

Generator substation high voltage transmission



Overview

Immediately downstream of generators, step-up substations elevate the generator terminal voltage (typically 11-24 kV) to transmission levels (tens to hundreds of kilovolts). Generator step-up transformers (GSUs) and high-side breakers are key substation components.

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[Understanding the Role of Substations Along the](#)

Transmission substations facilitate bulk power transfer between generators and regional grids, serving both as junctures for power injection and

SECTION 9: ELECTRICAL POWER DISTRIBUTION

Utilities may have some control over and access to the energy stored in electric vehicles attached to the grid.



[How It Works: Electric Transmission & Distribution and Protective](#)

Substations serve as critical nodes connecting generation, transmission, and distribution networks. While substations are used for several

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distinct system functions, most utilize electric power



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