

business stream

A SCOTTISH WATER COMPANY



case studies

NHS
Lothian

Business Stream provide the cure to NHS Lothian's major headache

Business Stream delivers £130,000 of year-on-year-savings for NHS Lothian through the use of smart meter technology

Working closely with Business Stream, NHS Lothian has been able to make significant year-on-year water and waste water savings for one of their major Edinburgh hospitals. Business Stream's clever data management solutions enabled NHS Lothian's Royal Victoria Hospital to benchmark their water consumption levels against similar sites and identify inefficiencies quickly, enabling the hospital to continue to operate effectively.

Business requirements

NHS Lothian University Hospital division provides acute adult and paediatric care to the people of the Lothian regions with hospitals situated across the city of Edinburgh. Employing 11,000

staff, these hospitals treat just over 160,000 patients each year. One of their major Edinburgh hospitals, Royal Victoria Hospital, was built before the 1900s, making it prone to significant leaks from ageing infrastructure and subsoil conditions. Left undetected, these leaks can become a very expensive and incur unnecessary cost.

Solution

NHS Lothian welcomed Business Stream's suggestion to install smart meters to measure consumption levels at their Royal Victoria Hospital. Smart meters enable meter readings to be taken every 15 minutes providing, an in-depth analysis of water consumption patterns, identifying bursts, wastage and optimising water use.

Using this data to benchmark consumption levels with similar sites and identify any

inefficiencies and possible savings, Business Stream's water experts showed that consumption at the Royal Victoria Hospital far exceeded expected levels. These inconsistencies suggested that a burst was highly likely to be causing the problem.

The ageing pipe work had struggled to cope with fluctuating pressures across the network, because the burst's location allowed the water to simply soak away, it had gone undetected for some time. With the use of manual inspections and the latest, non-intrusive electronic checks, Business Stream located and repaired the burst within a week.

Fixing the burst immediately reduced average hourly consumption from more than 12 cubic meters to less than four cubic meters, as well as reducing the associated drop in waste water charges.



business stream

A SCOTTISH WATER COMPANY



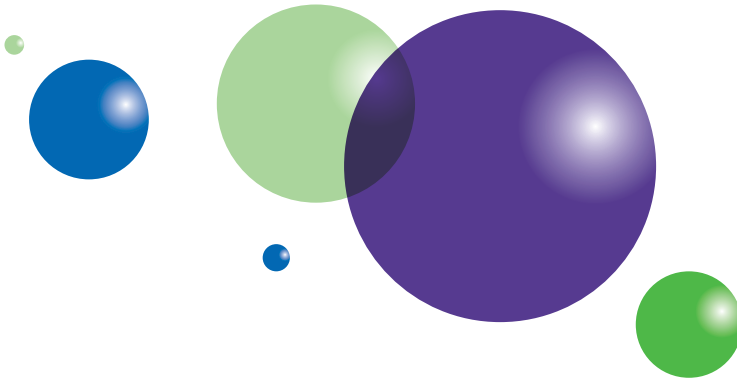
Business benefits

Business Stream's expert advice and the use of smart metering technology were able to deliver real business benefits to NHS Lothian. As a result of the repair, the Royal Victoria Hospital is now saving over £130,000 a year in water and waste water charges. If left undetected, the burst may have resulted in a potentially disastrous problem for the hospital and its patients for example temporary closure of the hospital if the leak was fixed under emergency conditions, which is a headache they could do without

Not surprisingly, the Business Stream team are now advising Lothian Health Board on many more of their sites.

Ronnie Henderson,
Estates Officer, Royal Victoria Hospital
NHS Lothian

'There are risks with an old infrastructure, but by measuring our consumption, we can spot problems immediately. With Business Stream team delivering an integrated solution within days, we are saving considerable expenses.'



Contact information

To find out how we can make water work for you, please get in touch

● **Online:** www.business-stream.co.uk

● **By email:** customer.service@business-stream.co.uk

● **By phone:** 0845 602 8855

● **By post:** 7 Lochside View, Edinburgh, EH12 9DH

Water consumption at Royal Victoria Hospital 17-25
December 2005 (m³/hour)

