

Carbon Management Update 2010-2012



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for the Support Services OSP
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Carbon Management Drivers... reminder



- **Environment,** Climate Change ...
- **Energy Security,** Depletion of fossil resources ...
- **Cost,** PCC: 20% energy cost increase since 2010 ...
- **Legislation,** Carbon Reduction Order 2010 ...
- **Reputation,** CRC Performance League Table ...



Carbon Management Plan 2010-2015



“To reduce CO₂ from Plymouth City Council and Schools operations by 20% by 2014/15 from 2009/10 levels” through:

Progress to date

- **Invest to Save projects**

Salix projects, Schools boilers, Accommodation strategy, Server Virtualisation, ...



- **Improved Energy Management**

Electronic invoice processing and verification, Smart meters, Strategic procurement, ...



- **Improved Awareness**

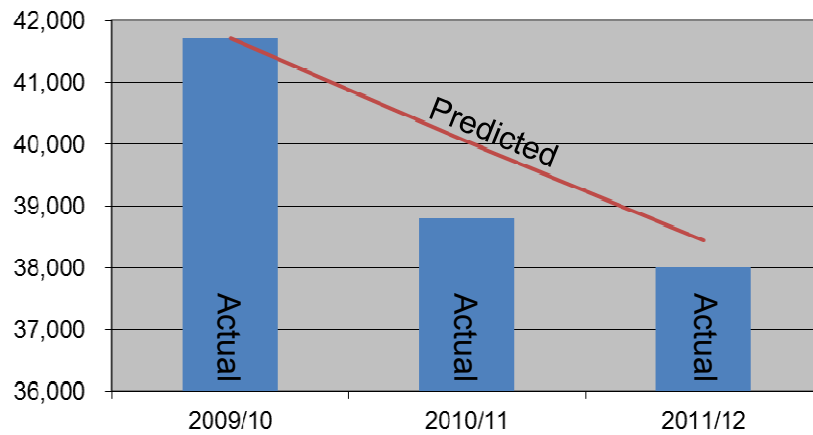
Presentations to schools and staff, Sustainability action required in Business Plans, ...



Trends 2010-2012



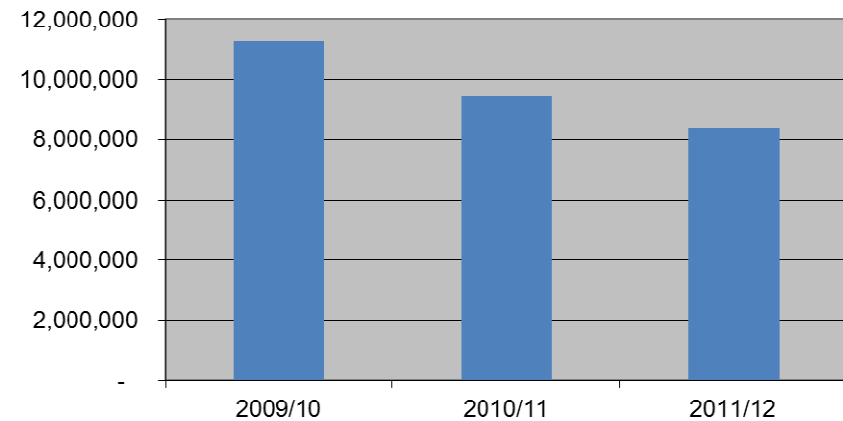
Tonnes CO₂e



9.1% CO₂ reduction

25% Cost reduction*

Spend (£)



*Improved energy procurement in mid 2009 also plays a role



What we are measuring (using ISO14064 standard)



Category	2009/10		2010/11		2011/12		CO ₂ e vs prev fy	
	£ 2009/10	2009/10 tCO ₂ e	£ 2010/11	2010/11 tCO ₂ e	£ 2011/12	2011/12 tCO ₂ e	↓/↑	%
Air	111,341.43	78.15	65,767.09	46.16	36,528.12	25.64	↓	44.46%
Rail	239,057.88	122.31	163,879.98	83.84	107,889.28	55.20	↓	34.17%
Taxi	187,874.89	35.47	169,730.80	32.04	105,312.20	19.88	↓	37.95%
Diesel from Fleet	1,731,043.13	2,283.25	1,058,926.79	1,890.12	1,165,384.28	2,070.36	↑	8.71%
Car Business mileage	1,088,485.27	725.21	1,097,930.85	830.01	892,198.82	575.59	↓	30.65%
Heating Oil*	338,234.59	1,283.00	397,310.37	1,090.81	215,247.26	1,363.06	↑	19.97%
Natural Gas	1,557,233.00	10,403.12	1,191,467.69	8,867.63	843,732.83	8,237.50	↓	7.11%
Electricity	4,518,728.38	24,697.45	3,764,651.91	23,446.92	3,746,588.40	22,843.51	↓	2.57%
Water	1,219,500.39	301.94	1,209,343.95	288.83	1,006,420.51	305.53	↑	5.78%
Waste	276,354.09	1,776.32	321,710.76	2,217.07	271,088.63	2,499.21	↑	12.73%
Total	11,267,853.05	41,706.21	9,440,720.19	38,793.45	8,390,390.33	37,995.48	↓	2.06%

*Data inconsistencies



Carbon Management: the future



- **A new wave of ItS projects** (Efficiency in public buildings pledge)
- **Electronic Billing for Water** (Efficiency in public buildings pledge)
- **Improved Waste Management** (Efficiency in public buildings pledge)
- **Improved Energy Management** (Efficiency in public buildings pledge)
- **Staff Awareness Plan & Implementation** (Green Workplaces Scheme pledge)



Questions?

