GeoAmpere

Geomatics-Based Application Model for Planning Distribution of Electricity to Rural Entities

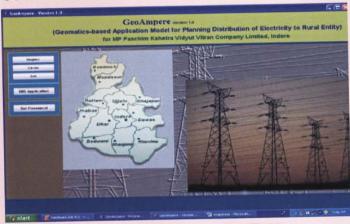




M.P. PASCHIM KSHETRA VIDYUT VITARAN COMPANY LIMITED, INDORE

Highlights

 Showcased in XIIth National e-Governance Conference' 2009



Product Features

- Sector-specific compilation of thematic maps.
- Special tool bar for map viewing / editing.
- Support for zoom, pan and map composition.
- Built-in traverse-aid and distance computation.
- Query based map output.
- MIS for attribute data
- Printing of maps

Salient Features

- Information on feeder characteristics like feeder length, conductor size, voltage ratio
- Village Profile Information
- Feeder Profile Information
- Information about villages covered under a substation & feeder.
- It has built-in traverse-aid and distance computation
- Site suitability for new electrical resource/ connectivity.
- Module for attribute data updation.

Product Overview

At a time when the country is aiming at a double-digit growth rate, the acute shortage of power is a serious impediment. The per capita consumption of electricity is 580 units as compared to 10,000 units consumed in the developed country.

GeoAmpere is a Geomatics-based Decision Support System for planning and management of Electrical Power Distribution Network (33 / 11 KV). GeoAmpere has been designed & developed by Geomatics Division, NIC M.P. State Centre and successfully deployed at Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Limited, Indore in western region of M.P. covering 14 districts.

The development of GeoAmpere was carried with following scope and assumptions:

- Digitized power distribution network (substations and feeder network)
- Digitized administrative boundaries, major roads and railway network
- Attribute data related to substations, feeders, village information, demography
- GPS based Survey data

Product Specifications

- ArcGIS Engine
- Open Source (J2EE) front-end
- Geo-database
- Higher-end WorkStation
- Color Printer

Impact/Benefits

- Geo-referenced Distribution Network helps in better planning, management of the network and to achieve transparency and easiness in planning & monitoring process.
- Holistic view of entire Power Distribution System.
- Verification of the spread & location of electrical resource / assets.
- Lead to minimize the T&D (Transmission and Distribution) losses.
- Voltage Profile improvement.
- Reliable assessment of Load Growt.
- Overload elimination by suitable planning.
- Enables faster response to changing ground realities and prompt corrective action.





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