

Case Study: The Pods

The Pods is a leisure centre based in Scunthorpe and the project was to provide dashboard screens displaying various conditions, this included swimming pool temperatures, electricity consumption against target settings as well as energy savings made using their Biomass boiler against the traditional gas boiler. There was also a demand to show mains water consumption against harvested rainwater.



Application Overview

"Leisure Centre : Application Overview "

"Please select your Imperium Energy app "

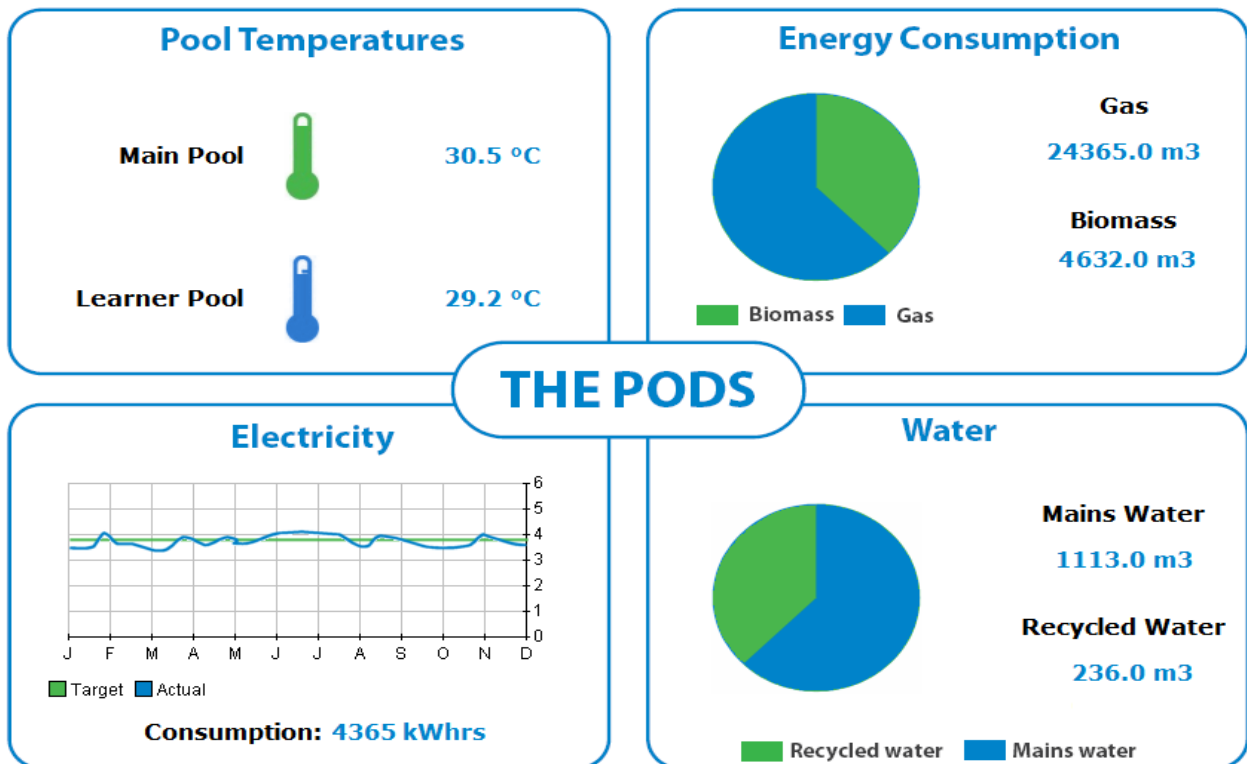


Building Energy Performance



Data Mining

Bespoke applications were designed to display these readings in a live graphical format which make the application more visual. The temperatures are set the display text values as well as in a live graphical thermometer. The energy & water consumption values are displayed in text & live pie chart graphics. The screens are refreshed automatically and data collected half hourly.



