



Power Systems Online Engineering Project in Chennai



Electrical Engineering is a branch of engineering that deals with the generation of power, its distribution, and utilization. The special stream in Electrical Engineering to study these is known as power systems.

Engineering students are always in search of new projects for academic purposes, and finding useful projects makes that search worthwhile. Power System [projects](#) are much important in the field Of Electrical as well as Electronics Communication.

What exactly is a Power System?

The power system is a network which provides power generation, distribution and transmission of electric power. It uses various form of energy like natural fuels, solar energy, etc. Then converts it into electrical energy. The power system includes different devices connects to the system. Such as the synchronous generator, motor, transformer, circuit breaker, conductor, etc.

A power system is an interconnection network which consists of components transforming non-electrical form of energy constantly into the electrical form. They also transfer the electrical energy from power sources to the users. Another important function of a power system is to provide customers with electricity as economically and as reliably as possible. The power plant, the transformer, the transmission line, substations, distribution line, and also the distribution transformer are the six important components of a power system.

Types of Power Systems

Hydro Power System: In this power generation system, power creates using turbines which rotates due to the flow of water in rivers, sea, etc.

Thermal Power System: In this type of power system, electric power generates using heat energy creating from various natural resources.

Solar Power System: In this system, the power is generating using energy from the sun. This type of system is cost effective and also very efficient.

Why do we need them?

Economically, we always try to build a power generating station where resources are easily available. Consumers use electrical energy, but they may live in such locations where the resources for generating electricity are not readily available.

Not only that, sometimes there are also many other limitations due to which we cannot build a power station closer to the dense consumer's localities or load centers.

So instead we use an external power generation source and then transfer this power to the load stations through long transmission cables.

Projects are the best way to understand the basics of Power Systems

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Some of the topics we are offering are Dual Axis Solar Tracking System, Single Stage Transformer less Inverter, Solar Power BLDC Motor Drive using Luo Converter, Novel Bidirectional T Type MultiLevel Inverter, and many more. Certifications will provide after the successful completion of the projects.

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Applications of Power System

An example of a power system is the electrical grid that generates power to homes and industry within a specific area.

Smaller [power generating systems](#) are also using in factories, hospitals, apartments, and homes. Most of these electrical systems depend on three-phase Alternative Current (AC). AC is the standard for large-scale power transmission and distribution across the globe. Special power systems that do not always depend on three-phase Alternate Currents are seen in flights, electric rails, submarines, and also vehicles.