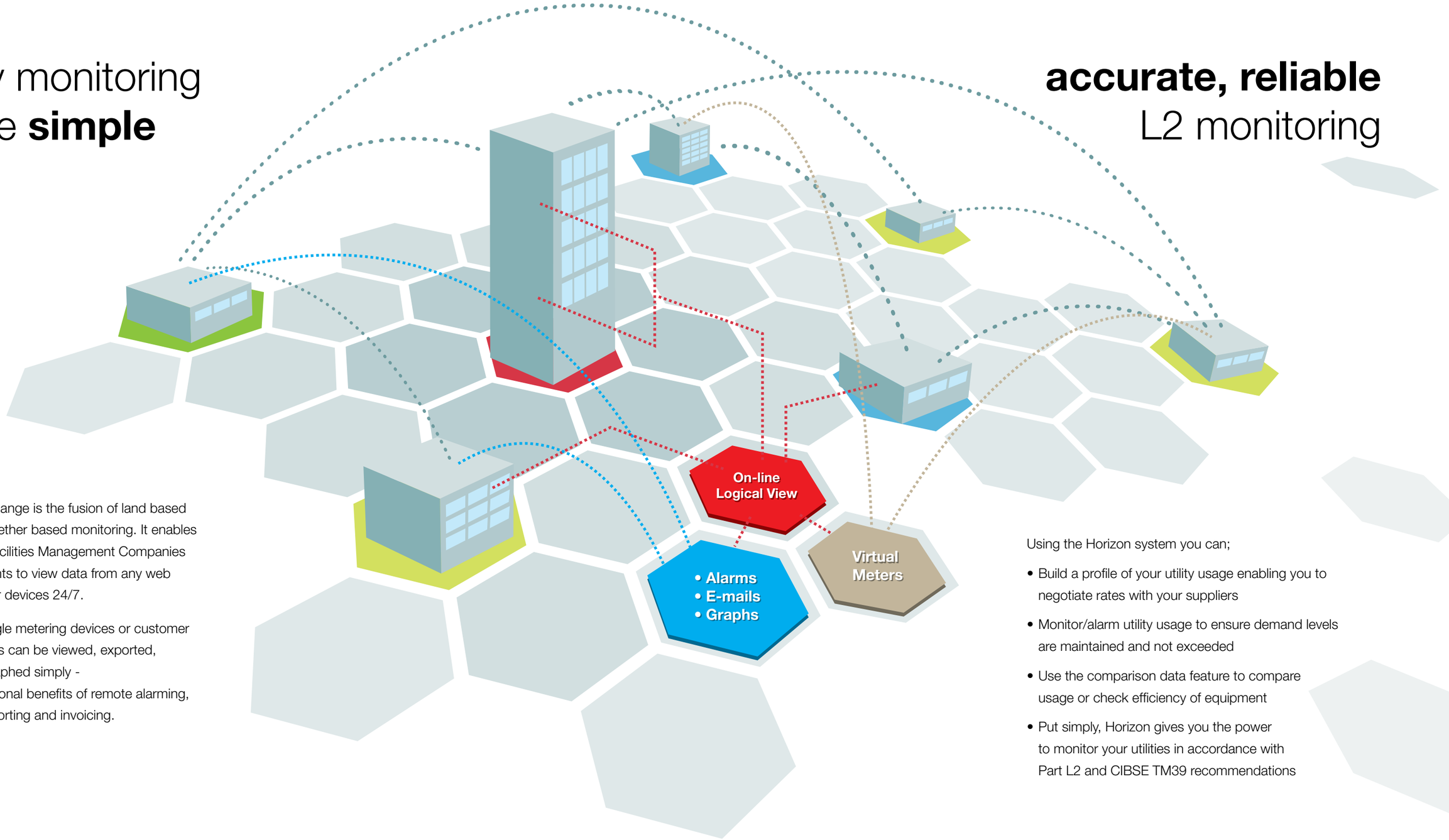
HORIZON

giving **you** total control

utility monitoring
made **simple**

accurate, reliable
L2 monitoring



The Horizon Range is the fusion of land based metering and ether based monitoring. It enables End Users, Facilities Management Companies and Consultants to view data from any web enabled PC or devices 24/7.

