

R-APDRP Gujarat – A Customer Story

Vijay Kumar and Jitendra,
Tata Consultancy Services
Noida

Abstract:

As part of RAPDRP Gujarat project, TCS created digital database of all the electric distribution network assets and consumers in 84 towns for four state owned distribution companies and created a GIS based geometric network for doing various spatial analysis. All electric network data captured in GIS is shared with Non GIS systems such as MDM (Meter Data Management), MIS (Management Information System), NA (Network Analysis), CRM (Customer Relationship Management), PMS (Project Management System), EAM (Enterprise Asset Management), CCC (Customer Care Center) using SOA based integration technique to carry out power utility analysis.

Maintaining the distribution network, which is quite complex and dynamic in nature, is a big challenge in itself but by customizing the ESRI and Telvent (now known as Schneider) products, TCS has successfully implemented an efficient web solution for more than 700 users located at more than 200 subdivisions. DISCOMs are using this solution for their daily routine business processes which have improved the productivity and saved time in their holistic approach to design, survey, capacity planning, network bifurcations and to get estimation cost of the network. Using this solution DISCOMs are maintaining a network which has more than 1200 feeders, 51500 distribution transformers as well as 3.8 million consumers. DISCOMs are able to reduce technical & commercial losses on the electrical lines by utilizing this GIS based intelligent network solution.