

Omnenergy

Managing
your Utilities

Technology
to manage
your carbon
footprint
& save
costs



PROFILE

Corporate Overview



the
remote
monitoring
company

OMNIFLEX has been designing and manufacturing electronic products and systems for the automation and control industry since 1965.

Through our world wide partner network, we specialise in providing solutions to industry in the fields of Remote Monitoring, Alarm and Event Management, Data Acquisition and Control, and Energy Management.

Omniflex has been providing systems for energy management since the 1980's with load shedding for specialised billing tariffs, profiling, plant condition monitoring, peak lopping, remote monitoring and real-time alarming.

Solutions provided have ranged from supermarket monitoring, hotel load control, to load-shedding and maximum demand control for the world's largest gold mine.

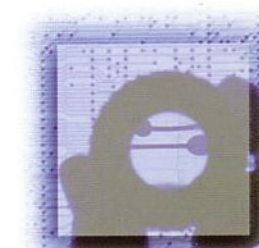
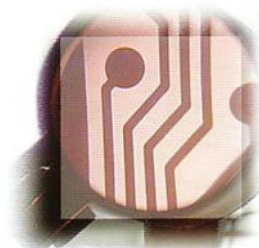
These proven solutions are being relied upon every hour of every day by major corporations around the world.

An investment in solutions that carry such a large responsibility requires confidence in our track record, and the continued expansion of some of the world's giant industries using OMNIFLEX technologies, is sufficient testimony to this support.

Don't ask us – ask our loyal customer base.

www.omniflex.com

*your link to reliable solutions
in energy management.*



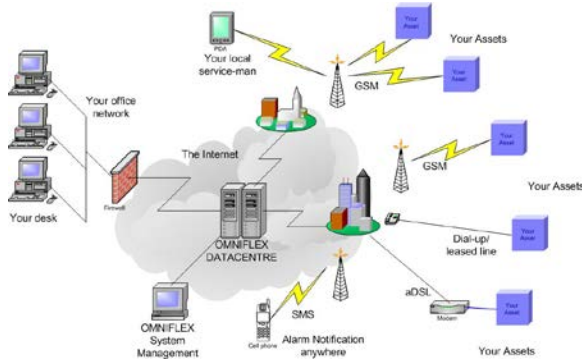
STRATEGY

Be environmentally responsible and more profitable

Sustainability

The growth in the world's human population and advances in lifestyle have brought with it enormous pressure on the resources of our planet. At current trends, world energy consumption is set to rise by a further 70% in the next 20 years, potentially threatening our very existence.

It is incumbent upon every enterprise to adopt a responsible approach to the conservation of energy and progress toward a more sustainable existence.



Benefits

Apart from obvious social benefits to society, increases in energy efficiency lead to significant cost reductions that provide an immediate payback.

There is an increasing amount of legislation to manage and reduce energy consumption. Demonstrating compliance and corporate responsibility can be a competitive advantage in marketing your products and services.

And it makes good business sense.

How?

Fundamental to any control is the ability to **measure**. Knowing where your energy is being consumed is the first step.

Once you know where your energy is being utilised you can analyse the information and **manage** this consumption, and eliminate waste.

Managing your consumption in real time to increase efficiency allows you to prevent wasted energy, allowing you to **save** money and increase profitability.

Measure → Manage → Save

Who can Help?

Omniflex has developed technology to allow remote metering, aggregation and analysis of water, air, gas, electricity and steam ("WAGES") and integrated these technologies into a package that is easy to use called **Omnenergy**.



Omnenergy is a web enabled service that integrates through Omniflex remote gateway products with your **existing** metering infrastructure to create a user friendly management tool for energy management and control.

The result is that consumption patterns and cost information can be delivered across the enterprise allowing the reduction of energy consumption and an increase in profitability and sustainability.

SOLUTION

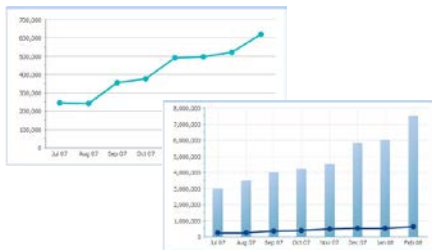
Data to your Desktop...

Measure

Effective measurement of energy requires real-time profiling of usage over consumption periods to enable analysis.