Data from single metering devices or customer defined groups can be viewed, exported, emailed or graphed simply -
with the additional benefits of remote alarming, automatic reporting and invoicing.

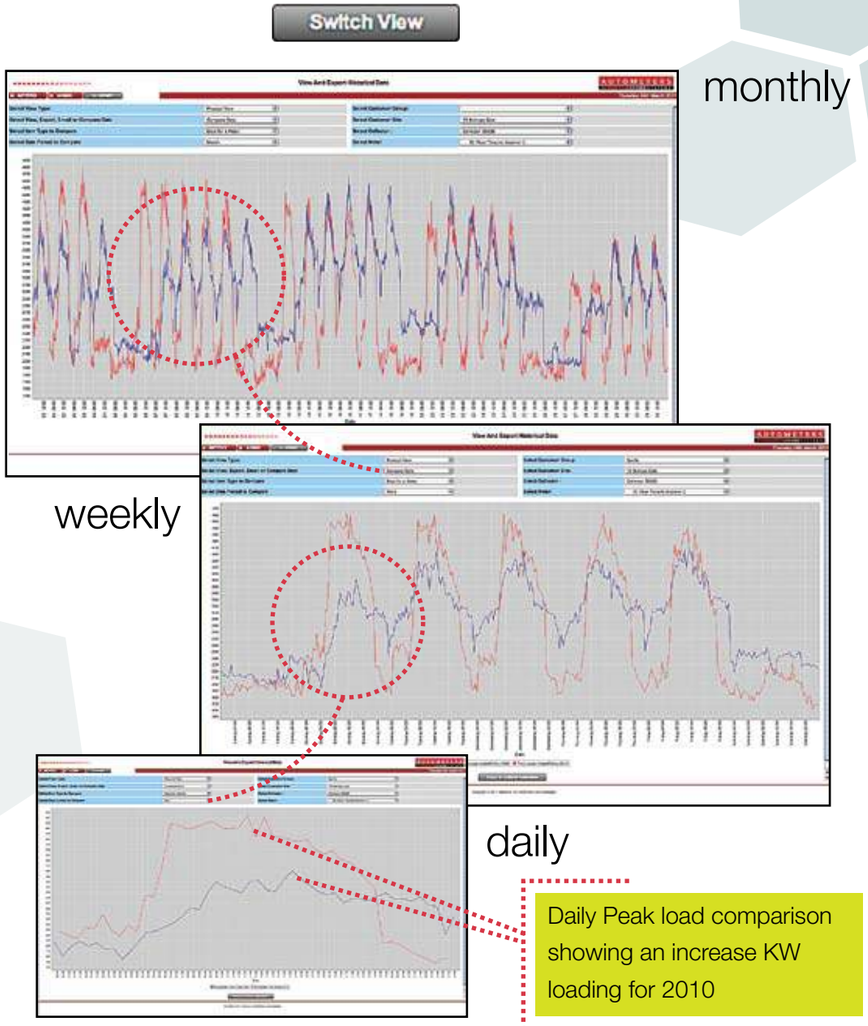
Using the Horizon system you can;

- Build a profile of your utility usage enabling you to negotiate rates with your suppliers
- Monitor/alarm utility usage to ensure demand levels are maintained and not exceeded
- Use the comparison data feature to compare usage or check efficiency of equipment
- Put simply, Horizon gives you the power to monitor your utilities in accordance with Part L2 and CIBSE TM39 recommendations

