LONDON BRIDGE BEST PRACTICE

LONDON BRIDGE STATION

Energy Saving - Caretaker

Overview

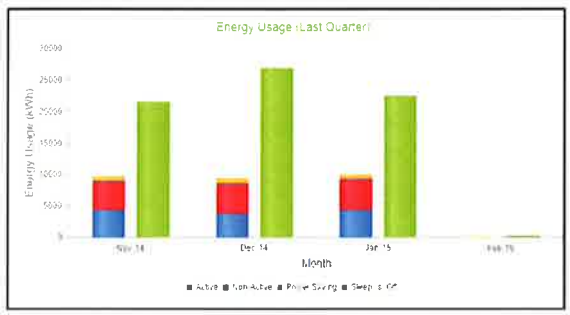
London Bridge Station Redevelopment Project is a large scale project, running 24/7 and it scheduled for completion in 2018; finding solutions to save energy and reduce the carbon footprint became one of their primary challenges. With the project having a target of achieving a minimum 5% reduction of carbon and electricity usage, implementing a tool that could measure but also reduce the carbon output of the computers in the office would offer both beneficial cost reductions and the means to achieving the target.

The Solution:

Through partnering with Streamwire, the IT external provider, London Bridge brought in the solution 'Caretaker Software'. This tool reduces the energy and hence the amount of carbon used through leaving computers on or on standby.

The software connects to the desktops within the office and monitors the energy use, when screens are locked by the user and puts the computer to 'sleep' after a period of inactivity in order to reduce its energy output. There is a total of 567 users logged to this software and this number is continually increasing as the software connects to more monitors.

By also being able to record data and create dashboards for weekly, monthly and quarterly trends, the project can monitor and track energy usage and see where energy is being wasted or savings are being made. For example, on Friday 5th December 2014, 08.56am there were 402 active computers, 70 inactive, 535 users logged on. This identifies that nearly all users at this time were logged into their computers indicating where peak time is for computer energy usage.



Not only does this software save the project energy but it also has a huge economic advantage. Since October 2014, the cost savings have been **£10,391.68**

Within the last quarter, London Bridge has managed to save **37896.68 kg of carbon** and **70513.94 kWh** through the Caretaker software. The software also educates the user on where energy savings can and are being made. By creating awareness about energy usage and savings, office behaviour has seen positive change with more staff shutting their computer down completely after work and turning their screens off when not at their desk.

Benefits:

- Managing energy usage in the site office
- Reduction in energy usage; carbon savings and cost savings. An approximate £85,000.00 and 429.49 tonnes of co2 saved over the entire project.
- Trending and monitoring of usage to enabling reduction targets to be made

Objectives and Targets:

- CEEQUAL – Energy & Carbon Performance – Energy comsuption consideration by contractor
- Sustainability Delivery Statement – Objective 13 – To miminimise the levels of carbon generated over the whole life of Thames Link Project
- Rail sustainability strategy – reduce energy consumption from site offices - 10% target on baseline year.