

# Sefton Council Carbon Management Programme

# Carbon Management Plan (CMP) 2011 - 2016



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#### Foreword from the Chief Executive



At a time of increasing economic and environmental pressures, I am pleased to be able to present Sefton's second Carbon Management Plan. Building on the success of the first plan, alongside Sefton's long standing commitment to reducing resource use, operating costs and environmental impact, this new plan recognises the opportunities and challenges we face in identifying opportunities for carbon savings in difficult financial times, which will have positive outcomes for our Council, residents and service users. As such, this Carbon Management Plan sets out the Councils contribution to addressing the issues of climate change together with financial sustainability.

Sefton are committed to early action, recognising that the carbon reduction agenda offers an opportunity to realise long term savings and will ensure that this plan makes an important contribution to the reputation of Sefton as a good place to live and work. Whist issues of climate change mitigation and adaptation remain a true challenge, the Energy and Environment Management Section will engage with all areas of our organisation to foster a culture of carbon reduction and energy savings as an integral aspect of Council life, thus ensuring the ambitious carbon reduction targets are met locally and nationally.

Margaret Carney Chief Executive Sefton Council



#### **Foreword from the Carbon Trust**

Cutting carbon emissions as part of the fight against climate change should be a key priority for all public sector organisations. Carbon management is about realising efficiency savings, transparency, accountability and leading by example. The UK government has identified the public sector as key to delivering carbon reduction across the UK in line with its Climate Change Act commitments and the Carbon Trust's Local Authority Carbon Management Programme is designed in response to this. It helps organisations to save money on wasted energy and put it to better use in other areas, while making a positive contribution to the environment by lowering carbon emissions.

Sefton Council partnered with the Carbon Trust on the alumni stream of this programme in 2010-2011 to realise substantial carbon and cost savings. This Carbon Management Plan commits Sefton Council to a target of reducing CO<sub>2</sub> by 25% by March 2016 and underpins potential financial savings and cost avoidance to the organisation of around £7 million by that date.

Public sector organisations can contribute significantly to reducing CO<sub>2</sub> emissions and improving efficiency. The Carbon Trust is therefore very proud to support Sefton Council in their on-going implementation of carbon management.

Richard Rugg

Director, Carbon Trust Programmes

Carbon Trust



### **Executive Summary**

#### **Sefton Council Carbon Commitment:**

- Carbon Management will be central to the way we provide services and run our business
- We will invest resources in practical measures which will reduce our carbon footprint and associated costs
- Key Partners Capita Symonds and Avarto will be bound to reduce carbon and cost from services delivered on behalf of the Council
- Every member of our staff will be directly involved in our carbon reduction programme
- ❖ We will support our customers and partners in their own carbon reduction efforts
- The strategic themes will link to existing policies as well as new policy standards to ensure carbon Management is embedded across all of the organisations everyday operations.
- ❖ As council policy all departments' service plans will include carbon management objectives and targets.

#### **Sefton Council Carbon and CRC Cost Footprint**

The Council's carbon footprint for 2009/10 was 35,709 tonnes of CO<sub>2</sub> based on energy use in all Council buildings, including community schools, street lighting and fleet transport and business miles travelled.

|                                  |                        | tCO2 2009/10 | CRC cost @ £12<br>p/tonne | %    |
|----------------------------------|------------------------|--------------|---------------------------|------|
|                                  | STREET LIGHTING        | 7,959        | 95,510                    | 22%  |
| BUILDINGS AND<br>STREET LIGHTING | CORPORATE<br>BUILDINGS | 12,836       | 154,032                   | 36%  |
|                                  | SCHOOLS                | 11,932       | 143,184                   | 33%  |
| TRANSPORT                        | FLEET                  | 2,304        | N/A                       | 6%   |
| THAINGI OTTI                     | BUISNESS               | 678          | N/A                       | 2%   |
|                                  |                        | 35,709       | 392,726                   | 100% |

Figure 1: Summary of Baseline emissions and associated costs under CRC EES 2009/10



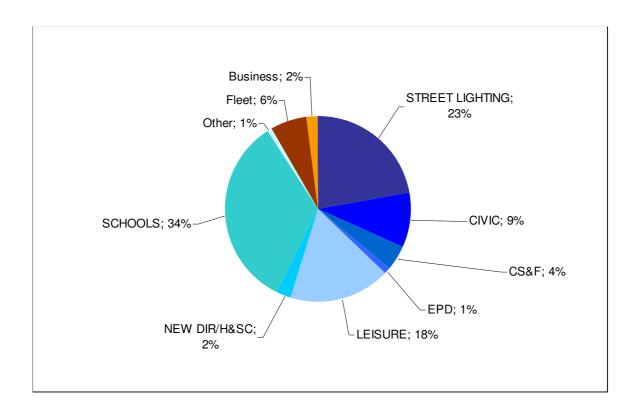


Figure 2: Breakdown by directorate of emissions baseline for 2009/10

#### **Carbon Footprint Headlines**

- ❖ Almost 70% of the Councils carbon emissions are generated by energy use in buildings with the remainder by travel and street lighting
- ❖ The associated total cost to the Council was £6.5 million in 2009/10
- This represents an annual at risk trading cost under the CRC EES of almost £400K
- ❖ Council fleet and staff travel for services is 8% of total emissions

This Carbon Management Plan (CMP) sets out a 5 year programme of actions designed to reduce our carbon emissions and mitigate associated revenue costs by 25% by March 2016, this will be achieved through 6 key areas:

- 1. Assets reducing energy consumption across all corporate sites and schools
- 2. Sustainable Business Travel Reducing the need to travel for business, facilitating the choice of sustainable and low carbon modes and saving costs through the adoption and implementation of Sefton Council Travel Plan



- 3. Decarbonising Fleet developing a low carbon procurement policy
- 4. Street Lighting developing a strategic approach to replacing stock and utilising energy saving technologies
- 5. Low Carbon Organisational Change staff awareness raising, carbon budgeting, putting policy in place to ensure sustainable procurement,
- 6. Information Management emphasis placed on monitoring and targeting of energy use

Target: Sefton Council will reduce the CO<sub>2</sub> emissions from its activities by 25% (8,927tonnes) from the 2009/10 baseline by 2016

Along side the strategic themes listed above, the CMP is fundamentally a comprehensive programme of energy efficiency improvements across Council buildings and street lighting assets, as well as introducing cultural changes to the manner in which we use our buildings, procure services and travel.

The projects detailed in this CMP propose to reduce the council's emissions over 5 years by 8,927 tonnes of  $CO_2$ . The projects identified total 90% of our target, which is 23% of the baseline. It is estimated that the cost of implementing these projects is £8 million, with an estimated payback period of 3 years. Within this, some schemes bring financial return in terms of tariffs for generating renewable energy. Funding for the projects is currently limited to year one (2010/11) and a £100K ring fenced invest to save fund established for Civic Buildings with investment from Salix (Carbon Trust). For the plan to succeed and for reductions in energy and carbon costs to be achieved, it is essential that financial backing is given and sustained over the next 5 years.

The following graphs demonstrate the reduced emissions scenario detailed in this plan compared to the business as usual scenario, both in terms of carbon emissions and costs – that is, if the Council took no action to reduce its consumption and emissions (see figure 3). By reducing our emissions the Plan will also enable us to avoid costs of £7 million over the 5 years the plan covers (see figure 4). With savings/cost avoidance continuing to be realised for many more years if completed actions are maintained.



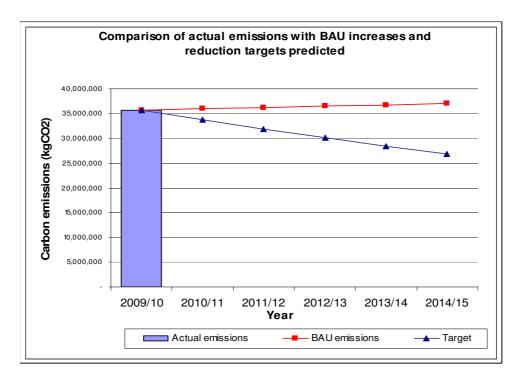


Figure 3: Carbon Emissions at Stake - Reduced emissions 'versus' do nothing scenario

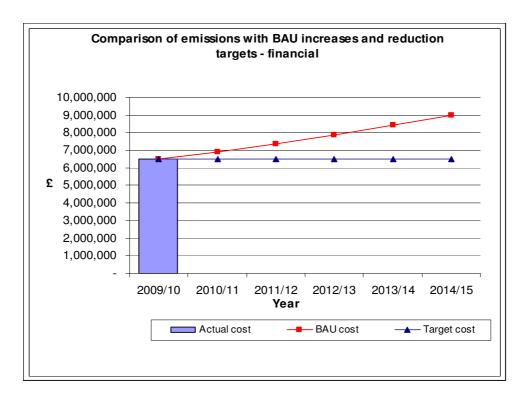


Figure 4: Financial Value at Stake - Reduced emissions 'versus' do nothing scenario



#### 1. Introduction

Sefton Council is firmly committed to reducing its environmental impact, resource use and operating costs. In 2006 we were the first Merseyside local authority to produce a Carbon Management Plan, bringing an identified 13.5% reduction in carbon emissions exceeding original targets.

This CMP has been developed by the Councils Carbon Management Project Team, which was established across all areas of the Council following a successful bid to be supported by the Carbon Trust to join its Alumni Programme. This was designed to assist previous carbon management local authorities develop a new 5 year CMP.

As Carbon Management Plan Alumni we have been able to build on the success of the past plan and create a plan based on the challenges the council now faces. With increasing energy and water costs and the introduction of the Carbon Reduction Commitment Energy Efficiency Scheme (CRC EES) in April 2010, now is the time to focus on reducing consumption to mitigate further financial burden.

Past Successes include:

Reduction in waste to landfill by increased recycling

Cycle Salary Sacrifice Scheme

Folding bikes for staff travel

'Waste Busters' Staff campaign

£100K Civic Buildings 'invest to save' fund -Funding projects with life time savings of over 6,300 tonnes of CO<sub>2</sub> to date

Having a Carbon Management Plan in place defines the strategic and practical process the authority is taking to reduce its carbon emissions and meet the target set. This plan seeks to adopt a whole business approach, meaning that no individual department is wholly responsible, but the objectives of carbon reduction are imbedded across all of our activities.

The project team has used the 5 step process below to progress from the plans inception to embedding the actions developed. The identification and quantification,



along with the implementation and embedding is a fluid aspect of the plan, which will continue throughout the plans time span.



Benefits that having a Carbon Management Plan bring to our organisation:

- Reduced energy costs
- \* Reduced liability and greater accuracy for CRC reporting
- Sustainable and transparent working practices
- Greater responsibility and understanding of climate change mitigation and adaptation

As part of the plan we have also adopted a range of policies and working practices that have enabled us to be a more sustainable authority. We have introduced through the plan policies relating to carbon management, which over the course of the next 5 years will complement the practical energy efficiencies being made through individual, specific projects (see section 4). These policies will be discussed in greater detail in section 2.

The project team has senior level representation from Director's and Service Head's – and it is from this level that imbedding carbon management as a corporate strategy will be sought. Internal awareness and behavioural change across the organisation will be established by the inclusion of Carbon Management principals in all service plans. In addition our political champion Councillor Shaw will be able to report on the progress and success of the plan back to cabinet.



## 2. Carbon Management Strategy

## Saving Sefton's Money: Saving Sefton's Carbon

#### 2.1 Context and drivers for Carbon Management

In the five years since Sefton Council published its last Carbon Management Plan the drivers have not changed, however the context in which we view the drivers has evolved. The impact of the global recession and change in government in 2010 has placed an oppressive financial burden on Local Authorities and in order to meet the challenges faced, Sefton must seek ways to transform and operate in the most efficient way it can.

As this plan is endorsed and imbedded in council policy, carbon management must be treated as a core element of all of Sefton's services, this way maximum financial and carbon savings can be achieved. Along with the current Transformation process, carbon management is part of providing modern council services to its stakeholders, and as such it should be seen as the responsibility of every Sefton employee.

#### **Environmental and Global Drivers**

- Global warming and climate change the Stern Review (2006) concluded that the benefits of taking early action to tackle climate change far out weigh the investment costs
- Impacts of Climate change on Sefton's coastline over the next 20-100 years are likely to include:
- ✓ A rise in maximum summer temperatures by 2-4 c
- ✓ The warmest day of the year to rise by 4 c
- ✓ Increased occurrence of "mini heat waves"
- ✓ Summer rainfall may decrease by on average 11%
- ✓ Winter rainfall may increase on average by 20%
- ✓ Extreme storms may be more frequent and intense with rainfall events in excess of 150-200mm in one day leading to increased flooding events
- ✓ Sea levels may rise by up to 85cm.