comparison of **data**

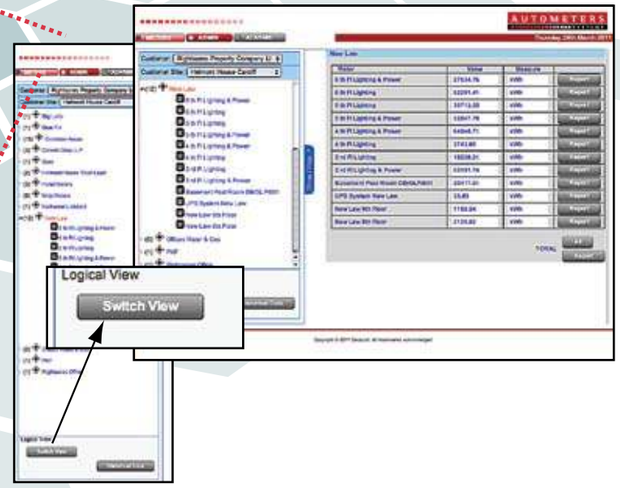
With the ever increasing cost of energy, having the ability to compare data is imperative. Horizon enables information from any meter to be compared on a daily, weekly, monthly or yearly basis. Data can be used for efficiency monitoring or simply to monitor the effect climatic conditions have on the energy usage.

Below are three graphs comparing the month of December for 2009 and 2010. The initial graph shows the full month with the highlighted circled areas showing the expansion possibilities from weekly to daily comparison for more detailed analysis.



Daily Peak load comparison showing an increase KW loading for 2010

simple logical displaying of information

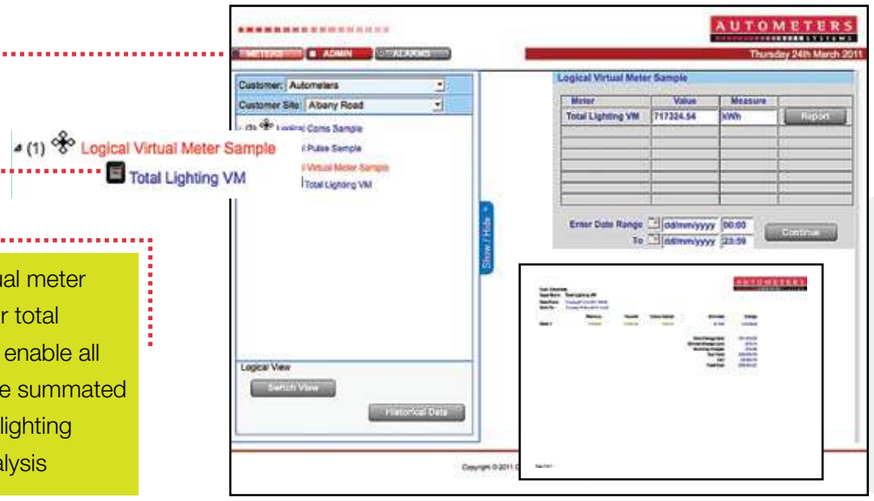


Information is only useful if it can be used! Horizons “logical” view enables meters to be collated to suit either cost centres, load type or user definable groups. Modbus and Pulse Meters can be grouped together to enable whole group or specific meter monitoring.

From these groups both manual and automated reporting can be set. Invoices can be printed and overall group costs can be reported in simple user friendly PDF format.

virtual meters

Virtual meters can be created from actual meters in the form of either summated or net calulations. This can be done for both Modbus and Pulse Meters, once created these meters can then be viewed in the logical view and operate, log and export data as if they were actual devices. These are especially useful when total loads are required to be known for either utilities or individual clients etc.



For example, a virtual meter could be created for total lighting. This would enable all lighting meters to be summated to give simple total lighting usage and cost analysis

