

Optimum Energy Services (Pty) Ltd Electricity and Water Metering Services

Optimum Energy Services specializes in supplying energy saving products and services to large corporate clients as well as selected domestic clients or developers. We aim to reduce the monthly energy bill for our clients through the introduction of various technologies and services.

Our management team all have BSc Engineering qualifications and experience which we use to select best of breed products and services that definitely work. We test all our products as far as possible ourselves to ensure the energy saving claims are genuine.

A key part of any company-wide energy and water saving project is measurement. High resolution (preferably data points recorded every 30 minutes) is invaluable for:

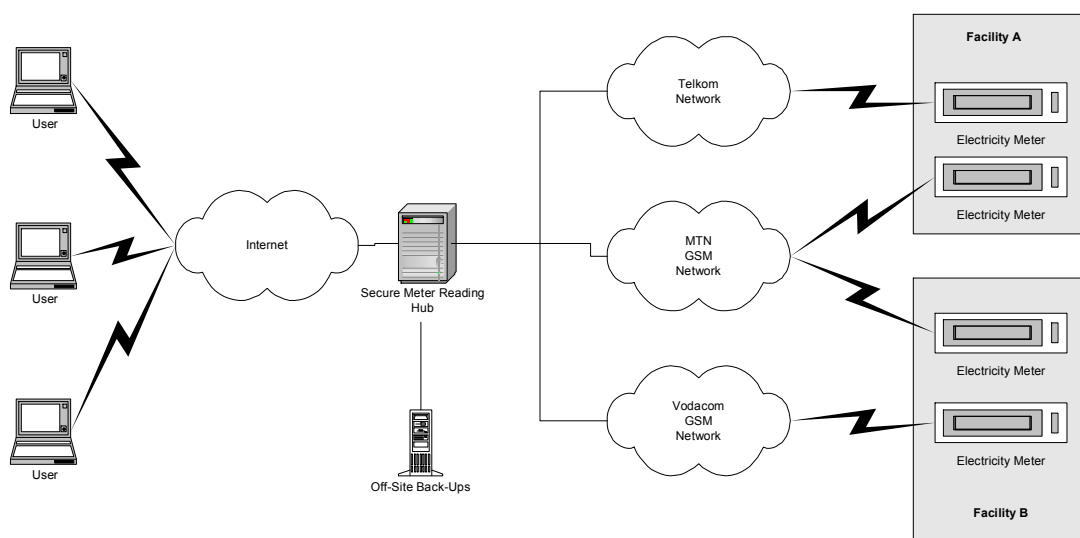
- Understanding energy usage patterns and behaviour.
- Identifying energy saving opportunities.
- Identify facilities that seem to be using more energy or water than they should.
- Prioritise energy saving projects.
- Identify new usage trends that may indicate faulty equipment or behaviour.
- Verify the effectiveness of any previous interventions.
- Validate council charges and readings.
- Ensuring the council is using the most cost effective tariff structure for your usage patterns.
- Manage peak demand and power factor.

This data will allow one to define a real time demand profile for the facility or group of facilities. In essence this is the “energy or water fingerprint” of the facility that shows how energy or water is used and more importantly provides a starting point to identify and prioritise saving opportunities as well as quantify and report savings achieved.

Our Remote Metering Service

We will install appropriate meters at relevant points in your facility which we can then read remotely via dedicated modems (either via the GSM network or via conventional phone lines). The meters take readings normally every 30 minutes (although we can read down to 1 minute intervals if requested).

Each meter is interrogated remotely and its data downloaded onto a central database usually once a day. Our specialised meter data analysing software will then make various standard as well as any customised reports specified available to the client via a password protected website. Our reports can aggregate data from many meters to form a company-wide view of energy usage.