This requires automated meter reading over the enterprise and aggregation of the data from each utility for presentation and analysis at the point of control.

Remote meter reading over industrial sites, commercial buildings and campuses can be a challenge. In many cases, existing metering infrastructure is in place that requires interfacing.



Omniflex have years of experience in industrial networking, remote monitoring and energy management, utilising a variety of the latest communications solutions including mesh radio networking, local area networking and GPRS (mobile phone) communications to acquire utility metering data and communicate readings to the point of control.

Manage

The geographic spread of metering infrastructure to be managed from potentially multiple locations makes a web based solution ideal.

Omnenergy, as a web enabled service, provides an end-to-end solution for energy management, working in conjunction with your existing metering infrastructure, to provide historical data storage, visualisation and control for building owners, operators and tenants alike.

Using any web browser, energy consumption patterns and historical data are accessible to authorised users, providing alarms and reports to optimise consumption and apportion costs.

Omnenergy
The Power to Manage



SOLUTION

...from trusted partners

Omniflex

Omniflex is a leading provider of web based solutions for remote monitoring and control over very wide areas.

We combine our extensive in-house industrial measurement, control, communications and energy management expertise and experience with partnerships from the telecommunications and IT sectors to bring you a complete end-to-end solution for energy monitoring and control.

By providing timely information about your consumption and usage patterns, Omniflex assists you to prevent wastage and uncover savings.



Real Cost Savings

A partnership with OMNIFLEX in the implementation of an **Omnergy** based energy management solution can create lasting benefits for your organisation. Enterprises that are actively managed their utilities consumption, are typically reporting cost savings from 5 to 20%

Ask about the competitive advantage that a **Omnergy** solution from **OMNIFLEX** can provide.

Useful Tips to Save

- Provide timely energy information to users
- View consumption patterns over time
- Compare similar sites
- Define usage profiles and set alarms
- Introduce load-shedding in peak periods
- Aggregate consumption to discover loss.
- Correlate usage with weather patterns



APPLICATIONS

Sub-Metering



Why Sub-Metering?

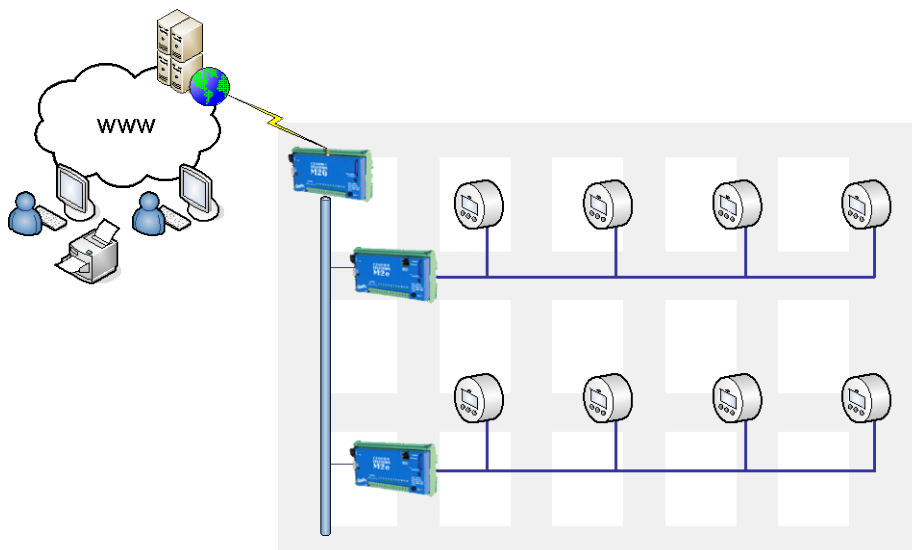
Utility sub-metering is the implementation of a system that allows a multi-tenanted property manager or departmentalised campus to bill users for individual measured utility consumption. Individual water, gas, or electricity meters are deployed to measure individual usage.

But this falls short of the optimum operational savings that can be achieved if the individual users/tenants cannot monitor their own usage in real time, and act to reduce it.

An **Omnergy** solution can be installed in new or retrofit sites, with new or existing meters, compatible with existing management systems, to provide this real time access to the individual users/tenants via their own secure web access without interfering with the normal building operations.

Because **Omnergy** is a service, capital costs are reduced to a minimum and energy management costs can be paid for directly out of savings.