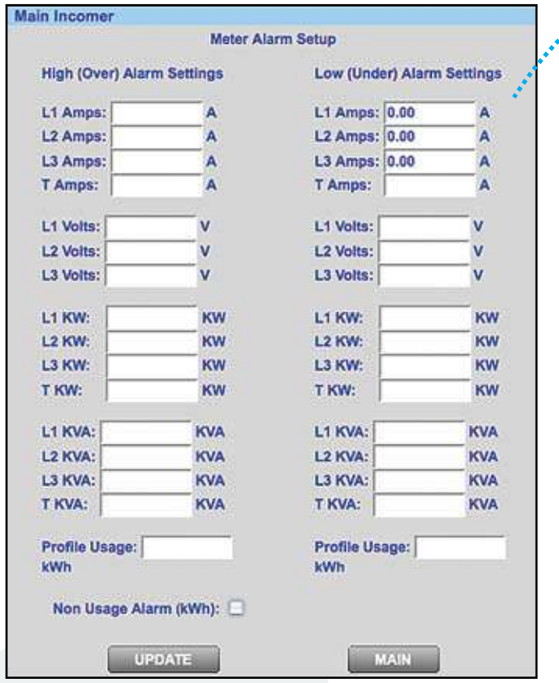
reporting **alarms**

Knowledge is important!

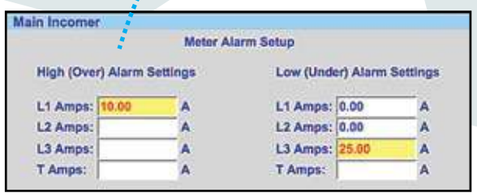
Knowing that you are near to critical levels or when you have lost supplies in todays busy environment is imperative. Horizon offers remote email or on screen alarming for all critical data.

excess alarms

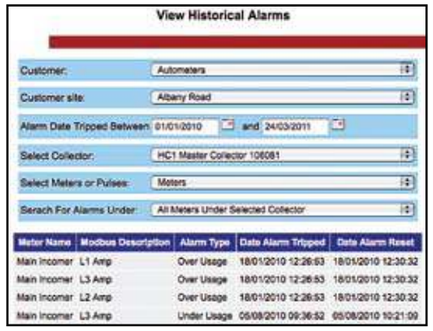
failure or **low level** alarms



highlighted alarmed values



screen **"pop"** to notify



Historical alarms are stored showing the time the alarm was activated ***and*** the time it was reset.

non usage alarms

Available for both Pulse and Modbus Meters the kWh non usage ensures that an alarm is raised in the event that no kWh have been consumed on a pre determined log interval. This is extremely useful for client monitoring or for domestic applications.

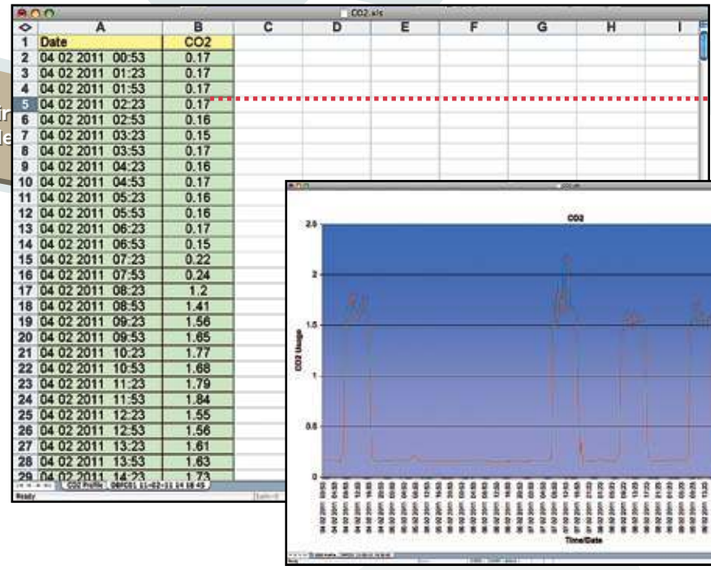
AUTOMETERS SYSTEMS

CRC – Carbon Reduction Commitment

The CRC came into force in April 2010 and aims to significantly reduce UK carbon emissions not covered by other pieces of legislation. The primary focus is to reduce emissions in non-energy intensive sectors and as such has become an everyday concern of building managers. Whether your utility supply is kWh mains electricity, natural gas or litres of diesel on mobile generators, Horizon can log the CO_2 and enable tabulated or graphical information to be viewed at the click of a mouse.

