

SMART POWER DISTRIBUTION AND CONTROL SYSTEM

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ABSTRACT

The objective of this project is to develop a hybrid power solution that would monitor and synchronize the power output from multiple sources and combine them to act as one source. The system will automatically switch between sources, giving preference to renewable energy sources, and make a cheapest and most efficient combination to provide the load, i.e. if it's windy, the system will take most of the power from the wind turbine in order to meet the requirement of the load.

This smart power distribution and control system will work as a 24/7 operating system, with almost zero human interference.

Power crises is one of the major issue of our time and the effective usage of power can be a solution to many big world problems. This system not only ensures the use of power in optimum condition but also utilizes the natural energy sources which make it a lot cheaper as the units consumed by K-electric are reduced considerably.

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