- Enables billing by actual usage
- Allows real-time monitoring of usage by each user/tenant
- Provides SMS alarms if targets are predicted to be exceeded
- Overlays any existing metering infrastructure
- Easy access to energy consumption promotes savings



An Omnergy system for tenant sub-metering

APPLICATIONS

Industrial / Commercial Energy Management

Be more Energy Efficient

Enterprises are scrambling for relief from today's rising energy prices and pollution taxes. Often this effort is focused on ensuring the lowest prices rather than looking to manage for optimum use of the energy. Apart from the social responsibility, this increased efficiency translates directly to the bottom line. Real case studies have shown savings in the range of 10 - 30% when energy is actively managed.

New international standards such as ISO 50001 are in development that will provide a framework to manage energy. Companies will be judged on their ability to meet these energy management standards.

Effective energy management is mostly about HOW energy is managed. Energy must be managed by operational staff like any other valuable input. Timely Information must be available to facilitate this active energy management, to prevent waste before it occurs.

An **Omnenergy** solution with Omniflex' considerable expertise in industrial plant communications can facilitate the gathering and distribution of energy consumption data cost effectively.

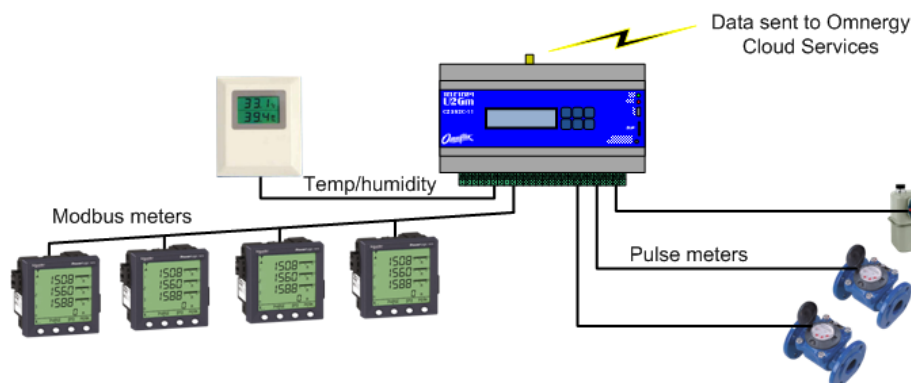
Because **Omnenergy** is a service, capital costs are reduced to a minimum and energy management costs can be paid for directly out of savings.



- Enables departmental allocation by actual usage
- Allows real-time monitoring of usage by each cost centre
- Provides SMS alarms if targets are predicted to be exceeded
- Overlays any existing metering infrastructure
- Provides consolidated reports against target to management