On-line Logical View

- Alarms
- E-mails
- Graphs



"Participants in the CRC will need to measure and report their carbon emissions annually,"

Whether you are a single building company or a multi location, multinational conglomerate, Horizon enables individual meter, total site and overall group monitoring, logging and reporting of CO_2 consumption.

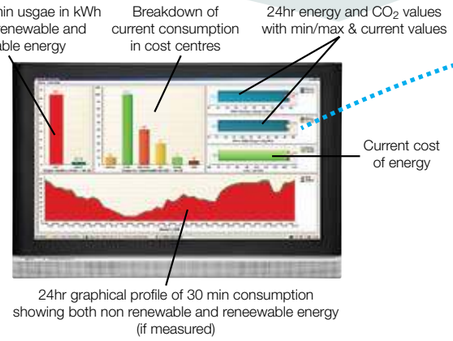
reduction can only start with knowledge of use . . . ***tick that box***

CO^2 = CRC = HORIZON

public awareness

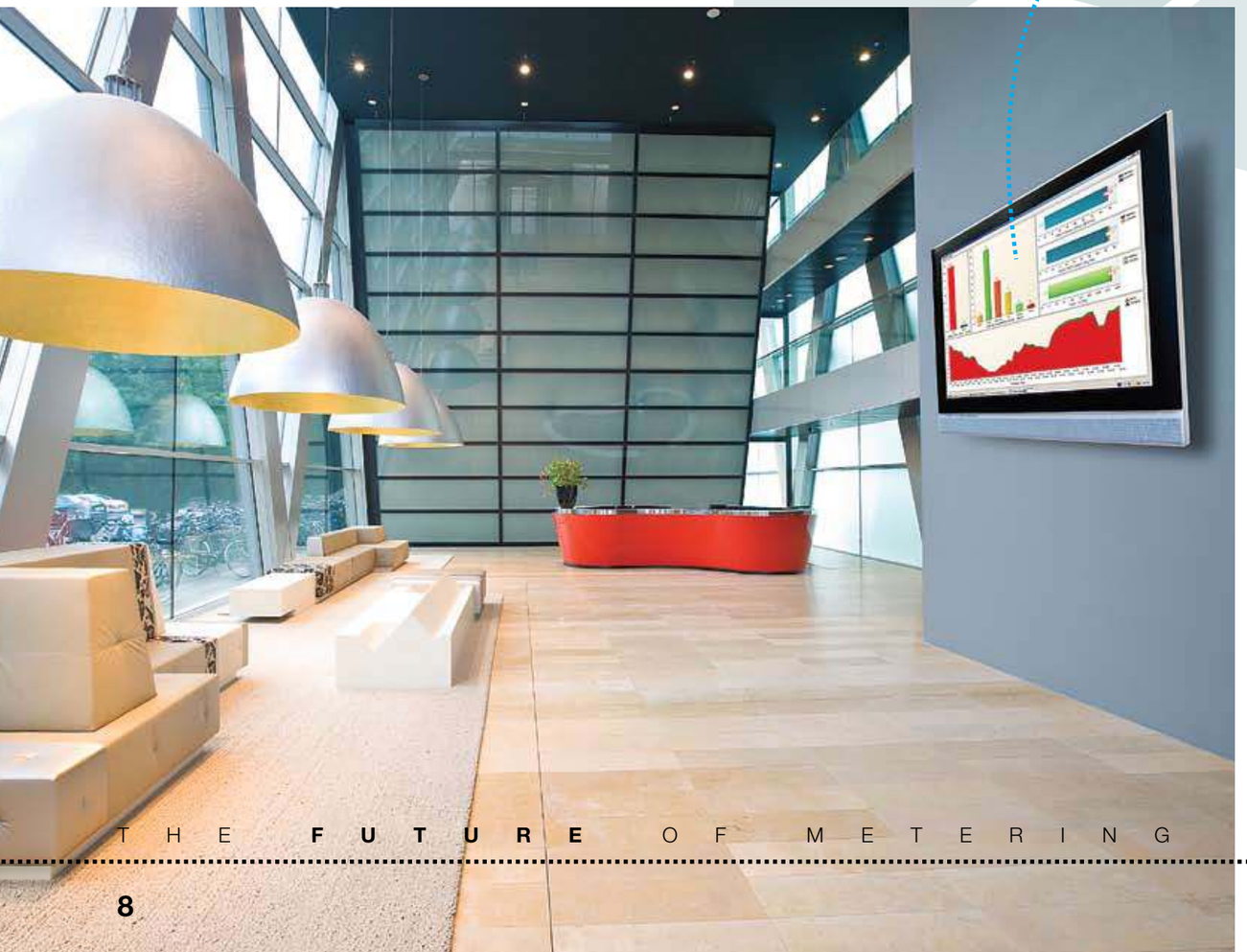
Showing our energy awareness and commitment to reducing our carbon footprint is something we all want to do.