#### **Local and National Drivers**



- ❖ Rising energy costs it is estimated that by the end of this decade, fuel prices will be 80% higher.
- Sefton Council's Transformation process adapting working practices to make efficiency savings – both in energy consumption and working practices.
- Merseyside's Local Transport Plan (LTP) Sets out the proposals for developing Merseyside's Transport system until 2024 whilst setting out some key priorities for the short term until 2015.
- ❖ The Carbon Reduction Commitment (CRC) Energy Efficiency Scheme in force from April 2010 this is effectively a tax on public and private organisations CO₂ emissions.
- ❖ Reporting obligations to DECC on greenhouse gas emissions from Local Authority own estate and operations successor to the National Indicator 185.
- ❖ EU Energy Performance of Buildings Directive this requires Display Energy Certificates (DEC's) to be displayed in all public buildings over 1000m2. Industry experts predict that the requirement for certificates will be extended to include smaller public buildings from 2013.

# Failure to achieve reductions in energy use and carbon emissions will result in:

- Increased energy bills across the authority
- **❖** Annual increases in costs under the CRC Energy Efficiency Scheme
- ❖ A negative image in the community as we are seen to be wasting public funds and failing to act as a beacon of sustainability
- ❖ The authority contributing towards the local, national and global, negative impacts of climate change.



#### 2.2 Targets and objectives

Sefton Council will reduce the CO<sub>2</sub> emissions from its activities by 25% from the 2009/10 baseline by 2016

The projects and policies within the CMP will help us to reach this target.

Within the target are a number of other objectives which are carried through from our first CMP:

- 1. To reduce greenhouse gas emissions arising from the Councils operations in its buildings, vehicles/transport use, waste management, street lighting, procurement and ICT
- 2. To ensure that Caron Management is a common thread integrated through all service plans
- 3. To bind to together existing and future polices/strategies under a single Umbrella of Carbon Management
- 4. To become an environmental steward to the communities and businesses throughout Sefton, with the intention to catalyse action on reducing emissions.

## 2.3 Strategic themes

In order to achieve the target and objectives, strategic themes have been established to bring into focus to the identified projects as well as encompassing the wider issues of the CMP.

- 1. To reduce carbon emissions from council operations
  - Strategic Asset management to reduce building emissions corporate assets make up 33% of our baseline. We will use resources to target poor performing buildings and maximise renewable energy opportunities in high performing buildings
  - ❖ Low Carbon and Sustainable Business travel & Decarbonising Fleet transport makes up 8% of our baseline. We will reduce emissions through successfully implementing our staff travel plan by through a variety of measures.



- Street lighting makes up 23% of our baseline. We will reduce emissions by working with Capita Symonds to develop a strategic policy for implementation and funding of energy saving technologies including LED replacements and dimming of street lighting.
- ❖ School's represent 34% of our total baseline. We will develop a programme to work with schools to identify those with higher than typical emissions and help put energy policies in place to enable them to reduce their energy use. To ensure long term success a whole school approach must be taken to involve the pupil and staff body.
- Procurement directly influences the carbon emissions from all of our operations. We will work in partnership with our procurement team to adjust our day to day operations and deliver lower emissions from the goods and services procured.
- 2. Embed Carbon Management across all current and future council policy and procedure
  - \* Review and fully implement the Councils, sustainable procurement policy;
  - work with Arvato and Capita Symonds to develop low carbon best practice in our supply chain;
  - Ensure carbon management is seen as a core a value for the authority
  - committing staff to carbon reduction activities
  - Help service managers incorporate carbon management into their service plans, with measurable targets
- 3. Information Management and communication
  - Information Management utilising the roll out of automatic metering to improve monitoring and targeting to facilitate continued measurement of carbon emissions with greater accuracy
  - Provide opportunities for staff and site managers to monitor energy use on a daily basis
  - To report on the achievements of the plan



### 3. Emissions Baseline and Projections

In 2009/10 Sefton Council was responsible for the emission of 35,709 tonnes of CO2 costing the organisation £6.5 million

#### 3.1 Scope

The scope of the CMP is based on CO<sub>2</sub> emissions from all local authority functions, where the data has been available, this includes out sourced functions such as New Directions and schools. After discussions with the CM team only a small section of sites have been excluded from the scope and these are schools for which the authority has no governance over (aided schools). Transport emissions from fleet and business miles are included in the scope.

Excluded from the scope are  $CO_2$  emissions from waste, procurement, staff commuting and water. These have been excluded as insufficient data is available. If at a later date, baseline data is available for any of these areas then they will be included in revised versions of the CMP. The exclusion of these emissions from the scope highlights the importance of strategic themes, as the themes encompass the emissions outside of the scope of the baseline and will serve to have an impact on our emissions, even if they cannot be quantified by this plan.

As the scope includes sites and functions for which we have little or no control over, it has made the setting of our target more difficult as we know that reductions will be not be achieved equally across all areas of the authority.

#### 3.2 Baseline

A baseline has been established to allow us to measure future carbon reduction.

The baseline year for this CMP is 2009/10.

The data has been gathered from a number of sources:

- Suppler invoices
- Site meter readings



Transport and staff mileage, data supplied by Transport/fleet/recycling officers and the Finance department

Below is a the breakdown of total baseline emissions by directorate (as they were in 2009/10), along with the associated costs for the purchase of carbon allowances under the CRC (based on £12 p/t  $CO_2$ )

NB: Currently transport is not included in CRC reporting obligations

| Catego                         | Category           |                |           | CRC<br>Cost £   |
|--------------------------------|--------------------|----------------|-----------|-----------------|
|                                | STREET<br>LIGHTING | 7.050          | 220/      | 95,508          |
|                                | CIVIC              | 7,959<br>3,344 | 22%<br>9% | 40,128          |
|                                | CS&F<br>EPD        | 1,593<br>386   | 4%<br>1%  | 19,116<br>4,632 |
| BUILDINGS AND<br>STREET LIGHTS | LEISURE &          | 6,286          | 18%       | 75,432          |
|                                | NEW DIR/H&SC       | 885            | 2%        | 10,620          |
|                                | SCHOOLS            | 11,932         | 33%       | 143,184         |
|                                | OTHER              | 341            | 1%        | 4,092           |
| TRANSPORT                      | FLEET<br>BUSINESS  | 2,304<br>678   | 6%<br>2%  | 0               |
|                                | LOGINESS           | 35,709         | 100%      | 392,712         |

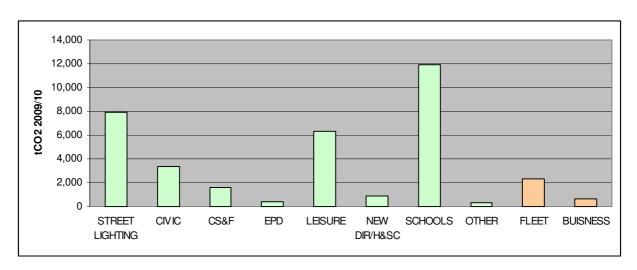




Figure 5: Summary table and chart of emissions for baseline year 2009/10

#### 3.3 Section on Display Energy Certificates

Since 2008 public buildings with a floor area of 1000m<sub>2</sub> and over are required under European Law to produce and display DEC's. Below is a summary of certificates produced during the base line 2009/10. (For sites which have multiple buildings over 100m<sub>2</sub>, with multiple ratings only the certificate for the main building has been counted.)

The level of data each DEC provides is a useful tool in identifying and prioritising energy saving projects, as further to the overall rating the consumption is benchmarked by electricity and heating demand.

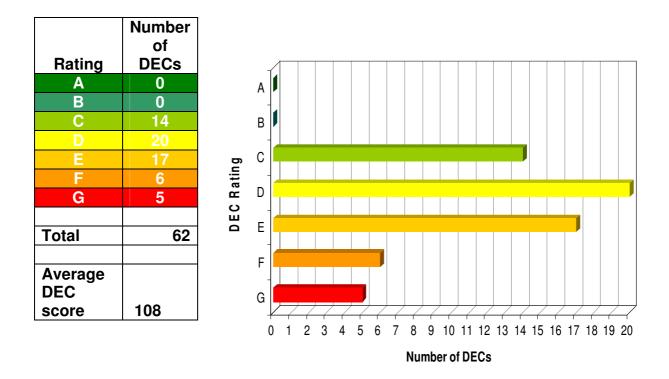


Figure 6: The above table and graph represent the Display Energy Certificate (DEC) ratings awarded to Sefton Buildings (including schools) with a floor area over 1000m₂ based on 2009/10 consumption data.

The DEC ratings have been utilised internally to identify and target the poorest performing buildings. This information is available for strategic asset management analysis in terms of the energy performance of buildings. Year on year analysis has also been used to identify successful projects. This approach has been formally analysed through a project carried out in conjunction with Liverpool John Moore's



University, where a primary school was singled out, with the intention of carrying out all the recommendations in the Advisory Report and monitoring whether or not the installations had a positive effect on the buildings DEC rating. The results show a successful drop in the overall operational rating of the building.

#### 3.4 Projections and Value at Stake

In 2009/10 Sefton Council was responsible for the emission of 35,709 tonnes of CO2 costing the organisation £6.5 million

If we take no action to reduce emissions, this has an estimated cumulative value of £7 million in utility costs, over the five years to 2015/16, against the business as usual model

It is predicted that if Sefton Council took no action to mitigate its carbon emissions that by 2015/16 emissions would reach almost 37,000 tonnes, with additional associated costs of £2.5 million.

These calculations are based on Carbon Trust and Sefton's assumption that

- ❖ The increase in energy demand for buildings and fleet/business travel will be 0.7% (source DTI/DBERR EP68)
- ❖ Annual energy prices will increase by 6% (NB: This is DECC prediction, however, prices for 2011/12 have already increased by 17.5% this has been taken into account in this plan, but future forecast increase at 6%)

Asset management will play a part in whether or not building decommissions or acquisitions will have a positive or negative impact on the total value at stake. However, as part of the CMP the push will be for portfolio rationalisation, which should cause a step change in emissions, reducing the overall value at stake.

The following graphs illustrate the value at stake in both terms of carbon and money. Using the baseline, emissions have been compared with the predicted business as usual increase and the reduced emissions scenario for the next 5 years. The difference between these end points is the value at stake.



In order to meet our target of 25% on 2009/10 emissions we must reduce our baseline emissions by 8,927 tonnes. In addition to avoiding increased energy costs, this also equates to a saving of  $\mathfrak{L}107,127$  in CRC allowances. The cumulative value at stake is estimated to be  $\mathfrak{L}7$  million against business as usual, although as we have already seen significant energy price increases this could well increase through out the next 5 years.

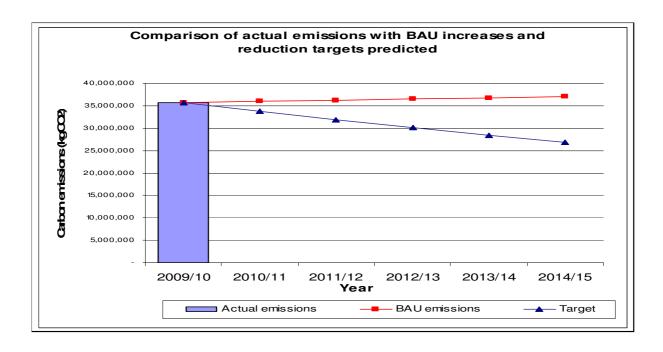


Figure 7: Carbon Emissions at Stake - Reduced emissions 'versus' business as usual scenario

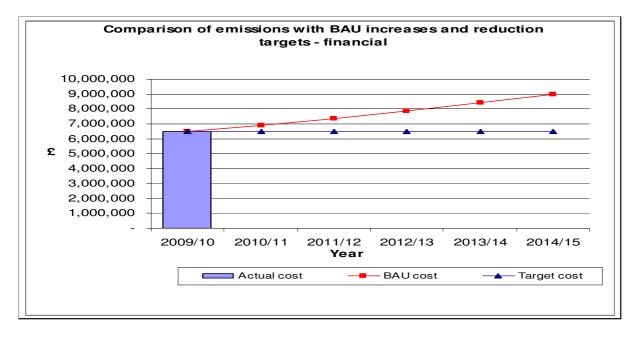


Figure 8: Financial Value at Stake - Reduced emissions 'versus' business as usual scenario



### 4. Carbon Management Projects

#### Projects identified total 90% of our 25% target

During the first year of the plan a number of projects have been successfully completed. These, along with the remaining projects listed in the following tables make up 92% of the targeted savings.