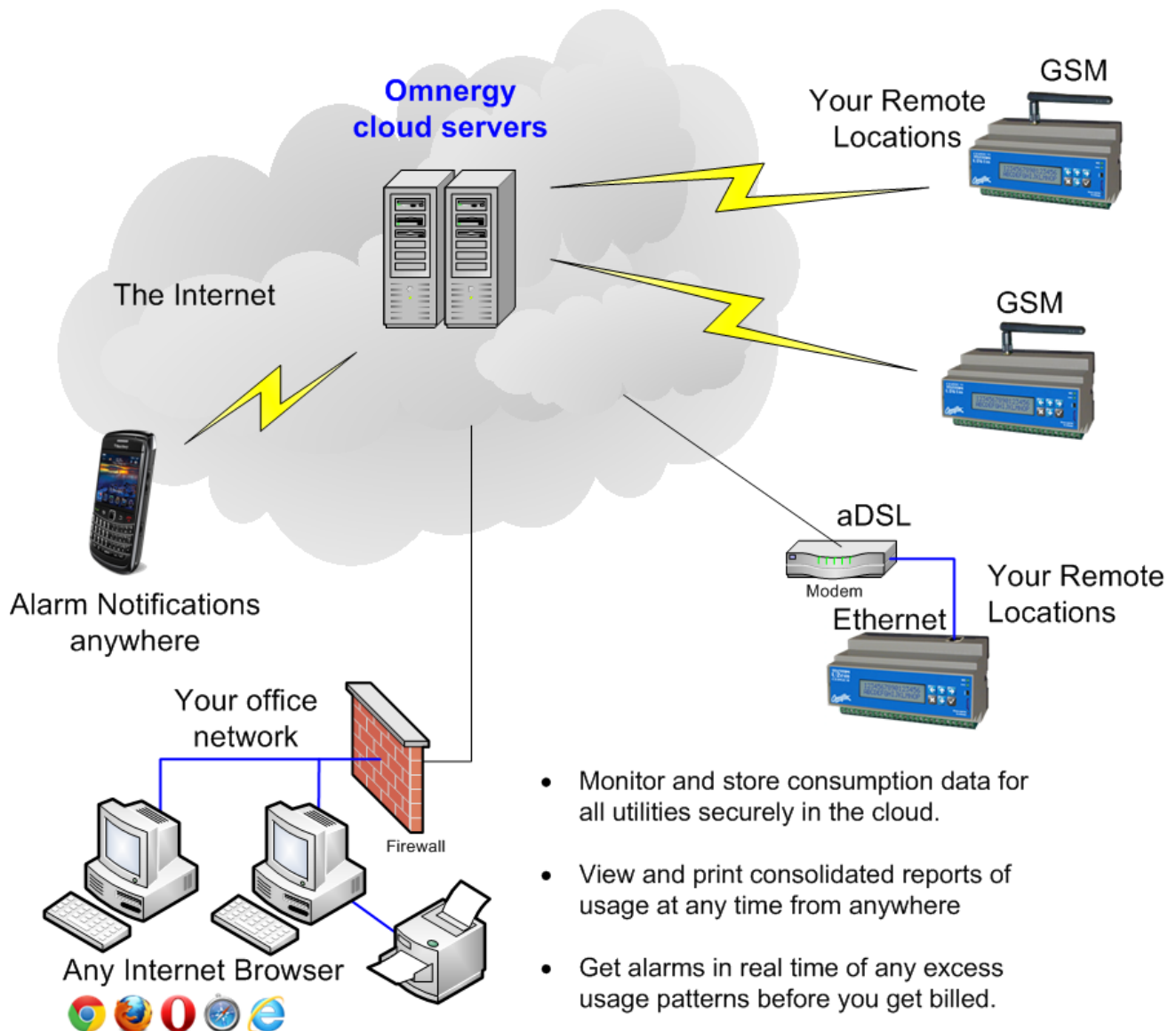


Site-wide Utilities Monitoring



Geographic

The Technology Framework for enabling effective Energy Management



Remote Utility Metering with Web-based Management Tools

Features

- Low infrastructure overhead costs
- Real-time automated updates
- Web based access tailored to each user

