work? - Bright Hub ...

The medium-voltage electric feeds and main power transformers feeding 60th Street only had a fraction of the electric power initially allocated by design engineering to fire up the new 2250 gpm (8517 lpm) ultra-filtration reverse osmosis treatment systems. In New York, when it is not possible to build out, the alternative is to build up.

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Combining select chapters from Leonard Grigsby's The Electric Power Engineering Handbook with several not found in the original work, Electric Power Substations Engineering has become a widely popular volume on the theory, design, analysis, operation, and protection of power substations.

Electric Power Substations Engineering - IEEE Web Hosting

The Jersey City power house was placed in "stand-by" mode in 1928, and was shut down in 1929. Following that, New York Edison (and, eventually, Con Edison) became responsible for providing 25-cycle power to Substation Nos. 1 and 3, while the Public Service Electric and Gas Company provided power for Substation No. 2.

The Railway Power Stations of New York City - Engineering ...

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