When identifying projects we have prioritised those that deliver both CO<sub>2</sub> and revenue savings. Furthermore projects are assessed to ensure that they deliver long term CO<sub>2</sub> savings based in the capital cost of CO<sub>2</sub> saved over the life time of the project.

Due to public sector spending restrictions, funding has been limited and is not fully committed past year one, projects identified are realistic for the length of the plan. Emphasis has been placed on monitoring and targeting of energy use and raising staff awareness to reduce consumption. Savings for these types of programmes rely as much on staff buy-in and officer time as they do on the technology used so combining the strategic themes of information management and imbedding carbon awareness within policy changes will be key to making these projects a success.

Established technologies such as cavity and loft insulation, motorised pool covers and variable speed drives have been successful projects. We have also made use of new technology, such as LED lighting at Bootle Strand Car Park which has been equally as successful, giving us confidence to identify and install similar projects across the portfolio.

Advancements in street lighting technology and changes in standards has allowed us to roll out a programme of replacing some previously lit road bollards, with easy to clean, flexible high reflective bollards, reducing their energy consumption to zero. Street lighting dimming is becoming increasingly the norm across local authorities and we believe that the upcoming local consultation will pave the way for Sefton to roll out the technology and exceed the savings identified in project 11.

Although business travel accounts for only 2% of the carbon baseline figure the council still views it as an important issue as additional financial savings can be made through reviewing business mileage policy and budgets. Encouraging the use of walking, cycling, public transport and car share during working hours has a range of wider benefits including, reduced demand on long stay car parking and a healthier workforce.



Alongside energy savings are inherent operational savings; these have not been fully quantified identified but will where possible be captured in future reporting.

## 4.1 Existing projects

|     |  |                     | Cost    | Annual Sa            | vings (yr 1) |                   |                |      |
|-----|--|---------------------|---------|----------------------|--------------|-------------------|----------------|------|
| Ref | Project  | Lead                | Capital | Financial<br>(Gross) | tCO2         | Pay back<br>(yrs) | % of<br>Target | Year |
| 1   | Bootle Town Hall<br>Draught proofing                         | Stephanie<br>Hopkin | £15,414 | £1,712               | 10.5         | 9                 | 0.12%          | 2010 |
| 2   | Bootle Town Hall Roof<br>Insulation                          | Stephanie<br>Hopkin | £9,136  | £2,012               | 12.3         | 4.5               | 0.14%          | 2010 |
| 3   | Southport Town Hall<br>Boiler House insulation               | Stephanie<br>Hopkin | £2,250  | £400                 | 2.5          | 5.6               | 0.03%          | 2010 |
| 4   | Various Insulation jobs in<br>Children's Homes and<br>Hostel |                     | £7,208  | £6,004               | 36.8         | 1.2               | 0.41%          | 2010 |
| 5   | Crosby Civic Hall/Library<br>Cavity Wall Insulation          | Christine<br>Hall   | £6,857  | £11,093              | 68           | 0.6               | 0.76%          | 2010 |
| 6   | Variable Speed Drive's<br>Dunes/Splashworld                  | Scott<br>Stevens    | £20,685 | £14,956              | 81.4         | 1.4               | 0.91%          | 2010 |
| 7   | Vending Machine 7 Day<br>timers - Various sites              | Stephanie<br>Hopkin | £912    | £2,939               | 16           | 0.3               | 0.18%          | 2010 |
| 8   | Bootle Multi Storey Car<br>Park LED Lighting<br>Scheme       | David<br>Marrin     | £60,000 | £18,993              | 103.4        | 3.2               | 1.16%          | 2010 |
| 10  | Dunes Motorised Pool covers                                  | Scott<br>Stevens    | £29,393 | £9,972               | 61.1         | 2.9               | 0.69%          | 2010 |
| 15  | PC Power down across corporate buildings                     | Linda<br>Price      | 03      | £1,657               | 9            | 0                 | 0.10%          | 2010 |
| 17  | Bootle Leisure Centre<br>Variable Speed Drives               | Nicola<br>Macaulay  | £24,640 | £20,516              | 111.6        | 1.2               | 1.25%          | 2010 |
| 30  | Magdalen House Lighting<br>Controls                          | Stephanie<br>Hopkin | £13,289 | £2,923               | 15.9         | 4.5               | 0.18%          | 2010 |
| 18  | Bootle Leisure Centre<br>Pool Cover                          | Nicola<br>Macaulay  | £17,429 | £10,909              | 66.9         | 1.6               | 0.75%          | 2010 |
| 22  | Fridge rationalisation                                       | Stephanie<br>Hopkin | £0      | £245                 | 1.3          | 0                 | 0.01%          | 2010 |
|     |  |                     |         |                      |              | TOTAL             | 6.69%          |      |

Figure 9: Projects which been funded and implemented during 2010/11



#### 4.2 Planned / funded projects

The projects listed below are planned and funded projects (fleet driver training has already been rolled out). These projects are financed and will be delivered and during 2011/12.

|               |  |   | Cost     | Annual Savi          | ngs (yr 1)     |                   |                |      |
|---------------|--|---|----------|----------------------|----------------|-------------------|----------------|------|
| Ref           | Project  | Lead                                    | Capital  | Financial<br>(Gross) | tCO2           | Pay back<br>(yrs) | % of<br>Target | Year |
| 21            | Re launch Waste busters Campaign/Site support              | lan Weller/<br>Stephanie<br>Jukes       | £5,000   | £415,954             | 2288.3         | 0                 | 25.63%         | 2011 |
| 12            | AMR across portfolio                                       | lan Weller                              | £260,000 | £415,954             | 2288.3         | 0.6               | 25.63%         | 2011 |
| 23            | Fleet Driver Training                                      | Vin<br>Donnelly                         |          |                      |                | Not quantified    |                |      |
| 20, 24,<br>28 | Reducing Business<br>Miles (Sefton Council<br>Travel Plan) | Lee Davies                              | £1,000   | твс                  | Not quantified |                   |                | 2011 |
| 25            | Fleet Zoning   | Gary<br>Berwick                         | £1,000   |                      | Not quantified |                   |                | 2011 |
| 31            | Eco Centre LED lighting scheme                             | Stephanie<br>Hopkin                     | £7,000   | £2,300               | 12.5           | 3                 | 0.14%          | 2011 |
| 32            | Low Emission Procurement Tool                              | Stephanie<br>Jukes /<br>Brian<br>Gibson |          |                      | Not quantified |                   |                | 2011 |
|               |  |   | <u> </u> |                      |                | TOTAL             | 51.40%         |      |

Figure 10: Projects which are funded and will be fully implemented during 2011/12

The table above includes two major projects, upon which a large proportion of the baseline savings are hoped to be achieved. Installing automatic metering will not atomically reduce consumption. Instead it relies upon the proactive approach to analysing and monitoring the output data and taking the appropriate targeting response. Our energy database will be updated to ensure data flows are in place and profile alarms set to alert the team to any significant problems. However, this remains a time consuming exercise and also requires a commitment from someone at site level, to implement any necessary changes – for example altering time clocks on boilers/lights. The Energy and Environmental Management Team will be in charge of overall monitoring, but we will engage with schools and site managers to actively encourage them to look at their own sites consumption, in turn this encourages responsibility at site level.

The second project which is fundamental to the success of the plan is the re-launch of the communications campaign. Ensuring a successful level of savings from behavioural change is hard work and requires a sustained effort not only from the project leaders, but every officer within the council. Adopting and changing working practices with energy efficiency in mind can be as simple as remembering to turn of your computer screen when you go out for meeting, yet for this to have an effect on



reducing overall baseline consumption it must be adopted across the board. Morn information on this can be found in section 6.3.

#### 4.3 Near term projects

|     |   |                  | Cost     | Annual Savings (yr<br>1) |               | _                    |                |                           |
|-----|---|------------------|----------|--------------------------|---------------|----------------------|----------------|---------------------------|
| Ref | Project   | Lead             | Capital  | Financial<br>(Gross)     | tCO2          | Pay<br>back<br>(yrs) | % of<br>Target | Year                      |
| 9   | Street lighting Bollards<br>to High Reflective no.<br>255 | Paul<br>Scott    | £54,422  | £4,918                   | 26.8<br>tCO2  | 11.1                 | 0.30%          | Part<br>Funded<br>2010/11 |
| 13  | Illuminated Signs to<br>LEDs no. 2686                     | Paul<br>Scott    | £214,900 | £18,267                  | 99.4<br>tCO2  | 11.8                 | 1.11%          | Part<br>Funded<br>2010/11 |
| 19  | Meadows Pool Cover  | Scott<br>Stevens | £17,000  | £10,890                  | 66.8<br>tCO2  | 1.6                  | 0.75%          | 2011                      |
| 11  | Street lighting Dimming<br>6000 Lamps                     | Paul<br>Scott    | £393,000 | £39,792                  | 216.5<br>tCO2 | 9.9                  | 2.43%          | 2012                      |
|     |   |                  |          |                          |               | TOTAL                | 4.59%          |                           |

Figure 11: Projects which are planned but not funded

## 4.4 Medium to long term projects

|     |  |               | Cost       |             | Annual Savings (yr 1) |                |                     |                |      |
|-----|--|---------------|------------|-------------|-----------------------|----------------|---------------------|----------------|------|
| Ref | Project  | Lead          | Capital    | Operational | Financial<br>(Gross)  | tCO₂           | Pay back<br>(yrs)   | % of<br>Target | Year |
| 26  | Tech Forge Estimate<br>Schools Boiler and double<br>glazing scheme   | Ivan Guy      | £2,500,000 |             | £301,620              | 1849.5<br>tCO2 | 8.3                 | 20.72%         | 2012 |
| 27  | Tech Forge Estimate<br>Corporate boiler and<br>double glazing scheme | lan Weller    | £1,000,000 |             | £47,503               | 289.4<br>tCO2  | 21.1                | 3.24%          | 2012 |
| 29  | Proposed Photo-Voltaic<br>(FiT) Scheme                               | Mo Kundi      | £3,992,120 | -£251,632   | £59,248               | 322.4<br>tCO2  | 12.8                | 3.61%          | 2014 |
| 14  | Trial Main Road Street<br>Lights to LED                              | Paul<br>Scott | £10,000    |             | £1,500                | 1.9 tCO2       | does not<br>payback | 0.02%          | 2013 |
|     |  |               |            |             |                       |                | TOTAL               | 27.59%         |      |

Figure 12: Projects which may take place before 2015/16, but are not yet planned in detail



Some of the medium to long term projects within the plan have estimated costs attributed to them, making them currently prohibitive. As further feasibility is done on these projects it is expected that these costs will be narrowed down in order to bring the projects in line with maximum paybacks of 7 to 10 years. If this is not possible then other projects will be identified to ensure the carbon savings are achieved, but not at excessive cost versus payback.

#### 4.5 Projected achievement towards target

The table below demonstrates how the projects identified to date are helping us achieve our target reduction of 25%. The short fall in emissions will be met by the continued generation of projects throughout the life of the plan and the successful implementation of the key elements within our strategic themes.

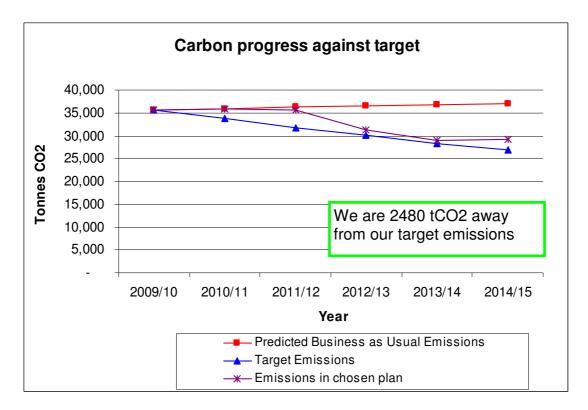


Figure 13: Progress against target



| Projects by Building<br>Category | Number of Projects | % of Target |
|----------------------------------|--------------------|-------------|
| Buildings - All                  | 2                  | 51%         |
| Buildings - Corporate            | 18                 | 14%         |
| Buildings - Schools              | 1                  | 21%         |
| Street Lighting                  | 4                  | 4%          |
| Transport                        | 6                  | 0%          |
| Total                            | 31                 | 90%         |

Figure 14: Summary table of the spread of projects across the baseline scope

Analysis of the table above demonstrates that greater engagement with schools is needed in order in increase the number of energy savings projects they are engaged in and that we are informed of their progress. A revised communication strategy with regards to targeting schools is now in place, with the aim of raising their awareness to behavioural change and advising on practical measures via an energy/water audit – more information on this can be found in section 6.8.



### 5. Carbon Management Plan Financing

The cost to install all the projects identified in this plan is over £8 million, this would enable us to reach 90% of our target. These savings have been summarised below.

