

**SolarInnovate Energy Solutions**

# **Introduction to the generator of Bogota Power Station**



## Overview

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How does a generator work in a power plant?

Generators are also used in power plants that don't rely on steam turbines. For instance, hydroelectric plants use gravity to allow water to spin the blades of water turbines, and wind turbines are rotated by the wind. In each of these cases, an AC generator is used to convert mechanical energy into electrical energy.

What is a station startup transformer?

**Station Startup Transformer** The Station Startup Transformer is a power transformer used to connect the power station to the transmission system so that power is available for the plant equipment when the plant is being started.

How many types of power generating stations are there?

A power generating station can be broadly classified into 5 types mentioned below. **Thermal Power Station** A thermal power station or a coal fired thermal power plant is the most conventional method of generating electric power with reasonably high efficiency.

How does a power generating station work?

At the center of it, however, nearly all power generating stations have an AC generator or an alternator, which is basically a rotating machine that is equipped to convert energy from the mechanical domain (rotating turbine) into electrical domain by creating relative motion between a magnetic field and the conductors.

How does a power plant work?

Modern power plants have an extensive electrical distribution system to provide reliable power to all of the support equipment in the power plant. The utility operating the power plant is in the business of generating electrical

power twenty four hours a day, seven days a week.

How much electricity does a conventional power plant produce?

In a Conventional power plant we are getting 33% electricity only and remaining 67% as waste. steam turbine, and balance of plant systems. steam turbine together to produce up to 50 percent more electricity from the same fuel than a traditional simple-cycle plant.

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### ENERGY STORAGE SYSTEM

**Product Model**  
HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
1600\*1280\*2200mm  
1600\*1200\*2000mm

**Rated Battery Capacity**  
215KWH/115KWH

**Battery Cooling Method**  
Air Cooled/Liquid Cooled



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