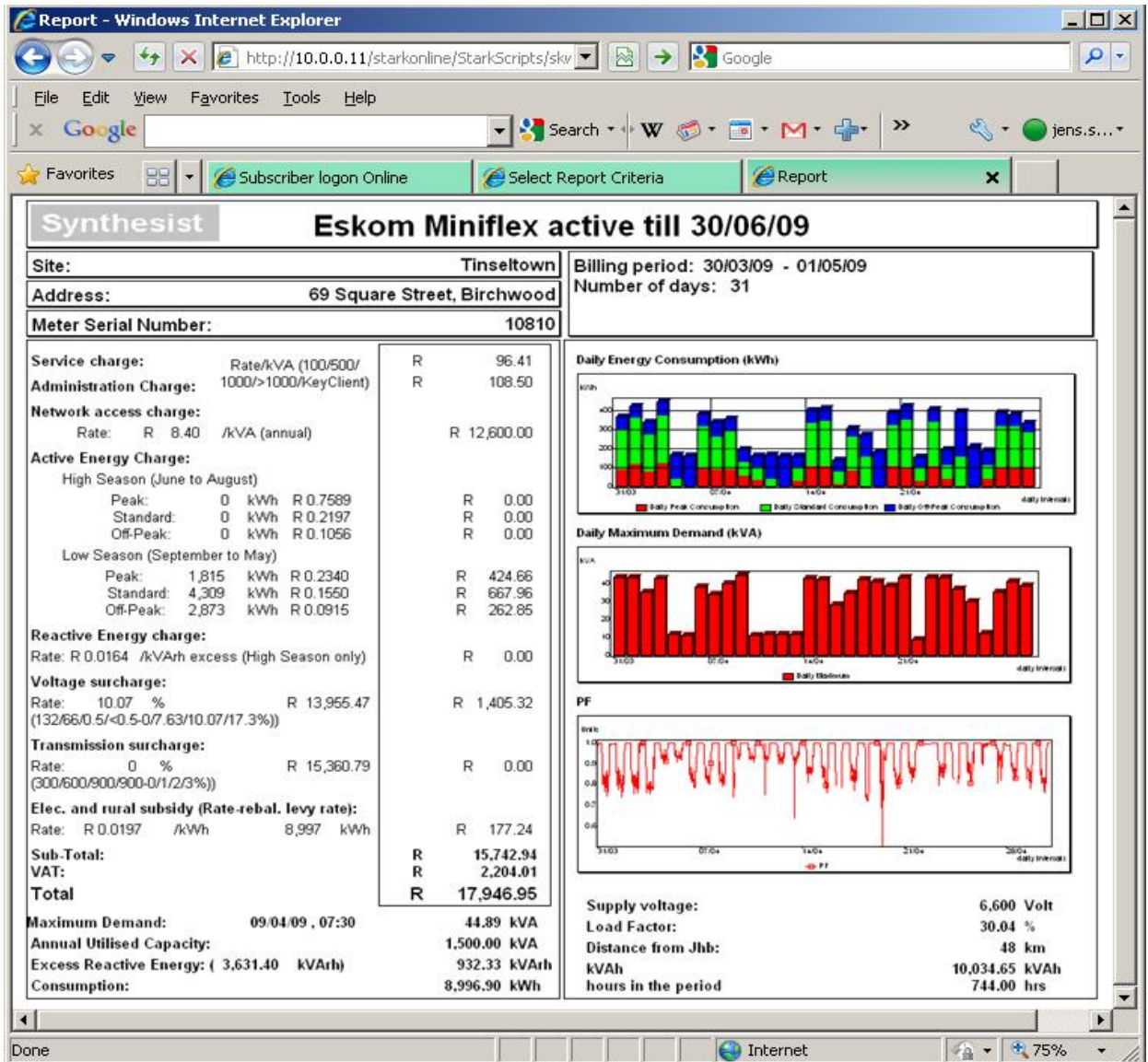
In addition we store most of the municipal and Eskom tariff structures, so that the amounts payable are calculated accurately and that information included into the relevant reports.

All of this is enabled by a sophisticated IT infrastructure that has the following features:

- Central Database server.
- Specialised meter data analysis and reporting software.
- Automated GSM and fixed line modem meter reading interface.
- Secure facility (both physically as well as virtual security).
- Off site backups.
- Password protected website reports.
- Customisable and flexible reporting.
- Event alarms.
- Integrated tariff rates

Our metering service records kWh, KVA, Volts and kVAr for both single and three phase supplies, normally every 30 minutes. Reports are customizable per client so aggregating data within or across facilities can be done as required.

An example of one of the standard reports is shown below:



Ongoing Product Selection

We are constantly investigating new products and services which we feel may help our clients save even more energy, so this list will grow steadily.

Please contact us if you are interested or have any queries, we would be very happy to hear from you.