Additional cost mitigation for the purchase of carbon allowances for the CRC would be over £100,000.

At the time of writing no additional sources of funding have been obtained to fund these projects, with the exception of year one projects and the Salix ring fenced budget of  $\mathfrak{L}100K$  for Civic Buildings. We are actively developing a range of financing options from both public/private sources to enable the delivery of both scoped and new projects.

NB: Some of the projects within the plan have estimated costs attributed to them, making them prohibitive. As further feasibility is done on these projects it is expected that these costs will be narrowed down in order to bring the projects in line with maximum paybacks of 7 to 10 years. If this is not possible then other projects will be identified to ensure the carbon savings are achieved, but not at excessive cost versus payback.

#### 5.1 Benefits / savings – quantified and un-quantified

|                               | 2011 | 2012     | 2013     | 2014       | 2015       |
|-------------------------------|------|----------|----------|------------|------------|
| Annual cost saving            | 93   | £115,221 | £948,358 | £1,360,457 | £1,360,857 |
| Annual CO <sub>2</sub> saving | 0.00 | 663.59   | 5246.83  | 7728.51    | 7730.69    |
| % of target achieved          | 0%   | 7%       | 59%      | 87%        | 87%        |

Figure 15: Annual cost and CO2 savings and progress towards target

Operational savings have not been calculated here, but many schemes such as the installation of LED lights with long life span and newer more efficient boilers, will bring with them significant savings in reduced revenue and maintenance costs across the facilities lifetime.

#### **Unquantified benefits:**

There are other benefits which have cannot be quantified in carbon or financial terms, which will bring benefit to the authority



- Improved knowledge and skills in project managent and delivery of the CMP. Ability to adapt and respond to government reporting demands with regards to carbon emissions.
- ❖ Better informed stakeholders in the issues surrounding Carbon management and energy efficeieny.
- Local economic benefit.
- Staff travel plan will encourage a healthier workforce.
- ❖ Having a stategy in place is more likely to attact external funding as it.
- shows our commitment this was a result of the previous CMP.

#### 5.2 Financial costs and sources of funding

| Annual Costs  | 2010/11  | 2011/12  | 2012/13    | 2013/14 | 2014/15    |
|---|----------|----------|------------|---------|------------|
| Total annual capital cost   | £224,213 | £541,322 | £3,893,000 | £10,000 | £3,992,120 |
| Total annual revenue cost   | 03       | £0       | 03         | 03      | 93         |
| Total costs   | £224,213 | £541,322 | £3,893,000 | £10,000 | £3,992,120 |
| Committed funding   |          |          |            |         |            |
| Committed annual capital  | £174,213 | £200,000 | 03         | £0      | 03         |
| Committed annual operational revenue - From Civic Building SALIX ring fenced fund * | £50,000  | £56,000  | £20,848    | £20,000 | £20,000    |
| Total funded  | £224,213 | £256,000 | £20,848    | £20,000 | £20,000    |
| Unallocated funding   |          |          |            |         |            |
| Unallocated annual capital  | 03       | £541,322 | £3,893,000 | £10,000 | £3,992,120 |
| Unallocated annual operational revenue  | £0       | 93       | 03         | £0      | 93         |
| Total unfunded  | 03       | £85,322  | £3,872,152 | £0      | £3,972,120 |

<sup>\*</sup> Salix funding allocated for Civic Buildings only. Amount available for years 3, 4 and 5 depend on level of repayments made to fund

Figure 16: Annual costs and sources of funding. Salix Funding has been highlighted in red



The table above summarises the allocated/committed funding available and the unallocated funding needed to finance the projects in the plan, versus the total needed each year.

The funding for 2010/11 came from committed capital funding and Salix funds. Currently the only committed annual revenue savings come from the reinvestment of savings made by existing Salix funded schemes. It is a requirement of the scheme that this money is returned to the fund and reinvested in further carbon saving initiatives, so this funding is secure for the foreseeable future. The additional funding for 2011/12 is specifically for the roll out of automated meters (project 12) and its source is secure. Additional funding after 2011/12 has not yet been confirmed yet the successes of the projects from year 1 are being built into a business case for further investment from central finances. In addition the Energy and Environmental Management Team are seeking investment from external companies to secure significant and long term investment in carbon saving initiatives across the council's portfolio.



# 6. Actions to Embed Carbon Management in Our Organisation

To ensure that carbon management is not just the responsibility of one or two officers, a series of actions and processes that are endorsed across the council have been developed. This section outlines the processes we have adopted at Sefton to ensure carbon management is part of a 'business integration' approach.

The process began with an Implementation workshop using the Carbon Management Embedding matrix, the group were asked to assess where they thought the authority was currently on a level of 1 to 5 (level 1 is low and level 5 is high) and where we hope to be by the end of the 5 year programme (Appendix A). The areas considered by the matrix are:

- Corporate strategy
- Programme Management
- Responsibility
- Data Management
- Communication and Training
- Finance and Investment
- Policy Alignment
- Engagement of Schools

Our aim is to achieve level 5 in all areas of the matrix over the next 5 years and believe that applying and expanding on the strategic themes and proposals within this plan will enable us to achieve this goal.

# 6.1 Corporate Strategy – embedding CO<sub>2</sub> saving across Sefton Council

Sefton Council has set itself a short term target of 25% reduction in carbon emissions by 2016. To achieve this we will ensure that a series of detailed actions are included in every department's annual service plan. This will feed through to the Corporate Plan (currently being reviewed) as well as influencing the Council's current transformation process.

Other strategy areas that we will seek to influence are;

- Sefton's Sustainable Community Strategy (as and when it is refreshed)
- Financial planning To introduce carbon budgets alongside financial budgets and introduce internal audit to the concept (linked to the CRC EES charges).
- Asset Management strategy Buildings are a key contributor to our carbon footprint and we will continue to utilise this strategy.



- Risk Management With the total cost of energy, water and fuel rising, together with a high level of uncertainty over the scale of the potential increase, Energy management has been listed (on the risk register) as a key corporate risk.
- Sefton Council's Travel plan To press for its adoption and successful implementation across the authority.

Our long term ambition is to have a joint climate change plan which would combine mitigation with adaptation and over time address other emissions which contribute to climate change. This plan would, as well as looking inwards, consider climate change in the wider community.

#### 6.2 Programme Management – bringing it all together effectively

The co-ordination of the CMP will be carried out by the Energy and Environmental Management Team. In addition to this team there are two key groups of officers within the Council, these are;

The Programme Management Board. This group comprises Heads of Service, Councillor for the Environment and representatives from the Energy & Environmental Management Team and is responsible for;

- Providing senior level endorsement and ownership
- Taking decisions and authorising the approach taken
- Integrate the CMP actions within the corporate monitoring system (SPRINT)
- Ensuing relevant activities are carried out by officers or their team(s)
- Reviewing progress
- Authorising financial investment
- Foster a culture of carbon saving

The Carbon Management Team. This group is made up of project owners and other lead officers. They are responsible for;

- Helping to identify projects
- Running and delivering projects
- Providing feedback on progress to Energy & Environmental Management Team
- Monitoring KPIs (as determined by Service plan and project outcomes)
- Assisting in corporate communications

### 6.3 Responsibility – being clear that saving CO<sub>2</sub> is everyone's job

Sefton's approach is to ensure that all departments take responsibility for reducing carbon emissions. Initially all departments will be asked to adopt the 25% target as



part of their service plan. In 2012 we will ask departments to include a more detailed series of actions and associated targets.

In terms of raising awareness generally amongst employees, Sefton has developed a communications plan which includes a range of activities to ensure staff are aware of why we need to act and how best to do that in their current role. We will also target key staff (with responsibility for carbon intensive operations) for additional support.

# 6.4 Data Management – measuring the difference, measuring the benefit

Sefton Council use an energy management system to record invoice data and site meter readings. All site/office mangers are encouraged to use the interactive web portal which links to this database. Users are reminded to add monthly meter readings which allow us to monitor energy consumption and alert users to any large changes in consumption. Once automatic meters have been rolled out this system will allow large amounts of data to be collated and monitored easily as well as enabling reports to be generated so sites can monitor their own performance.

Data management is a key requirement of any management system. Sefton's Energy and Environmental Management Team will collate all carbon data. In order to monitor progress project owners will, where practical, be required to submit quarterly/bi-annual updates on consumption and project progress.

Data will be utilised as part of the Climate change communications plan (CCCP), to raise awareness and encourage action as well as reporting progress to staff.

Data will also be provided every quarter to members of the Carbon Management Team, as a method for monitoring progress and maintaining dialogue with management teams.

Our ICT Partners Arvato are supportive of the CMP and are taking steps to provide integrated support.

We have identified a number of key Performance indicators. They include;

- Progress against our 25% target
- Inclusion of CMP in service plans
- NI and CRC progress
- Numbers of new projects

### 6.5 Communication and Training – ensuring everyone is aware

It is widely accepted that a good communications and awareness raising programme can help an organisation to reduce its emissions, as staff gain motivation and competence and take responsibility for carbon reduction.



Sefton have developed a Low Carbon communications plan which has identified a number of projects that will focus on providing relevant information and encouraging employees to act.

Some examples of projects we will deliver include; a dedicated intranet site, which will act as a hub for information to support staff; Online and other training for all staff to provide a basic level of knowledge; Poster campaigns and innovative activities e.g. using thermal imaging cameras. We will also be able to offer out reach support to individual buildings or departments in the form of site surveys and bespoke energy advice.

#### 6.6 Finance and Investment – the money to match the commitment

As section 5 has demonstrated there are significant gaps in financing for the remaining projects in the plan and also future projects. Through reporting on the achievements to date we will build a strong business case for further capital investment. Following the Salix invest to save model, there is also a strong case for devising an internal recycling fund for energy saving projects.

#### 6.7 Policy Alignment – saving CO<sub>2</sub> across our operations

Sefton Council have a range of policies which have the potential to include a carbon reduction commitment, this would strengthen our 25% target. These policies include;

- Corporate Plan
- Transformation Plan
- Sustainable Procurement Policy
- Sustainable Travel Plan
- Air Quality Management plan
- ICT Strategy (Arvato)
- Capita Contract & associated policies (potential to be influenced through ISO14001 procedures)
- Waste Management Strategy (Merseyside)

This CMP seeks to umbrella all these policies, in order that it is adopted as the cross cutting council policy on carbon reduction.



# 6.8 Engagement of Schools – working with Schools to reduce their carbon footprint

Sefton have a two pronged approach to engaging with schools. We have an award winning Eco-centre, which delivers high quality educational experiences to local schools. These are delivered away from schools at a dedicated eco-friendly building with dedicated classroom facilities. From April 2011, we are also providing targeted bespoke support in schools to develop an action plan and develop a whole school approach to reducing emissions.

The majority of schools in Sefton are Eco-schools and many have followed the sustainable schools framework. Sefton officers have developed an excellent relationship with schools and offer a number of supplementary services which will strengthen and reinforce our work on reducing carbon emissions. These include

- Bespoke site by site carbon and water audits
- Joint educational visits
- Supportive funding bids

Recognition of carbon reduction actives by individual schools is then followed up by the annual Eco-champions awards (acknowledging and rewarding environmental efforts), The Big Green envelope (Environmental information sent out 3 times per year to all schools), The Green Stars league table (where schools achieve stars/league position through reporting their environmental efforts) and attendance at Head/Deputy Teacher conferences. Reduction in energy use is also recognised by an improved DEC rating.



### 7. Programme Management of the CM Programme

In order for the CMP to maintain momentum, Sefton have developed a strong system of management to ensure the success of this plan. This includes, strong support from leaders, co-ordination of activities, clear roles and responsibilities and effective monitoring.

#### 7.1 The Programme Board – strategic ownership and oversight

This group comprises Heads of Service, Councillor for the Environment and representatives from the Energy & Environmental Management Team and is responsible for;

- Providing senior level endorsement and ownership
- Taking decisions and authorising the approach taken
- Integrate the CMP actions within the corporate monitoring system (SPRINT)
- Ensuing relevant activities are carried out by officers or their team(s)
- Reviewing progress
- Authorising financial investment
- Foster a culture of carbon saving

This high level strategic group will meet twice a year and will be chaired by the Cabinet Member for Environment. The Board will consider progress of projects towards meeting strategic targets and PIs, barriers and risks to that progress, opportunities and future development of the CMP.

The Board will provide a briefing report (a summary of the proceedings) to the Strategic Leadership team and where required (a key decision is needed) to elected members. in the form of a committee report.

