

Overview

Business situation:

The client is a leading electricity utility company in India responsible for the Transmission and Distribution of power in a state. The utility serves nearly 14.6 Million consumers of different categories spread all over the state covering an area of 192,000 square kilometers. To transmit and distribute power in the State, it operates nearly 684 sub-stations, 28,000 kms of transmission lines with voltages of 33 KV and above, nearly 1,30,000 kms of 11 KV lines, 1,50,000 distribution transformers and 3,57,000 kms of LT lines.

The utility wanted to have an MIS that integrates their administrative and network infrastructure with the EMS and DMS systems, Billing Systems, GIS and Operation and Maintenance systems and provide executive dash board and management information reports to the Utility to improve its operations.

Benefits:

- Integrated view of different utility IT and automation systems in a single dashboard
- Executive Dash board for Utility Management
- Operations Efficiency Improvement from exception reports
- Revenue optimization by concentrating loss making feeders

Introduction

Power transmission and distribution companies often use a large number of IT systems to support their business processes. Work methods were complex and inefficient because different non-integrated systems had to be accessed to complete a business process as often different user groups in an organization operated the systems. Obtaining information from different systems is a cumbersome process. A managerial information system (MIS) has to provide relevant information at various decision making levels.

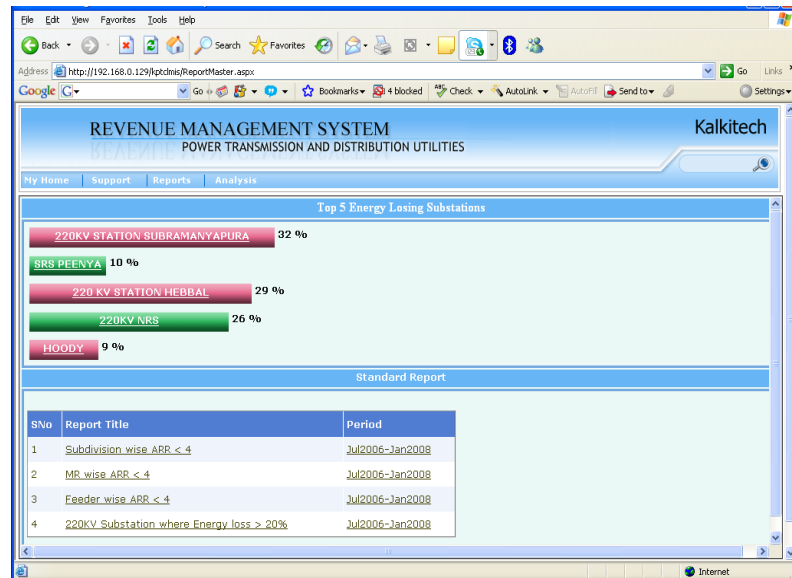
The Challenge

- The client operates across a wide geographical area
- The proposed MIS application has to interact with various application like billing application, CRM, SCADA, GIS
- The Billing data coming from different ESCOM's are in different format
- Large Volume of data

Kalkitech Solution

Kalkitech proposed an MIS & Revenue management application, built on EAI framework. It provide data transformation and routing of information across various deployed systems in a well-defined, consistent manner, based on configurable business rules that map the business processes of the utility . The application interacts with distribution billing system, meter reading and EMS/DMS system to calculate energy losses and revenue losses at different levels. The solution help to find out the losses in the distribution system at feeder level and at the DT level and also have the following features:

- Obtain information about the energy input and energy sold at various stages of the sub-transmission and distribution.
- Taking care of staggered, bimonthly and monthly meter reading of consumer
- Calculation of ARR (Average revenue return)
- Exception reporting
- User defined reports
- Executive dashboard



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