The 'data mining' application 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 and can retrieve detailed historical data for each point which can also be converted into an excel spreadsheet



Application Overview

"Leisure Centre : Data Mining Overview "

Select:	Outstation ID :	Sensor Label :	Value :	Avg :	Max :	Min :	High :	Low :
<input type="checkbox"/>	Plantroom Control Panel - A	Bio Heat Meter Total	3 MWh	2 MWh	3 MWh	1 MWh		
<input type="checkbox"/>	Plantroom Control Panel - A	Elec Meter Total	4365 kWh	2436 kWh	4365 kWh	0 kWh		
<input type="checkbox"/>	Plantroom Control Panel - A	Gas Meter Total	24365 m3	17572 m3	24365 m3	9866 m3		
<input type="checkbox"/>	Plantroom Control Panel - A	Learner Pool Return Temp	30 DegC	30 DegC	32 DegC	26 DegC		
<input type="checkbox"/>	Plantroom Control Panel - A	Main Pool Return Temp	29 DegC	29 DegC	30 DegC	26 DegC		
<input type="checkbox"/>	Plantroom Control Panel - A	MCWS Water Meter Total	1113 m3	1045 m3	1113 m3	495 m3		
<input type="checkbox"/>	Plantroom Control Panel - A	Target Electricity kWh	0 kWh	0 kWh	0 kWh	0 kWh		
<input type="checkbox"/>	Plantroom Control Panel - A	Target Water m3	0 kWh	0 kWh	0 kWh	0 kWh		



http://localhost/DataMining/MonthlyExcel.asp?Compa...

A1 fx Log Title

	A	B	C	D
1	Log Title	Value	Units	Date /Time
2	Energy used in Total	3934.5	kWh	01/06/2011 00:00:08
3	Energy used in Total	3938	kWh	02/06/2011 00:00:05
4	Energy used in Total	3940.4	kWh	03/06/2011
5	Boiler Gas Meter Total	0	M3	04/06/2011 10:30:03
6	CAT 5 Water Meter Total	0	M3	04/06/2011 10:30:03
7	Energy used in Total	3942.8	kWh	04/06/2011 00:00:01
8	Boiler Gas Meter Total	0	M3	05/06/2011 00:00:03
9	CAT 5 Water Meter Total	66	M3	05/06/2011 00:00:03
10	Energy used in Total	3945.2	kWh	05/06/2011 00:00:03
11	Boiler Gas Meter Total	66	M3	06/06/2011 00:00:09
12	CAT 5 Water Meter Total	135	M3	06/06/2011 00:00:09
13	Energy used in Total	3947.9	kWh	06/06/2011 00:00:09
14	Boiler Gas Meter Total	170	M3	07/06/2011 00:00:01
15	CAT 5 Water Meter Total	595	M3	07/06/2011 00:00:01
16	Energy used in Total	3950.4	kWh	07/06/2011 00:00:01
17	Boiler Gas Meter Total	259	M3	08/06/2011 00:00:02
18	CAT 5 Water Meter Total	1055	M3	08/06/2011 00:00:02
19	Energy used in Total	3952.9	kWh	08/06/2011 00:00:02
20	Boiler Gas Meter Total	363	M3	09/06/2011 00:00:05
21	CAT 5 Water Meter Total	1513	M3	09/06/2011 00:00:05
22	Energy used in Total	3955.4	kWh	09/06/2011 00:00:05
23	Boiler Gas Meter Total	452	M3	10/06/2011 00:00:09
24	CAT 5 Water Meter Total	2035	M3	10/06/2011 00:00:09
25	Energy used in Total	3957.9	kWh	10/06/2011 00:00:09
26	Boiler Gas Meter Total	547	M3	11/06/2011 00:00:03
27	CAT 5 Water Meter Total	2508	M3	11/06/2011 00:00:03
28	Energy used in Total	3960.4	kWh	11/06/2011 00:00:03
29	Boiler Gas Meter Total	630	M3	12/06/2011 00:00:09
30	CAT 5 Water Meter Total	2597	M3	12/06/2011 00:00:09
31	Energy used in Total	3962.9	kWh	12/06/2011 00:00:09

MonthlyExcel 1 /