### 7.2 The Carbon Management Team – delivering the projects

This group is made up of project owners and other lead officers. They are responsible for:

- Helping to identify projects
- Running and delivering projects
- Providing feedback on progress to Energy & Environmental Management Team
- Monitoring KPIs (as determined by Service plan and project outcomes)
- Assisting in corporate communications

This group will meet twice a year to discuss the progress of individual projects, their role in communications and any issues that need to be raised and addressed by the



Programme Board. The minutes from this group will be sent to the Programme Board for discussion and action where required.

#### 7.3 Succession planning for key roles

Key roles within the CMP include Chair of the Programme Board, key Project owners and members of the Energy and Environmental management Team.

The Chair of the Programme Board is Cabinet Member Environment. The current councillor has support from other councillors on environmental matters and would be replaced if he decided to step down.

Key project owners are usually part of larger teams so with an appropriate update and handover another officer would take on the role of 'project owner' if that member of staff left for any reason.

The Project Leader and Deputy Project Leader are members of the Energy and Environmental Management Team. If either of these officers were unable to continue with their role then other members of the team who are also closely involved in the CMP could take on their responsibilities. As with project owners a detailed handover would be given and the CMP board and team members would be advised accordingly.

#### 7.4 Ongoing stakeholder management

Departmental management Teams will receive a quarterly update on energy/water consumption as well as a reminder about which activities they need to progress. This will be produced and distributed by the EEM Team.

### 7.5 Annual progress review

To coincide with the Carbon Trust's annual review, an internal review on the progress made against the plan will be produced and made available to all CMP board/team members. Through the CMP board it will also be reported to SLT.

The review will cover:

- The cost benefits of the programme
- ❖ A breakdown of projects by department
- Progress towards our 25% target
- Other benefits of the plan, such as other polices produced and implemented as a result of it and our influence on the wider community

In addition both qualitative and quantitative actions which have been included in service plans will be monitored through Sprint Reviews.



## **Appendix A: Carbon Management Matrix – Embedding**

|                 | CORPORATE STRATEGY   | PROGRAMME<br>MANAGEMENT  | RESPONSIBILITY   | DATA MANAGEMENT   | COMMUNICATION & TRAINING   | FINANCE & INVESTMENT  | POLICY ALIGNMENT *  | ENGAGEMENT OF<br>SCHOOLS   |
|-----------------|--|--|--|---|--|---|---|--|
| Mature          | Top level target allocated<br>across organisation                                | Cabinet / SMT review<br>progress against targets on<br>quarterly basis                     | CM integrated in<br>responsibilities of senior<br>managers                             | <ul> <li>Regular collation of CO<sub>2</sub><br/>emissions for all sources</li> </ul>                           | All staff given formalised CO <sub>2</sub> :   | Finance committed for 2+yrs of Programme  | · CO <sub>2</sub> friendly operating<br>procedure in place                          | A 'whole school approach' including curriculum   |
| 5               | CO₂ reduction targets in<br>Directorate Business Plans                           | Regular diagnostic reports<br>provided to Directorates                                     | · CM part of all contracts / Ts & Cs   | · Data externally verified  | o induction and training<br>o communications   | · External funding being<br>routinely obtained  | Central team provide advice<br>and review, when requested                           | Mature programme of engagement in place  |
| 5 Years<br>Time | Action plans in place to<br>embed strategy. Progress<br>routinely reviewed       | Progress against target<br>published externally  | Central CO₂ reduction advice available     Green Champions leading local action groups | Monitoring & Targeting in<br>place for:     o buildings     o street lighting     o transport/travel            | Joint CM communications with key partners     Staff awareness tested through surveys | Ring-fenced fund for carbon<br>reduction initiatives  | Barriers to CO <sub>2</sub> reduction<br>routinely considered and<br>removed        | <ul> <li>CO₂ saving in schools<br/>having a wider community<br/>impact</li> </ul>        |
|                 | <ul> <li>CO₂ reduction commitment in<br/>Corporate Strategy</li> </ul>           | Sponsor reviews progress<br>and removes blockages<br>through regular Programme<br>Boards   | CM integrated in to<br>responsibilities of department<br>heads                         | <ul> <li>Annual collation of CO<sub>2</sub><br/>emissions for:<br/>o buildings<br/>o street lighting</li> </ul> | All staff given CO <sub>2</sub> reduction:     o induction     o communications      | Co-ordinated financing for<br>CO₂ reduction projects via<br>Programme Board                       | Comprehensive review of policies complete   | <ul> <li>A clear emphasis on energy /<br/>CO<sub>2</sub> reduction in schools</li> </ul> |
| 4               | · Top level targets set for CO <sub>2</sub> reduction                            | <ul> <li>Progress against targets<br/>routinely reported to Senior Mgt<br/>Team</li> </ul> | · Cabinet / SMT regularly updated  | o transport/travel  | o CM matters  - communicated to external community                                   | <ul> <li>Funding principles and<br/>processes agreed</li> </ul>                                   | · Lower level policies reviewed<br>locally  | · Council activities fully co-<br>ordinated  |
|                 | Climate Change Strategy<br>reviewed annually                                     |  | Staff engaged though Green<br>Champion network   | · Data internally reviewed  |  | Finances committed 1year<br>ahead     Some external financing                                     | Unpopular changes being considered  | Broad set of education<br>stakeholders engaged     Funding in place                      |
|                 | · Vision for CO₂ reduction clearly stated and published                          | Core team regularly review CM progress:     o actions                                      | · An individual provides full time focus for CO <sub>2</sub> reduction                 | Collation of CO <sub>2</sub> emissions for limited scope i.e. building only                                     | Environmental / energy<br>group(s) given ad hoc:<br>o training                       | · A view of the cost of CO <sub>2</sub><br>reduction is developing, but<br>finance remains ad-hoc | All high level and some mid<br>level policies reviewed,<br>irregularly              | · A person has responsibility<br>for Schools CO <sub>2</sub> reduction                   |
| 3<br>Current    | Climate Change Strategy<br>endorsed by Cabinet and<br>publicised with staff      | o profile & targets<br>o new opportunities   | Key individuals bave accountability for earbon reduction                               |   | communications   | Some centralised resource<br>allocated  | <ul> <li>Substantial changes made,<br/>showing CO₂ savings</li> </ul>               | · Schools CO <sub>2</sub> reduction projects co-ordinated                                |
| Current         | publicaded with stall  |  | Senior aponsor actively engage d   |   |  | · Finance representation on<br>CM Team  |   | · Ad-hoc funding   |
| 2               | Draft Climate Change Policy     Climate Change references<br>in other strategies | Ad hor reviews of CM actions prognes   | · O₂ reduction a part-time<br>responsibility of a few<br>department champions          | No CO₂ emissions data<br>compiled     Energy data compiled on a<br>regular basis                                | Regular awareness campaigns     Staff given CM information on ad-hoc basis           | <ul> <li>Ad hoc financing for CO₂<br/>reduction projects</li> </ul>                               | Partial review of key, high<br>level policies     Some financial quick wins<br>made | Ad-noc schools projects to<br>specifically reduce energy /<br>CO <sub>2</sub>            |
|                 | · No policy  | No CM monitoring   | <ul> <li>No recognised CO₂ reduction</li> </ul>  | No CO₂ emissions data   | No communication or training   | No specific funding for CO <sub>2</sub>   | No alignment of policies for  | No CO <sub>2</sub> / energy reduction  |
| 1               | No Climate Change reference  |  | responsibility   | compiled  Estimated billing   |  | reduction projects  | CO₂ reduction   | policy for schools   |
| Start           | Telefolio  |  |  |   |  |   |   |  |

## **Appendix B: Definition of Projects**

| Project:             | Bootle Town Hall Draft Proofing  |
|----------------------|--|
| Reference:           | CMP 1  |
| Owner                | Stephanie Hopkin   |
| (person)             |  |
| Department           | Civic Buildings  |
| Description          | To identify and deploy draft proofing resources at Bootle Town Hall  |
| Benefits             | Financial savings: £1,712 pa   |
|                      | Payback period: 9 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction:10.5 tonnes of CO2 pa</li> </ul>   |
|                      | • % of target: 0.12%   |
| Funding              | Project cost: £15,414  |
|                      | Operational costs: £0,00   |
|                      | Source of funding: Salix   |
|                      | Project completed  |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds   |
| Ensuring<br>Success  | <ul> <li>The deployment and maintenance of the draft proofing<br/>equipment (DPE) will be key to the success of these<br/>savings.</li> </ul>                |
|                      | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the DPE or the DPE being<br/>allowed to fall into disrepair</li> </ul> |
| Measuring<br>Success | The consumption levels for this location will be<br>monitored to provide evidence of progression. Monitoring<br>of consumption will take place annually      |
| Timing               | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>                  |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.  |

| Project:             | Bootle Town Hall Roof Insulation   |
|----------------------|--|
| Reference:           | CMP 2  |
| Owner                | Stephanie Hopkin   |
| (person)             |  |
| Department           | Civic Buildings  |
| Description          | To identify and deploy roof insulation resources at Bootle Town Hall   |
| Benefits             | Financial savings: £ 2.012 pa  |
|                      | Payback period: 4.5 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 12.3 tonnes of CO2 pa</li> </ul>  |
|                      | • % of target: 1.4%  |
| Funding              | Project cost: £9,136   |
|                      | Operational costs: £0  |
|                      | Source of funding: Salix   |
|                      | Project Completed  |
| Resources            | Savings were identified by the Energy & Environmental Team and works were carried out by Capita Symonds  |
| Ensuring<br>Success  | The deployment and maintenance of the roof insulation equipment (RIE) will be key to the success of these savings.   |
|                      | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the RIE or the RIE being<br/>allowed to fall into disrepair</li> </ul> |
| Measuring<br>Success | The consumption levels for this location will be<br>monitored to provide evidence of progression. Monitoring<br>of consumption will take place annually      |
| Timing               | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>                  |
| Notes                | Consumption levels will be compared for corresponding  |
|                      | levels of consumption annually.  |

| Project:             | Southport Town Hall Boiler House Insulation   |
|----------------------|---|
| Reference:           | CMP 3   |
| Owner                | Stephanie Hopkin  |
| (person)             |   |
| Department           | Civic Buildings   |
| Description          | To identify and deploy boiler house insulation resources at Southport Town Hall   |
| Benefits             | Financial savings: £400 pa  |
|                      | Payback period: 5.6 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 2.5 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                      | • % of target: 0.03%  |
| Funding              | Project cost: £2,250  |
|                      | Operational costs: £0   |
|                      | Source of funding: Salix  |
|                      | Project Completed   |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symons   |
| Ensuring<br>Success  | The deployment and maintenance of the Boiler House<br>Insulation equipment (BHIE) will be key to the success of<br>these savings.                                 |
|                      | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the BHIE or the BHIE being<br/>allowed to fall into disrepair</li> </ul>    |
| Measuring<br>Success | The consumption levels for this location will be monitored to provide evidence of progression towards target. Monitoring of consumption will take place annually. |
| Timing               | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>                       |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.   |

| Project:<br>Reference: | Insulation at Children's Homes & Hostels CMP 4  |
|------------------------|---|
| Owner                  | Stephanie Hopkin  |
| (person)               |   |
| Department             | Civic Buildings   |
| Description            | To identify and deploy cavity wall and lost insulation at various children's homes & hostels  |
| Benefits               | <ul> <li>Financial savings: £6,002 pa</li> <li>Payback period: 1.2 years</li> <li>CO<sub>2</sub> Emissions reduction:36.8 tonnes of CO2 pa</li> <li>% of target: 0.41%</li> </ul>   |
| Funding                | <ul> <li>Project cost: £7,208</li> <li>Operational costs: £0,00</li> <li>Source of funding: Salix</li> <li>Project completed</li> </ul>   |
| Resources              | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds  |
| Ensuring<br>Success    | <ul> <li>The deployment and maintenance of the insulation equipment will be key to the success of these savings.</li> <li>Risks to the success of this project include the unauthorised removal of the insulation equipment or the insulation equipment being allowed to fall into disrepair</li> </ul> |
| Measuring<br>Success   | The consumption levels for this location will be monitored to provide evidence of progression. Monitoring of consumption will take place annually   |
| Timing                 | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>   |
| Notes                  | Consumption levels will be compared for corresponding levels of consumption annually.   |