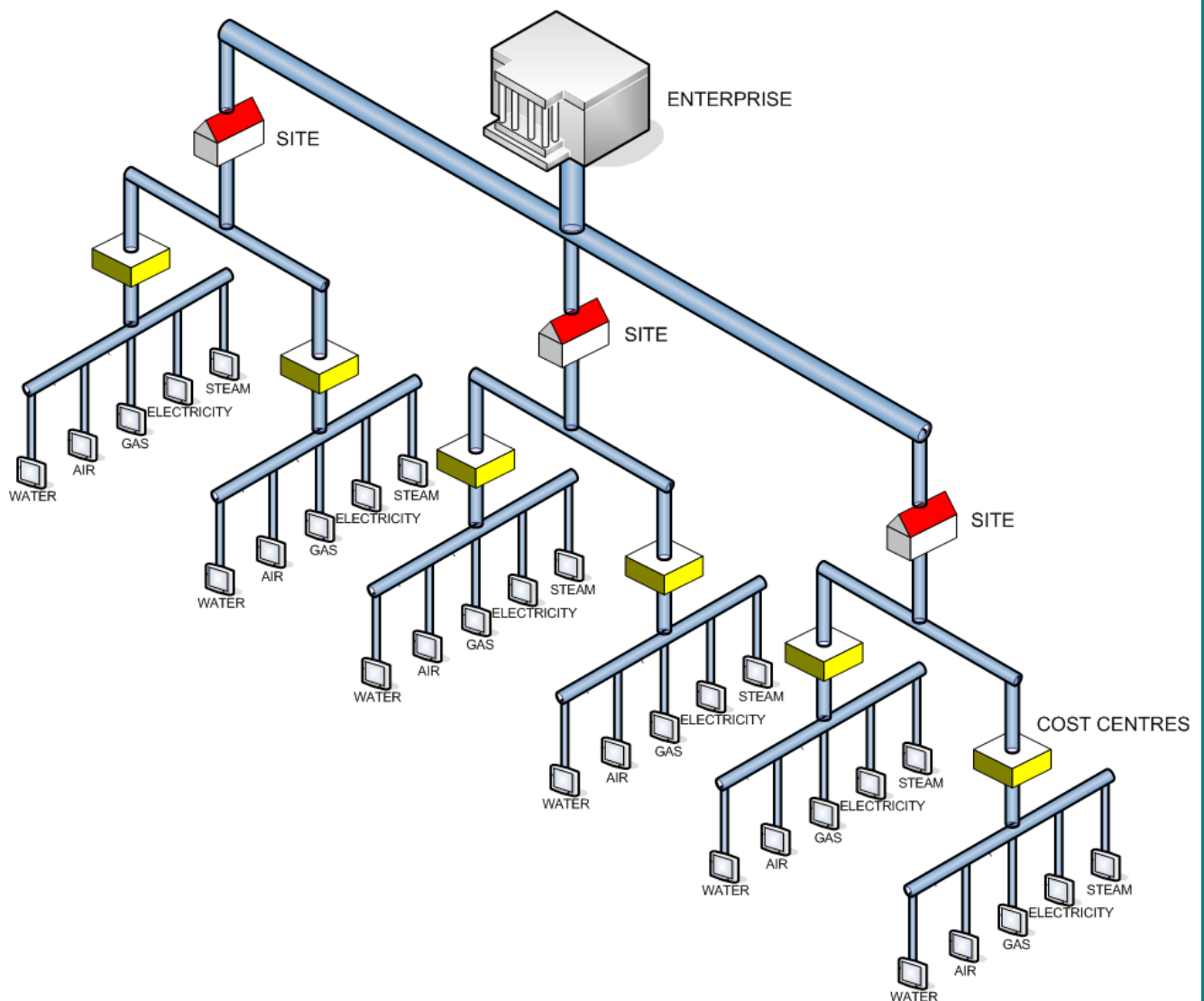
Applications

- Energy Management of wide areas
- Sub-metering across enterprises
- Assists enterprise carbon footprint reporting

ARCHITECTURE

Organisational

The Organisational Framework for enabling effective Energy Management



B E N E F I T S

The Profit Motive

Why Network?

M2M essentially represents a new way for you to manage your remote assets. In today's world "village" these assets can be spread over large geographic areas. Better managing these assets in real time can provide you with competitive advantages such as:

- Lower operating costs
- Faster response times
- Better Service levels
- Higher Revenue

For years now, organisations have been steadily increasing the amount of intelligence that surround their machines, using embedded computer technology and measurement instrumentation to make these machines "think" more for themselves.

A natural extension of this intelligence is the harvesting and interpretation of this data as a basis for strategic advantage. This can make any business more efficient, more competitive, and more profitable.

In many cases, the advantages on offer go beyond mere business process improvement, and allow organisations to re-invent the way they do business.

As an example, the first players to close the loop to the customer will own the information feedback, and it will be hard for competitors to displace them.

Embrace the paradigm shift and reap the reward.

"For enterprises that use embedded mobile, there is the potential for greater efficiency, improved business processes, and innovative business models. The net results: lower costs, faster response times, better service, and most importantly – higher revenue." [Deloitte Research]



R E T U R N S

Return on your Investment

Outsource your data

Conventionally, the cost of implementing remote monitoring systems is prohibitive. Not only is the capital outlay substantial, but the technical expertise required to co-ordinate all disciplines necessary to successfully implement such a system is beyond the capability of most commercial enterprises.

Omnergy removes these obstacles by providing a service oriented infrastructure that does not tie up your capital or require in-house technical expertise to implement. In short, you leave **OMNIFLEX** to manage your data collection, while you get on running your business.

This model follows the trend of outsourcing non-core activities and falls in line with other essential services such as telecommunications and other utilities. No longer is it possible to justify the ownership of the increasingly complex infrastructure necessary for wide area data acquisition.

A partnership with **OMNIFLEX** in the implementation of M2M can create lasting benefits for your organisation.

Ask about the competitive advantage that a solution with **OMNIFLEX** can provide.

The big risk is the delay in taking action
- not the technology



www.omniflex.com/omnergy



Solutions by Design