

Metering Quality Assurance

Verification and reconciliation of daily and interval meter data.



Problem

- + Multiple sources of meter data can lead to inconsistencies
- + Customers need to see a consistent data view
- + Billing calculations must produce matching results regardless of meter data source
- + Meter communication issues create data issues

Why Fractal

Delivered parallel solution with Fractal Programming.

Parallel application ran over 1,000 times faster, reduced storage 90%, and eliminated meter data errors.

Utility is able to bill with confidence that meter data is correct.

Utility now has an independent way of checking billing and meter data.

Solution



Delivered parallel meter data management system to check system-of-record



Reconciled all interval data against all daily data

Reconciled all daily and interval data against billing system data



Machine learning module to identify unusual consumption patterns

Impact



Eliminated need for \$10 million meter data management system re-write.