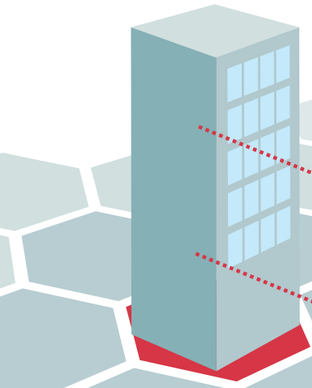
Horizon enables - with it's public awareness monitor - the display of current and historical energy consumption in an easy to read graphical format



Automatically updating with every log, the display is a constant reminder of the energy usage.

Display information can be formatted to show the split of energy use and the amount of renewable energy being used.





On-line Logical View

- Alarms
- E-mails
- Graphs

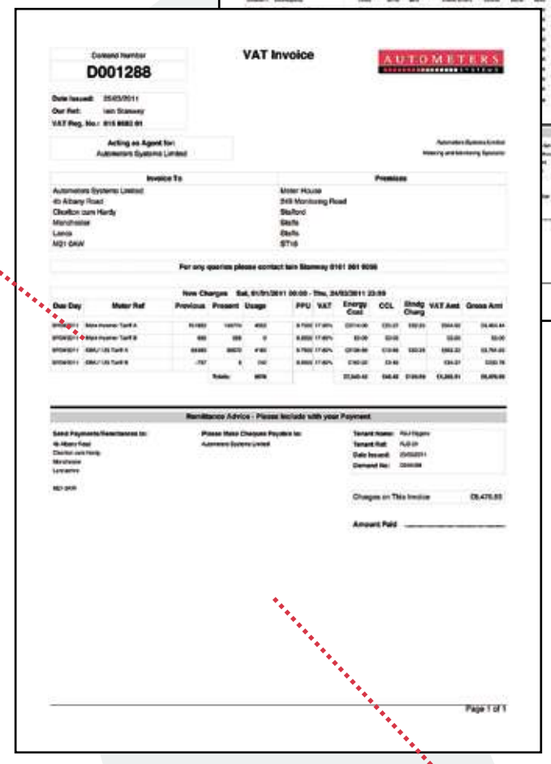
Virtual Meters

invoicing

Manual and automatic invoicing is available, if subscribed, from the Horizon website. These can be raised for single or grouped meters based on the logical view configuration. Separate templates can be created for each logical group enabling specific departmental or customer invoicing.

Invoices can be created with customer logos and all invoices are created with sequential numbering. All elements of the invoice are programmable - including the description.


Meter Reading Certificate
D000180
Rightacres


VAT Invoice
D001288
AUTOMETERS

Each line represents a meter with previous and present readings, PPU and standing charges all shown clearly for client information.


Define Billing for Emailing
AUTOMETERS

Invoices can be emailed Automatically in user defined intervals, to user defined groups. The initial time and date of these invoices can be set to co-ordinate with client requirements.

A remittance advise slip is included for return payment

wiring **schematic**