Atlantic Gas & Electric Case Study

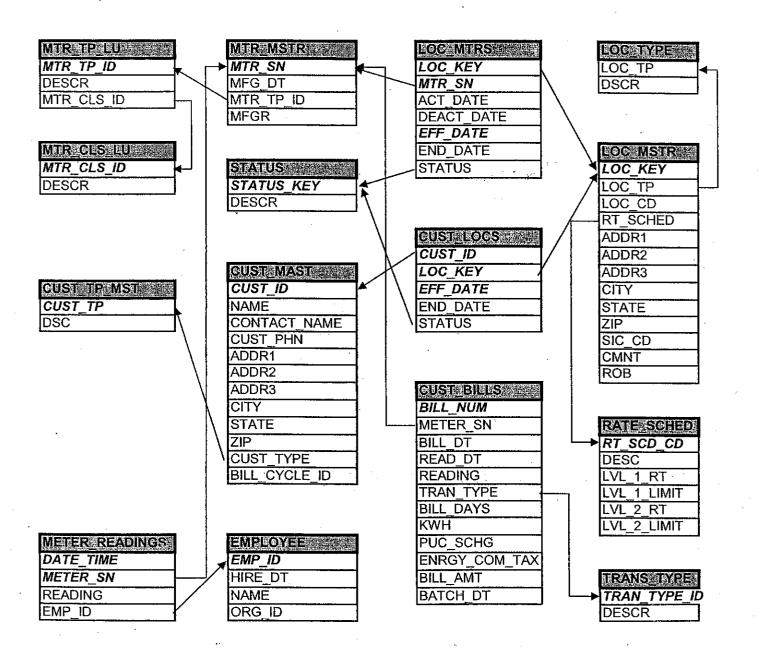
You're working on a data warehouse project with Atlantic Gas & Electric. Based on business requirements and priorities, <u>Electricity Customer Billing</u> is the initial focus.

- ☐ The Reporting and Analysis department supports internal management reporting and Public Utilities Commission (PUC) requests for information. In this rapidly changing energy market, they want to slice usage and billing data by almost all available attributes.
- ☐ Capacity Planning forecasts future demand. They want historical kilowatt hours (KWHs) by customer subsets to understand electricity usage changes over time. They also need to view usage by geographic entity down to the individual location. They'd like to map this information to determine the optimal placement of new generation facilities.

Business Rules:

- A customer has one or more locations; a location has one or more meters.
 Customers, locations and meters are often analyzed as independent entities.
 Locations and meter attributes don't change in a meaningful way, but some customer attribute changes are important.
- The rate schedule changes yearly sometimes more often when special rate changes are approved by the PUC. Keeping track of historic rates is important to understanding the relationship between rates and usage.
- The CUST_BILL table is generated based on the METER_READINGS table.
 When the bill is actually printed, the customer is determined by looking up the meter's location, then the location's customer.
- The operational Customer Billing System calculates the actual electric energy charges and appropriate ancillary charges. The PUC Surcharge is currently \$0.10 per KWH. Energy Commission Tax is currently 2.5% of the actual electric energy charge. The total bill amount is the sum of the electric energy charge, PUC surcharge, and energy commission tax.
- Most of the bills that come out of the billing system are regular monthly electricity bills. However, the billing system also generates bills for other services, like new meter installations, temporary service setups and energy audits.
- All source system tables shown are "current" tables.

Atlantic Gas & Electric Source System Data Model



Atlantic Gas & Electric more power to you! tm Customer Billing System Data Model Source Group: Corp. Data Admin Version: 2003-10-10 - 1 copyright 2002-2003 - InfoDynamics, LLC