| Project:<br>Reference: | Crosby Town Hall Cavity Wall Insulation CMP 5  |
|------------------------|--|
| Owner                  | Christine Hall   |
| (person)               | Offisine Hall  |
| Department             | Head of Library & Information Services (Leisure)   |
| Description            | To identify and deploy cavity wall insulation resources at   |
| •                      | Crosby Civic Hall / Library  |
| Benefits               | Financial savings: £11,093 pa  |
|                        | Payback period: 0.62 years   |
|                        | <ul> <li>CO<sub>2</sub> Emissions reduction: 68 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                        | • % of target: 0.76%   |
| Funding                | Project cost: £6,857   |
|                        | Operational costs: £0  |
|                        | Source of funding: Capital   |
|                        | Project Completed Spring 2011  |
| Resources              | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds   |
| Ensuring<br>Success    | The deployment and maintenance of the Cavity Wall<br>Insulation equipment (CWIE) will be key to the success<br>of these savings.                               |
|                        | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the CWIE or the CWIE being<br/>allowed to fall into disrepair</li> </ul> |
| Measuring<br>Success   | The consumption levels for this location will be<br>monitored to provide evidence of progression. Monitoring<br>of consumption will take place annually        |
| Timing                 | <ul> <li>Equipment was deployed spring 2011. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2012.</li> </ul>                    |
| Notes                  | Consumption levels will be compared for corresponding levels of consumption annually.  |

| Project:    | Variable Speed Drive (VSD) Dunes Splash World   |
|-------------|---|
| Reference:  | CMP 6   |
| Owner       | Scott Stevens   |
| (person)    |   |
| Department  | Principle Operations Manager Leisure & Tourism  |
| Description | To install Variable Speed Drives onto the pumping   |
| Benefits    | mechanisms at this location.  |
| Deficitio   | Financial savings: £14,956 pa   |
|             | Payback period: 1.38 years  |
|             | <ul> <li>CO<sub>2</sub> Emissions reduction: 254.16 tonnes of CO<sub>2</sub> pa</li> </ul>                            |
|             | • % of target: 0.91%  |
| Funding     | Project cost: £20,685   |
|             | Operational costs: £0,00  |
|             | Source of funding: Capital  |
|             | Project completed Spring 2011   |
| Resources   |   |
| 11000011000 | <ul> <li>Savings were identified by a Carbon Trust Survey and<br/>works were carried out by Capita Symonds</li> </ul> |
| Ensuring    | The deployment and maintenance of the VSD will be   |
| Success     | key to the success of this project. <b>Staff must be fully</b>  |
|             | trained to operate this equipment   |
|             | Risks to the success of this project include the  |
|             | unauthorised removal of the VSD or the VSD being  |
|             | allowed to fall into disrepair. Operational staff must be   |
|             | fully trained in the use of this equipment.   |
| Measuring   | The consumption levels for this location will be  |
| Success     | monitored to provide evidence of progression. Monitoring  |
|             | of consumption will take place monthly and reported   |
|             | annually.   |
| Timing      | <ul> <li>Equipment was deployed Spring 2011. It is expected</li> </ul>  |
|             | that reductions will become evident in Summer 2011.   |
|             |   |
| Notes       | Consumption levels will be compared for corresponding   |
|             | levels of consumption annually.   |

| Project:<br>Reference: | Vending Machine Timers Various Sites CMP 7   |
|------------------------|--|
| Owner                  |  |
| (person)               | Stephanie Hopkin   |
| Department             | Civic Buildings  |
| Description            | To install 7 day timing mechanism onto the vending machines in order to insure switch off of vending machines between 19:00 – 07:00 and at weekends.   |
| Benefits               | <ul> <li>Financial savings: £2,939 pa</li> <li>Payback period: 0.31 years</li> <li>CO<sub>2</sub> Emissions reduction: 16 tonnes of CO2 pa</li> <li>% of target: 0.18%</li> </ul>                                      |
| Funding                | <ul> <li>Project cost: £912</li> <li>Operational costs: £0</li> <li>Source of funding: Salix</li> <li>Project Completed Winter 2010 / 11</li> </ul>  |
| Resources              | Savings were identified by the Energy & Environmental Team and works were carried out by Capita Symonds  |
| Ensuring<br>Success    | <ul> <li>The deployment and maintenance of the timing devices is essential to the success of this project.</li> <li>Risks to the success of this project include lack of maintenance to the timing devices.</li> </ul> |
| Measuring<br>Success   | Staff from the energy & environmental management<br>team will carry out annual audits to insure vending<br>machines – timing devices are working   |
| Timing                 | Equipment was deployed winter 2010. Audits will be carried out from June 2011.   |
| Notes                  | Vending machine audits will be made available.   |

| Project:             | Bootle Multi Story Car Park LED Lighting System   |
|----------------------|---|
| Reference:           | CMP 8   |
| Owner                | Dave Marrin   |
| (person)             |   |
| Department           | Transport Services Manager, Dept Built Environment  |
| Description          | To replace the 6th floor of the existing lighting system at the car park Bootle New Strand with LED as a trial and then roll out the scheme to the other 5 levels                         |
| Benefits             | Financial savings: £18,993 pa   |
|                      | Payback period: 3.16 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction:103.4 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 1.16%  |
| Funding              | Project cost: £60,000   |
|                      | <ul> <li>Operational costs: Unable to quantify the reduced<br/>operational and maintenance costs But expected to be<br/>highly reduced as this is 'fit and forget' technology.</li> </ul> |
|                      | Source of funding: Salix/Capital  |
|                      | Project completed   |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds  |
| Ensuring<br>Success  | The deployment and maintenance of the LED system is critical to the success of this project.  |
|                      | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the LED lights or lack of<br/>maintenance</li> </ul>  |
| Measuring<br>Success | The consumption levels for this location will be<br>monitored to provide evidence of progression. Monitoring<br>of consumption will take place annually                                   |
| Timing               | <ul> <li>Equipment was deployed Spring 2011. It is expected<br/>that reductions will become evident in Spring/Summer<br/>2011.</li> </ul>   |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.   |

| Project:             | High Reflective Street Bollards Replacement   |
|----------------------|---|
| Reference:           | CMP 9   |
| Owner                | Paul Scott  |
| (person)             |   |
| Department           | Senior Project Manager, Client Team   |
| Description          | To replace 255 illuminated street bollards with Highly Reflective Surface Bollards (HRSB), removing the need for illumination.  |
| Benefits             | <ul> <li>Financial savings: £4,918 pa</li> </ul>  |
|                      | Payback period: 11.07 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 26.8 tonnes of CO2 pa</li> </ul>   |
|                      | • % of target: 0.3%   |
| Funding              | Project cost: £54,422   |
|                      | Operational costs: £0   |
|                      | Source of funding: Capital (part)   |
|                      | Project part completed Winter 2010 / 11   |
| Resources            | Savings were identified by the Energy & Environmental Team and works were carried out by Capita Symonds                         |
| Ensuring<br>Success  | The deployment of the HRSB will remove the need for electrical illumination. Once deployed the HRSB will reflect car headlamps. |
|                      | <ul> <li>Risks to the success of this project include lack of<br/>maintenance and cleaning of the HRSB.</li> </ul>              |
| Measuring<br>Success | The reduction in energy use from this project will be included in the measuring of street lighting                              |
| Timing               | Equipment was deployed winter 2010.   |
| Notes                |   |

| Project:             | Dunes Leisure Centre Motorised Pool Cover   |
|----------------------|---|
| Reference:           | CMP 10  |
| Owner                | Scott Stevens   |
| (person)             |   |
| Department           | Principle Operations Manager Leisure & Tourism  |
| Description          | To install motorised pool covers to the main and learner  |
| Benefits             | pools to retain heat in the swimming pool when not in use.  |
| Benefits             | Financial savings: £9,972 pa  |
|                      | Payback period: 2.95 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 61.1 tonnes of CO2 pa</li> </ul>   |
|                      | • % of target: 0.69%  |
| Funding              | Project cost: £29,393   |
|                      | <ul> <li>Operational costs: There some operational costs included in the energy bill</li> </ul>   |
|                      | Source of funding: Capital  |
|                      | Project completed   |
| Resources            | <ul> <li>Savings were identified by a Carbon Trust survey and<br/>works were carried out by Capita Symonds</li> </ul>   |
| Ensuring<br>Success  | The pool cover must be deployed when the pool is not in use to insure savings are achieved.   |
|                      | <ul> <li>Risks to the success of this project include the non-<br/>deployment of this equipment</li> </ul>  |
| Measuring<br>Success | The consumption levels for this location will be monitored to provide evidence of progression. Monitoring of consumption will take place monthly and reported annually. |
| Timing               | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>                             |
| Notes                | Consumption levels will be compared for corresponding   |
|                      | levels of consumption annually.   |

| Duciant              | Chroat Lawre Variable Light Lavele  |
|----------------------|---|
| Project:             | Street Lamps Variable Light Levels  |
| Reference:           | CMP 11  |
| Owner                | Paul Scott  |
| (person)             |   |
| Department           | Senior Project Manager, Client Team   |
| Description          | To reduce the amount energy consumed by 6000 street   |
|                      | lamps via the introduction of variable light levels   |
| Benefits             | <ul> <li>Financial savings: £39,792 pa</li> </ul>   |
|                      | Payback period: 9.88 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 216.5 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                      | • % of target: 2.43 %   |
| Funding              | Project cost: £393,000  |
|                      | <ul> <li>Operational costs: Unable to quantify the reduced operational and maintenance costs.</li> </ul>  |
|                      | Source of funding: Capital (part)   |
|                      | <ul> <li>Project awaiting approval</li> </ul>   |
| _                    | Troject awaiting approval   |
| Resources            | <ul> <li>Savings have been identified by the Energy &amp;<br/>Environmental Team and works will be carried out by<br/>Capita Symonds</li> </ul> |
| Ensuring<br>Success  | <ul> <li>The deployment of this equipment will be closely<br/>monitored due to the potential to increase crimes rates<br/>etc.</li> </ul>       |
|                      | <ul> <li>Risks to the success of this project could include public<br/>or political perception of this project.</li> </ul>                      |
| Measuring<br>Success | The reduction in energy use from this project will be included in the measuring of street lighting  |
| Timing               | Awaiting approval.  |
| Notes                |   |

| Drojecti               | Automatic Meters   |
|------------------------|--|
| Project:<br>Reference: | CMP 12   |
| Owner                  | Ian Weller   |
| (person)               | ian wener  |
| Department             | Energy & Environmental Management Team Dept of the Built Environment   |
| Description            | To install Automatic Meter Reading (AMR) equipment at buildings throughout Sefton. The AMR equipment will provide Half Hourly readings automatically   |
| Benefits               | <ul> <li>Financial savings: £415,954 pa</li> </ul>   |
|                        | Payback period: 0.63 years   |
|                        | <ul> <li>CO<sub>2</sub> Emissions reduction:2,288.3 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                        | • % of target: 25.63%  |
| Funding                | , and the second |
| i ananig               | Project cost: £260,000   |
|                        | <ul> <li>Operational costs: There some operational costs included in the general energy bill</li> </ul>  |
|                        | <ul> <li>Source of funding: Capital, Finance, Funding</li> </ul>   |
|                        | Project ongoing  |
| Resources              | <ul> <li>Savings have been identified by the Energy &amp;<br/>Environmental Team and works will be carried out by<br/>Capita Symonds</li> </ul>  |
| Ensuring<br>Success    | The deployment of the AMR equipment will be clearly time-tabled and will be monitored. Once deployed other projects will be developed to further reduce energy consumption   |
|                        | <ul> <li>Risks to the success of this project include the<br/>malfunction of AMR, computer corruption</li> </ul>   |
| Measuring<br>Success   | The installation of the AMR will be essential to Sefton<br>Council's CMP. Monitoring of consumption will take place<br>monthly and reported annually.  |
| Timing                 | The timetable for the completion of this project is April 2012   |
| Notes                  | Consumption levels will be compared for corresponding levels of consumption annually.  |

| Project:             | Illuminated Street Signs to LED   |
|----------------------|---|
| Reference:           | CMP 13  |
| Owner                | Paul Scott  |
| (person)             |   |
| Department           | Senior Project Manager Client Team  |
| Description          | There are 2686 illuminated street signs throughout Sefton. This project will replace the existing lighting with LED equivalent. |
| Benefits             | <ul> <li>Financial savings: £18,267 pa</li> </ul>   |
|                      | Payback period: 11.76 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 99.4 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 1.11%  |
| Funding              | Project cost: £214,900  |
|                      | <ul> <li>Operational costs: Unable to quantify the reduced operational and maintenance costs.</li> </ul>                        |
|                      | Source of funding: Capital (part)   |
|                      | Project is ongoing  |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds                      |
| Ensuring<br>Success  | <ul> <li>The time-table for the deployment of this equipment<br/>will be critical to the success of this project.</li> </ul>    |
|                      | <ul> <li>Risks to the success of this project the interruption of<br/>deployment.</li> </ul>                                    |
| Measuring<br>Success | The reduction in energy use from this project will be included in the measuring of street lighting                              |
| Timing               | Project is ongoing with 100 units deployed May 2011   |
| Notes                |   |

