# Case Study

# Shell Facilities Management Centre



**MeiStream Plus and GSM Module** 

## **Client Background**

Shell has a number of retail sites in South Africa. At some of these sites, non-related business entities operate together. This has induced an increased need for water and electricity consumption and management.



### **Key Challenges**

Retail owners can't differentiate between the challenges needed to be addressed:

- consumption.
- · Incorrect municipal billing.
- Faulty and varying water and electricity tariffs.
- · Manual verification of the monthly municipal
- Phase synchronising the tariffs and account.
- · Power leakages or wastages.
- · Energy efficiency.

The electricity billing on site has been rectified and the credits received back from the municipal entity. Power usage was reduced with 20%. Water usage with the secondary business has been resolved and reimbursement settled.

## Pragma Intervention

Pragma in conjunction with Cool Technology evaluated the options to eliminate the challenges:

- · Gathering and analysing four year's historical data from the existing municipal meter.
- Installing online monitoring system to monitor water and electricity supply and usage.
- Implementing minimum and maximum energy values set up alarms to monitor power leakages
- Trend analysis to identify problem areas and phase synchronisation.
- · Comparison and analysis of historical data with profiled history of the newly installed meter.
- · Verifying tariffs with municipal supplier and making.

#### Phase I **Install Metering**

Identify metering

**Usage Reduction II** 

**Energy Efficient** 

**Design Initiatives** 

**Phase IV** 

Installation of metering

#### Phase II **Utility Auditing**

Phase V

**Monitoring** 

- Tariff Analysis
- **Bill Verification**
- Lease Analysis

Continuous Monitoring

#### Phase III Usage Reduction I

- Monitoring
- **Branch Education**

Cool Technology

- Initiatives
- Power Factor
- Correction

## Tools and Technology

- · EDMI 3 Phase data meter
- · MeiStream Plus and GSM module.
- · Focused Improvement business process
- · Real time information monitoring
- · Accurate readings.

electricity and water consumption of the fuel dispensing operations and secondary businesses on these sites. The following

- · Above the norm water and electricity



# Value Add

- · Reduced costs and improved profits through:
  - · managing tariffs
  - · verifying all bills and accounts
- · monitoring store operations
- · identifying anomalies in consumption at a glance
- · immediate corrective actions
- · identify Power Factor and rectify if required.
- · Successfully managing targets and
- Clarity on water and power consumption.
- · Continuously verify the efficacy of energy saving programs based on benchmarks.

The electricity billing on site has been rectified and the credits received back from the municipal entity. Power usage was reduced with 20%. Water usage with the secondary business has been resolved and reimbursement settled. Ongoing online metering will be managed to monitor and report usage and billing errors.