

# **ELECTRICITY DISTRIBUTION SYSTEM USING GEO-SPATIAL TECHNOLOGY**

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## **ABSTRACT**

Today Electric utilities are realizing the benefits of GIS technology in the management of facilities for engineering, construction operations, and maintenance and services purposes. This project work illustrates the use of geo-spatial technology in electricity distribution. Geo-spatial technology is a combination of GIS, GPS & Remote Sensing. By using this technology electric energy is distributed to the consumer in an efficient way, by consumer indexing we can find the exact location of the consumer feeder, or transformer, or circuit number and or pole consumer is being supplied and with the help of energy auditing rate of energy consumption can be estimated and also find the different ways of energy saving.

The Remote Sensing, GIS and GPS techniques can provide an efficient tool for the management and analysis of Energy Distribution System related tasks. As a result efficiency of the electricity distribution increases, energy losses is reduces which increases the country's economy. A web based application is developed to calculate the energy consume by household instrument and to calculate the tariff.

**KEYWORDS:** Electricity Distribution, GIS, Geo-Spatial Technology, Remote Sensing, Consumer Indexing, Energy Auditing