| Project:             | Main Road Street Lights Replaced with LED  |
|----------------------|--|
| Reference:           | CMP 14   |
| Owner                | Paul Scott   |
| (person)             |  |
| Department           | Senior Project Manager Client Team   |
| Description          | The replacement of the main road street lighting to LED  |
| Benefits             | <ul> <li>Financial savings: £400 pa</li> </ul>   |
|                      | Payback period: 25 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 2.2 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 0.02%   |
| Funding              | Project cost: £10,000  |
|                      | <ul> <li>Operational costs: Unable to quantify the reduced operational and maintenance costs.</li> </ul>   |
|                      | Source of funding: Not Funded  |
|                      | <ul> <li>Project Analysis taking place on the costs / benefits of<br/>this project</li> </ul>  |
| Resources            | Savings were identified by the Energy & Environmental<br>Team  |
| Ensuring             | Project confirmation needed  |
| Success              | <ul> <li>That cost of LED technology is not prohibitive to<br/>potential energy savings</li> </ul>   |
| Measuring<br>Success | The reduction in energy use from this project will be included in the measuring of street lighting   |
| Timing               | • TBC  |
| Notes                | The costs and scope for this project may be increased if further funding is secured and if the unit price per fitting is reduced making the payback period 7 years or below. |

| Project:             | PC Power Down Overnight & Weekends   |
|----------------------|--|
| Reference:           | CMP 15   |
| Owner                | Linda Price  |
| (person)             |  |
| Department           | Finance & Information Services   |
| Description          | To introduce computer software to power down all non essential computers over night & at weekends  |
| Benefits             | Financial savings: £1,657 pa   |
|                      | Payback period: Immediate savings no payback   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 9 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 0.1%  |
| Funding              | , and the second |
| Funding              | Project cost: £0   |
|                      | <ul> <li>Operational costs: There are no costs in this project</li> </ul>  |
|                      | Source of funding: N/A   |
|                      | Project Completed  |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Arvato   |
| Ensuring<br>Success  | Quarterly numbers of computers being left on will be requested from Arvato   |
|                      | <ul> <li>Risks to the success of this project include the<br/>malfunction of software, computer corruption.</li> </ul>   |
| Measuring<br>Success | The monitoring of the amounts of computers being powered down.   |
| Timing               | Project completed May 2011   |
| Notes                |  |

| Project:             | Variable Speed Drive (VSD) Bootle Leisure Centre  |
|----------------------|---|
| Reference:           | CMP 17  |
| Owner                | Nicola Macaulay   |
| (person) Department  | Principle Operations Manager Leigure & Tourism  |
| Description          | Principle Operations Manager Leisure & Tourism  To install Variable Speed Drives to the pumping mechanisms  |
| Description          | at this location.   |
| Benefits             | Financial savings: 20,516 pa  |
|                      | Payback period: 1.2 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction:111.6 tonnes of CO2 pa</li> </ul>   |
|                      | • % of target: 1.25%  |
| Funding              | Project cost: £24,640   |
|                      | Operational costs: £0,00  |
|                      | Source of funding: Capital  |
|                      | Project completed Spring 2011   |
| Resources            | Savings were identified by a Carbon Trust Survey and works were carried out by Capita Symonds   |
| Ensuring<br>Success  | The deployment and maintenance of the VSD will be<br>key to the success of this project. Staff must be fully<br>trained to operate this equipment   |
|                      | <ul> <li>Risks to the success of this project include the<br/>unauthorised removal of the VSD or the VSD being<br/>allowed to fall into disrepair. Operational staff must be<br/>fully trained in the use of this equipment.</li> </ul> |
| Measuring<br>Success | The consumption levels for this location will be monitored to provide evidence of progression. Monitoring of consumption will take place monthly and reported annually.   |
| Timing               | <ul> <li>Equipment was deployed Spring 2011. It is expected<br/>that reductions will become evident in Spring/Summer<br/>2011/12.</li> </ul>  |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.   |

| Project:             | Bootle Leisure Centre Motorised Pool Cover  |
|----------------------|---|
| Reference:           | CMP 18  |
| Owner                | Nicola Macaulay   |
| (person)             |   |
| Department           | Principle Operations Manager Leisure & Tourism  |
| Description          | To install a motorised pool cover to the main pool to retain heat in the swimming pool when not in use.   |
| Benefits             | Financial savings: £10,909 pa   |
|                      | Payback period: 1.6 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction:66.9 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                      | • % of target: 0.75%  |
| Funding              | Project cost: £17,429   |
|                      | <ul> <li>Operational costs: There some operational costs included in the energy bill</li> </ul>   |
|                      | Source of funding: Capital  |
|                      | Project completed   |
| Resources            | Savings were identified by a Carbon Trust Survey and works were carried out by Capita Symonds   |
| Ensuring<br>Success  | The pool cover must be deployed when the pool is not in use to insure savings   |
|                      | <ul> <li>Risks to the success of this project include the non-<br/>deployment of this equipment</li> </ul>  |
| Measuring<br>Success | The consumption levels for this location will be monitored to provide evidence of progression. Monitoring of consumption will take place monthly and reported annually. |
| Timing               | <ul> <li>Equipment was deployed winter 2010. It is expected<br/>that reductions will become evident in Winter / Spring<br/>2011.</li> </ul>                             |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.   |

| Project:             | Meadows Leisure Centre Motorised Pool Cover  |
|----------------------|--|
| Reference:           | CMP 19   |
| Owner (person)       | Scott Stevens  |
| Department           | Principle Operations Manager Leisure & Tourism   |
| Description          | To install a motorised pool cover to retain heat in the swimming pool when not in use.   |
| Benefits             | <ul> <li>Financial savings: £10,890 pa</li> <li>Payback period: 1.56 years</li> <li>CO<sub>2</sub> Emissions reduction:66.8 tonnes of CO2 pa</li> <li>% of target: 0.75%</li> </ul>                  |
| Funding              | <ul> <li>Project cost: £17,000</li> <li>Operational costs: There some operational costs included in the energy bill</li> <li>Source of funding: Unknown</li> <li>Project awaiting funding</li> </ul> |
| Resources            | Savings have been identified by the Energy &     Environmental Team and works will be carried out by     Capita Symonds  |
| Ensuring<br>Success  | <ul> <li>The pool cover must be deployed when the pool is not in use to ensure savings</li> <li>Risks to the success of this project include the non-deployment of this equipment</li> </ul>         |
| Measuring<br>Success | The consumption levels for this location will be monitored to provide evidence of progression. Monitoring of consumption will take place monthly and reported annually.                              |
| Timing               | • Expected 2011/12 if funding can be secured.  |
| Notes                | Consumption levels will be compared for corresponding levels of consumption annually.  |

| Project:<br>Reference: | Sefton Council Travel Plan – Including Reducing<br>Business miles, Tele Conferencing & Pool Car Scheme<br>CMP 20, 24, 28   |
|------------------------|--|
| Owner (person)         | Lee Davis  |
| Department             | Strategic Transportation Planning Unit   |
| Description            | This project is aimed at reducing the need to travel and ensuring that if travel is necessary that a variety of options are fully available to all staff. Interventions include: |
|                        | Explore ICT alternatives   |
|                        | Tele conferencing<br>Skype   |
|                        | Promoting Carshare   |
|                        | Marketing package  |
|                        | Promoting public transport   |
|                        | Establish Public Transport & Train / Cycle Policy<br>Interest free loan for season ticket<br>Information provision – travelhub   |
|                        | Promoting cycling and walking  |
|                        | Establish Cycling for Work Policy Salary Sacrifice Bike Purchase Scheme Pool Bike Policy Cycle Training  |
|                        | Promoting walking  |
|                        | Establish Walking for Work Policy  |
|                        | Journey planning   |
|                        | Building to building Bespoke journeys  |
| Benefits               | Financial savings: Unknown   |
|                        | Payback period: Unknown  |
|                        | •  |
|                        | <ul> <li>CO<sub>2</sub> Emissions reduction: Unknown</li> </ul>  |
|                        | % of target: Unknown   |
| Funding                | Project cost: Unknown  |
|                        | Operational costs: There some operational costs included in the general energy bill  |
|                        | <ul> <li>Source of funding: Cycle Salary Scheme – 1 day per<br/>week, funded via NI savings</li> </ul>   |
|                        | Project ongoing  |
| Resources              | <ul> <li>Cycle Salary Scheme – 1 day per week, funded via NI savings</li> </ul>  |

|                      | •  |
|----------------------|--|
| Ensuring<br>Success  | The elements included in this project will be incorporated into Sefton Councils Travel Plan and will form part of future internal reporting.   |
|                      | <ul> <li>Sefton Council have an excellent track record of<br/>delivering sustainable transport initiatives.</li> </ul>   |
| Measuring<br>Success | <ul> <li>Reduction in miles and carbon claimed via mileage</li> <li>Carbon saved by car share</li> <li>Increase in easy tickets</li> <li>Increase in uptake of salary sacrifice</li> <li>Reductions will be reported annually</li> </ul> |
| Timing               | <ul><li>Start date April 2012</li><li>Completion date: 2014</li></ul>  |
| Notes                |  |

| Project:             | Communications Campaign   |
|----------------------|---|
| Reference:           | CMP 21  |
| Owner                | Ian Weller/Stephanie Jukes  |
| (person)             | ·   |
| Department           | Energy & Environmental Management Team Dept of the Built  |
|                      | Environment   |
| Description          | To develop a communications campaign promoting the CMP and the associated projects to reduce carbon   |
| Benefits             | Financial savings: £415,954 pa  |
|                      | Payback period: 0.01 years  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 2288.3 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 25.63%   |
| Funding              | Project cost: £5,000  |
|                      | Source of funding: Energy & environmental   |
|                      | Management Team Budget  |
|                      | <ul> <li>Project being developed and on going.</li> </ul>   |
| Resources            | <ul> <li>Savings have been identified by the Energy &amp;<br/>Environmental Team</li> </ul>   |
| Ensuring             |   |
| Success              | <ul> <li>The communications campaign will be developed<br/>using a variety of media and equipment and will available<br/>to all officers and schools</li> </ul>         |
|                      | <ul> <li>Risks to the success of this project include lack of<br/>resources, failure to identify and engage audience,<br/>coordinated release of materials.</li> </ul>  |
| Measuring<br>Success | <ul> <li>Recognition of the campaign brand, changes in staff<br/>behaviour and resulting reduction in energy consumption<br/>will be the measure of success.</li> </ul> |
| Timing               | Campaign is under development 2011/12 and will be project managed and reviewed  |
| Notes                |   |

| Project:             | Refrigeration Rationalisation  |
|----------------------|--|
| Reference:           | CMP 22   |
| Owner                | Stephanie Hopkin   |
| (person)             |  |
| Department           | Civic Building   |
| Description          | To review the amounts of refrigerators in use across SMBC canteens and their contents with recommendations for removal / disposal                  |
| Benefits             | <ul> <li>Financial savings: £245 pa</li> </ul>   |
|                      | Payback period: Immediate savings  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction:1.3 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                      | • % of target: 0.01%   |
| Funding              | Project cost: £0   |
|                      | Operational costs: Potential for removal costs   |
|                      | <ul> <li>Source of funding: N/A</li> </ul>   |
|                      | Project completed  |
| Resources            | <ul> <li>Savings were identified by the Energy &amp; Environmental<br/>Team and works were carried out by the Civic Buildings<br/>Team.</li> </ul> |
| Ensuring             | Insure that refrigerators remain switched off  |
| Success              | <ul> <li>Risks to the success of this project include staff turning<br/>refrigerators back on</li> </ul>   |
| Measuring<br>Success | Overall energy consumption will fall as a result of the project  |
| Timing               | Project completed winter 2010.   |
| Notes                |  |

| Project:             | Fleet Driver Training   |
|----------------------|---|
| Reference:           | CMP 23  |
| Owner                | Vin Donnelly  |
| (person)             |   |
| Department           | Street Scene Services   |
| Description          | To introduce driver training to reduce fuel consumption, wear and tear of vehicles.                           |
| Benefits             | Financial savings: Un known   |
|                      | Payback period: Un known  |
|                      | CO <sub>2</sub> Emissions reduction: Un known   |
|                      | % of target: Un known   |
| Francisco            | % of target. Off known  |
| Funding              | Project cost: Unknown   |
|                      | Source of funding: Unknown  |
|                      | Project ongoing   |
| Resources            | Savings were identified by Street Scene Services and training provided by an external company                 |
| Ensuring             | That new recruits also have the training  |
| Success              | That fuel consumption is monitored of those who have received the training                                    |
| Measuring<br>Success | Monitoring fuel consumption and total mileage of routes   |
|                      | <ul> <li>Consumption levels will be compared for<br/>corresponding levels of consumption annually.</li> </ul> |
| Timing               | Driver Training course was carried out Winter 2010/11   |
| Notes                |   |

