

**Opportunity** Plant utility includes several different services:

- |                                |                                   |
|--------------------------------|-----------------------------------|
| 3 major electrical substations | 35 electrical distribution panels |
| Steam generator                | Air compressors                   |
| Service water                  | Waste removal                     |

Plant engineering staff and Cost Accounting staff required detailed information on usage of each utility. This includes

- Weekly reports
- Electronic data file for analysis and custom reports

Service had been installed over a period of several years. Feedback devices include:

- Meters with K-Y-Z pulse signal
- 3 different type of intelligent substation monitoring equipment
- Manual entry

**Solution** Computer performs Operator Interface and data acquisition.

Multiple adapters are installed to service switchgear intelligent interfaces, air handlers, and air compressors.

Additional features were installed during system design

- Plant alarm system
- Air handler control

Data is logged to a server based drive in a database. Utility software converts selected data to an Excel spreadsheet. Data is available to any computer with network access.

