

# Energy Saving Week – February 9<sup>th</sup> to 13<sup>th</sup> 2009 Make a Change

Jason Taylor – Energy Manager



Energy Manager – responsible for Energy Reduction, energy management and improving the energy performance of our buildings

The energy saving week kicks off the ongoing energy awareness campaign. We all have a part to play in reducing energy and the aim of this week is to show you –

- The issues surrounding energy use
- What steps you can take to reduce your energy use at work and home.

# How much do Southampton City Council spend on energy?



## **NON Housing -**

### **Includes -**

- Civic Buildings
- Leisure Centres
- Car parks
- Streetlighting
- Residential Care
- Schools

## 2007/08 – reported figures

Utility	Energy Consumption	Cost	CO <sub>2</sub> Emissions
	(kWh/year)	(£/year)	(Tonnes)
<b>Total Energy</b>	<b>86,084,374</b>	<b>£4,213,608</b>	<b>26,740</b>



### Civic Centre – Example costs

**December 2008**

**Electricity – Approx £22k similar every month**

**Geothermal - £37k changes on a monthly basis**

**Summer Geothermal heating costs is Approx £12k per month!!**

**Any small change to our working practices can make a huge difference.**

## What's happening already?

- Salix Invest to Save Energy Efficiency Fund
- Other EE Projects
- Energy Management
  - Structured approach
- Renewables
- Legislation



1. **Salix Invest to save Fund - £408K match funded by Salix external government funding body. Projects included everything from the largest pool cover in the country installed at the quays leisure centre to small timeclocks installed to hot water heating boilers. The sites we've installed energy efficiency measures range from the Civic Centre to Weston Park Junior School.**
2. **Savings achieved to date from fully commissioned projects equate to in excess of 580 tonnes of CO2 and £75k per annum. Includes timeclocks on hot water heaters and kettles on Civic centre and other admin buildings.**
3. **Other EE projects – IT – already working on this – powerdown (night watchman) , screensavers, thin clients, servers. Car parks – lighting upgrade of west park car park in progress.**
4. **Energy management – Energy policy in draft – taking forward, Energy management software – in progress. Will enable sites to input meter reads & help with correct billing, reporting and sites analysis. Procurement and operational procedures in the pipeline.**
5. **Renewables – Schools – Freemantle 6 kW PV cells on schools roof. More schools taking up renewables through ongoing programme. Assessing other sites & housing to include biomass.**
6. **Legislation – Energy Performance in buildings directive including DEC's for all buildings >1000m2 and coming to >250m2 buildings very soon. Carbon reduction commitment which came out of climate change bill. Will come into effect in April 2010.**



**Argentina's Upsala Glacier was once the biggest in South America, but it is now disappearing at a rate of 200 metres per year.**

**Other scientists say its reduction is due to complicated shifts in glacial dynamics and local geology.**

**Localised flooding can cause mayhem to our transport infrastructure. Small floods locally at Latchmoor in the New Forest. Sway to Brockenhurst Road. Larger scale issue will cost the country in economic, environmental and social aspects.**



Can you all to switch all IT equipment, Lighting and non essential small appliances like