| Project:             | Fleet Zoning  |
|----------------------|---|
| Reference:           | CMP 25  |
| Owner                | Gary Berwick  |
| (person)             | ·   |
| Department           | Street Scene Services   |
| Description          | Refuse collection zones have been redefined in order to maximise efficiency of the route making fuel and resource savings. Stage two of the project will include re-procurement of low emission refuse vehicles |
| Benefits             | Financial savings: Un quantified  |
|                      | Payback period: Un quantified   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 12% savings in fuel<br/>consumption identified in stage one of project. This is<br/>expected to further increase in stage two.</li> </ul>                          |
|                      | % of target: Un quantified  |
| Funding              | Project cost:   |
|                      | Operational costs:  |
|                      | Source of funding:  |
|                      | Project ongoing   |
| Resources            | This is part of the transformation and efficiency savings for Street Scene Services   |
| Ensuring<br>Success  | That stage two of the project to successfully procure low emission vehicles is adequately funded.   |
|                      | <ul> <li>That driver training is provided to all drivers to ensure<br/>maximum fuel savings.</li> </ul>   |
| Measuring<br>Success | <ul> <li>Monitoring fuel consumption and total mileage of<br/>routes. Cleansing services manager has already reported<br/>a 12% reduction in fuel use since zoning began.</li> </ul>                            |
| Timing               | Zoning of collections commenced 2011/12   |
|                      | Re -procurement of vehicles expected June 2012  |
| Notes                | Consumption levels will be monitored for corresponding  |
|                      | levels of consumption annually.   |

| Project:    | School Boiler Replacement & Double Glazing Scheme   |
|-------------|---|
| Reference:  | CMP 26  |
| Owner       | Ivan Guy  |
| (person)    |   |
| Department  | Children Schools & Families   |
| Description | Schools have been assessed on their need for structural/technical repair using Capita Symonds Technical Forge database – this includes energy saving aspects such as replacement gas condensing boilers, lighting upgrades & double glazing. Assessing feasibility/options for biomass boilers. |
| Benefits    | <ul> <li>Financial savings: £ 301,620 pa</li> </ul>   |
|             | Payback period: 8.29 years  |
|             | <ul> <li>CO<sub>2</sub> Emissions reduction: 1859.5 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|             | • % of target: 20.72 %  |
| Funding     | Project cost: £2,500,000  |
| J           | Operational costs: Unknown  |
|             | ·   |
|             | Source of funding: Unknown  |
|             | <ul> <li>Project scope costs and savings have been estimated<br/>based on expected savings for technology types.</li> </ul>   |
| Resources   | Project scope identified by Capita Symonds and<br>Energy and Environmental Management Team  |
| Ensuring    | Securing funding for staged roll out of project.  |
| Success     | Where possible installing Biomass boilers to capitalise   |
|             | on maximum carbon savings and the Renewable Heat  |
|             | Incentive   |
| Measuring   | The consumption at sites will be monitored to provide   |
| Success     | evidence of progression towards target. Monitoring of   |
|             | consumption will take place annually.   |
| Timing      | To be reviewed as part of the CMP   |
| Notes       |   |

| Project:<br>Reference: | Corporate Boiler Replacement & Double Glazing Scheme CMP 27   |
|------------------------|---|
| Owner (person)         | Ian Weller  |
| Department             | Energy and Environmental Management Team  |
| Description            | Corporate buildings have been assessed on their need for structural/technical repair using Capita Symonds Technical Forge database – this includes energy saving aspects such as replacement gas condensing boilers, lighting upgrades & double glazing. Assessing feasibility/options for biomass boilers. |
| Benefits               | Financial savings: £ 47,503 pa  |
|                        | Payback period: 21.05 years   |
|                        | <ul> <li>CO<sub>2</sub> Emissions reduction: 289.4 tonnes of CO<sub>2</sub> pa</li> </ul>   |
|                        | • % of target: 3.24 %   |
| Funding                | Project cost: £1,000,000  |
|                        | Operational costs: Unknown  |
|                        | Source of funding: Unknown  |
|                        | <ul> <li>Project scope costs and savings have been estimated<br/>based on expected savings for technology types.</li> </ul>   |
| Resources              | Project scope identified by Capita Symonds and<br>Energy and Environmental Management Team  |
| Ensuring               | Securing funding for staged roll out of project.  |
| Success                | <ul> <li>Where possible installing Biomass boilers to capitalise<br/>on maximum carbon savings and the Renewable Heat<br/>Incentive</li> </ul>  |
| Measuring<br>Success   | <ul> <li>The consumption at sites will be monitored to provide<br/>evidence of progression towards target. Monitoring of<br/>consumption will take place annually.</li> </ul>   |
| Timing                 | To be reviewed as part of the CMP   |
| Notes                  |   |

| Project:             | Proposed Photo Voltaic (fit) Scheme  |
|----------------------|--|
| Reference:           | CMP 29   |
| Owner                | Mo Kundi   |
| (person)             |  |
| Department           | Planning & Economic Regeneration   |
| Description          | To install Photo Voltaic equipment at a variety of suitable sites in Sefton and claim the Feed in Tariff   |
| Benefits             | <ul> <li>Financial savings: £ 59,248 pa</li> </ul>   |
|                      | <ul> <li>Payback period: 12.84 years</li> </ul>  |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 322.4 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 3.61 %  |
| Funding              | Project cost: £3,992,120   |
|                      | <ul> <li>Operational costs: £-251,632 (Expected electricity<br/>savings and income from Feed in Tariff for 25 years)</li> </ul>  |
|                      | Source of funding: Unknown   |
|                      | Project is still in the planning stage   |
| Resources            | <ul> <li>Savings were identified by the Planning&amp; Economic<br/>Regeneration/Energy &amp; Environmental Team and works<br/>will be carried out by Capita Symonds</li> </ul>               |
| Ensuring<br>Success  | <ul> <li>Further feasibility research will need to be carried out<br/>to ensure sites are suitable for PV technology.</li> </ul>   |
|                      | <ul> <li>That the income from Feed in Tariffs remains high.</li> </ul>   |
|                      | <ul> <li>Ensuring electricity use at project sites pre-installation<br/>of PV's is managed, in order that renewable energy is not<br/>wasted.</li> </ul>                                     |
| Measuring<br>Success | Reduction in consumption on electricity bills as load is transferred to renewable source.  |
| Timing               | <ul> <li>Project is still in the planning stage and funding is yet<br/>to be secured. It is expected that this project will be rolled<br/>out towards the end of the 5 year plan.</li> </ul> |
| Notes                |  |

| Project:             | Magdalen House Lighting Controls  |
|----------------------|---|
| Reference:           | CMP 30  |
| Owner                | Stephanie Hopkin  |
| (person)             | Ctophame Hopam  |
| Department           | Civic Buildings   |
| Description          | To install light switches in the Magdalen House building , in   |
|                      | addition to light sensors already in place  |
| Benefits             | Financial savings: £2,923 pa  |
|                      | Payback period: 4.5 years   |
|                      | <ul> <li>CO<sub>2</sub> Emissions reduction: 15.9 tonnes of CO<sub>2</sub> pa</li> </ul>  |
|                      | • % of target: 0.18 %   |
| Funding              | Project cost: £ 13,289  |
|                      | Operational costs: £0   |
|                      | Source of funding: Salix  |
|                      | Project Completed Spring 2011   |
| Resources            | Savings were identified by the Energy & Environmental<br>Team and works were carried out by Capita Symonds                                  |
| Ensuring<br>Success  | <ul> <li>As part of the communications campaign staff will be<br/>made aware of the need to conserve energy and reduce<br/>costs</li> </ul> |
|                      | Staff refusal / unwilling to operate switches   |
| Measuring<br>Success | Electricity bills will be compared to identify savings / reductions   |
| Timing               | Completed March 2011  |
| Notes                |   |

| Project:            | Eco Centre LED Lighting System   |
|---------------------|--|
| Reference:          | CMP 31   |
| Owner               | Stephanie Hopkin   |
| (person)            | Civia Duildings  |
| Department          | Civic Buildings  |
| Description         | To replace the existing lighting system at the Eco Centre with LED   |
| Benefits            | <ul> <li>Financial savings: £2,300 pa</li> </ul>   |
|                     | Payback period: 3 years  |
|                     | <ul> <li>CO<sub>2</sub> Emissions reduction:12.5 tonnes of CO2 pa</li> </ul>   |
|                     | • % of target: 0.14%   |
|                     | 76 Of larget. 0.14 /6  |
| Funding             | Project cost: £7,000   |
|                     | <ul> <li>Operational costs: Unable to quantify the reduced</li> </ul>  |
|                     | operational and maintenance costs. But expected to be  |
|                     | highly reduced as this is 'fit and forget' technology.   |
|                     | Source of funding: Salix   |
|                     | Project: to be completed 2011/12   |
| Resources           | Savings were identified by the Energy & Environmental  |
|                     | Team and works were carried out by Capita Symonds  |
| Ensuring<br>Success | <ul> <li>The deployment and maintenance of the LED system<br/>is critical to the success of this project.</li> </ul>   |
|                     | Risks to the success of this project include the   |
|                     | unauthorised removal of the LED lights or lack of  |
|                     | maintenance  |
| Measuring           | The consumption levels for this location will be   |
| Success             | monitored to provide evidence of progression. Monitoring   |
|                     | of consumption will take place annually  |
| Timing              | Project is expected to be completed by April 2012.   |
|                     | 5,500 10 01,500 10 00 00 11,500 00 1 1,500 0 |
| Notes               | Consumption levels will be compared for corresponding  |
|                     | levels of consumption annually.  |

| Project:    | Low Emissions Procurement Tool  |
|-------------|---|
| Reference:  | CMP 32  |
| Owner       | Stephanie Jukes / Brian Gibson  |
| (person)    |   |
| Department  | Built Environment / Finance (Procurement)   |
| Description | To practically implement a low emissions 'tool' within the working procurement process.   |
| Benefits    | Financial savings: Unknown  |
|             | Payback period: Unknown   |
|             | <ul> <li>CO<sub>2</sub> Emissions reduction: (Estimate) CO<sub>2</sub> Emissions<br/>reduction:100 tonnes of CO<sub>2</sub> pa from 2012</li> </ul>   |
|             | % of target: Unknown  |
|             | <ul> <li>Long tem mechanism for achieving carbon savings</li> </ul>   |
|             | <ul> <li>Provides a mechanism for measuring carbon via<br/>procurement which currently isn't measured.</li> </ul>   |
| Funding     | Project cost: £24,000   |
|             | Source of funding: Low Emissions Partnership  |
| Resources   | <ul> <li>Procurement Officer will spend 6 months developing<br/>and implementing the tool within the existing<br/>procurement process</li> </ul>  |
|             | <ul> <li>Air Quality and Sustainability Officer will provide<br/>support and guidance</li> </ul>  |
| Ensuring    | Risks to the success of this project include  |
| Success     | <ul> <li>Staff changes within procurement team (Short term) – to address this, agreement has been gained from the Head of Finance that there will be staff committed</li> </ul>   |
|             | <ul> <li>Time pressure on procurement staff, therefore lack of<br/>time to fully implement subsequent activities i.e. the<br/>sustainable procurement policy (Medium term) –<br/>Efforts will be made to do as much as possible during<br/>the 6 month project and subsequent networking,<br/>future funding opportunities will be considered.</li> </ul> |
|             | <ul> <li>Rogue procurement that does not go through the<br/>procurement teams, and may be high carbon or<br/>carbon savings may not be captured (Medium /long<br/>term) – Procurement team are addressing this issue.<br/>Partners (Capita /Arvato etc) will be encouraged to<br/>utilise the tool during the 6 month project.</li> </ul>                 |
|             | <ul> <li>Lack of funding by buyers to achieve the low carbon<br/>procurement option (short / medium term) - efforts<br/>will be made to consider whole life costings during<br/>the project which should help make a stronger<br/>argument for paying higher up front costs.</li> </ul>   |

| Measuring<br>Success | <ul> <li>The tool will include a measure of CO2 saved where applicable.</li> </ul>  |
|----------------------|---|
|                      | <ul> <li>The development of the tool will consider monitoring<br/>and how the measure of CO2 and whole life costings are<br/>incorporated into the existing procurement reporting<br/>process.</li> </ul> |
| Timing               | <ul> <li>The project is due to begin in September 2011 with<br/>completion 6 months later (by March 2012)</li> </ul>  |
| Notes                |   |