Case Study: Luton 6th Form College

The challenge we faced at Luton College was to develop applications that not only served as important facilities tools but also display student learning resources. With this in mind we created a multi functional 'live' energy dashboard that resides on the onsite BMS supervisor which can be accessed throughout the college, and have installed 40" reception based lcd screens which automatically update with the latest received values upon rotation.



The Abstraction License & Discharge License apps are important to the college as they must submit annual reports detailing the usage amounts. The college can be shut down if government targets are exceeded.

"Luton sixth form college : Abstraction Licence : Period ending 31st March "

View: Period Start : Meter Reading at start of period: Period End : Meter Reading at end of period : Used in period : 1st April 2010 0 m3 31st March 2011 284274 m3 284274 m3

"Luton sixth form college : Abstraction Licence : Daily Log Viewer"

Tuesday, 01st March 2011



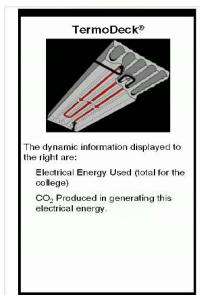
The Building Energy Performance app is used to display the Co2 impact generated by the college. These screens run through a sequence of events displaying live data information as well as tutorial movie clips, each graphic updates the live values and rotates automatically which are installed on reception based monitors.

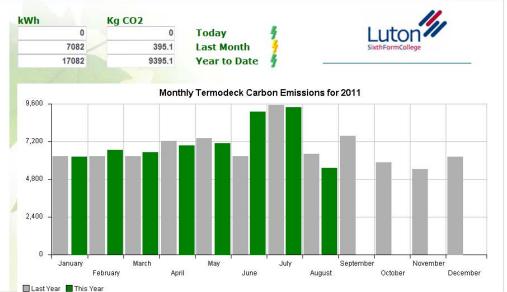




Application Overview

"Luton sixth form college: Building Energy Usage: Termodeck"









Application Overview

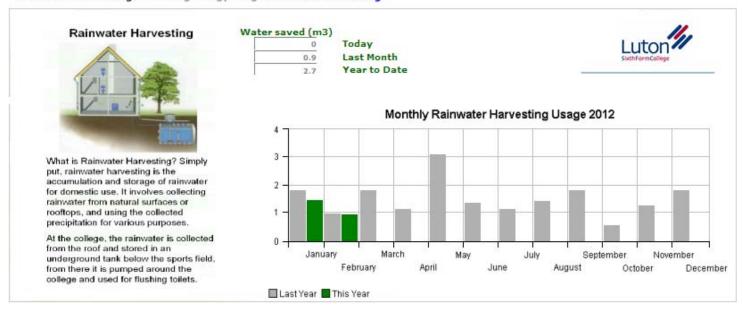
"Luton sixth form college: Building Energy Usage: Ground Source Cooling"





Application Overview

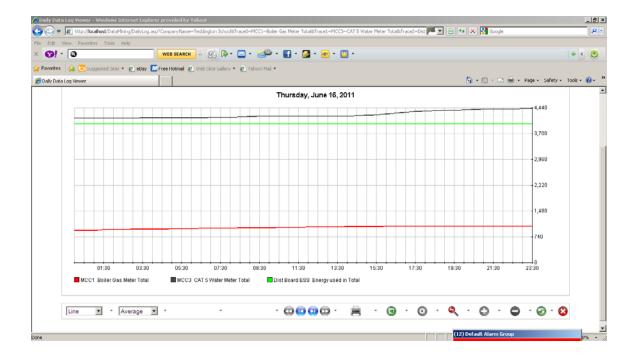
"Luton sixth form college: Building Energy Usage: Rainwater Harvesting"



The performance summary application 'Data Mining' is designed to display a summary of all logged data points, they can view individual logs or multiple logs - up to six on one graph

elect:	Outstation ID :	Sensor Label:	Value :	Avg :	Max :	Min :	High :	Low:
	MCC1	Boiler Gas Meter Total	1120 M3	539 M3	1120 M3	0 M3		
	MCC3	CAT 5 Water Meter Total	4583 M3	2169 M3	4583 M3	0 M3		
	ACTIVITY SUITE	Energy used in Total	50135 kWh	48692 kWh	50135 kWh	47402 kWh		
	Dist Board ESS	Energy used in Total	3976 kWh	3947 kWh	3976 kWh	3918 kWh		
	Dist Board EXT	Energy used in Total	3722 kWh	3674 kWh	3722 kWh	3623 kWh		
	Dist Board G/0/1	Energy used in Total	61850 kWh	60447 kWh	61850 kWh	59051 kWh		
	Dist Board G/0/2	Energy used in Total	37390 kWh	35584 kWh	37390 kWh	34292 kWh		
	Dist Board G/0/3	Energy used in Total	31472 kWh	30608 kWh	31472 kWh	29821 kWh		
	Dist Board G/0/4	Energy used in Total	1422 kWh	1422 kWh	1422 kWh	1422 kWh		
	Dist Board G/1/1	Energy used in Total	40503 kWh	39220 kWh	40503 kWh	38065 kWh		
	Dist Board G/2/1	Energy used in Total	18948 kWh	18303 kWh	18948 kWh	17767 kWh		
	FIRST RISER F 1	Energy used in Total	37261 kWh	36141 kWh	37261 kWh	35152 kWh		
	FIRST RISER G 2	Energy used in Total	40546 kWh	39261 kWh	40546 kWh	38103 kWh		
	GROUND RISER F 1	Energy used in Total	89398 kWh	85752 kWh	89398 kWh	82500 kWh		
	GROUND RISER F 2	Energy used in Total	7267 kWh	6996 kWh	7267 kWh	6727 kWh		
	GROUND RISER G 2	Energy used in Total	47660 kWh	46061 kWh	47660 kWh	44618 kWh		

Selecting the 'view' button will automatically display a graph of the current day values



Selecting the 'zoom out' button will automatically display a graph of the current month's values; zoom out again to display the current year's data.

