Major Service Areas (excluding schools and housing)	tCO2 emissions 2008/09 (taken from NI 185)	10% CO2 reduction target
Streetlighting	2650	265
Buildings Electrical	2660	266
Buildings Heating	3250	325
Transport	3640	364
TOTAL	12200	1220

TOTAL	12200	1220									
Activity	Project	Total CO2 emissions for activity	Estimated CO2 savings (t)	Cumulative	% saving	Estimated cost (£) Capital Revenue	Financial savings (£)	Funding secured?	Notes (including other impacts e.g on air quality)	Risks (e.g. requires behaviour change)	Lead department
Streetlighting											
Mercury lanterns replacement	1,300 mercury vapour lanterns will be replaced with modern alternatives. On completion, all mercury vapour lanterns will have been removed from the City.	120	120	120	9.51%	£132,000.00	21,242 / year	Funding anticipated from 2010/11 capital programme*		Funding is not allocated from the capital programme; lanterns do not perform as expected	Highway infrastructure
2. 250 watt to 150 watt lantern conversions	50 250 watt lanterns will be replaced with 150 watt white light examples. The project will build on the work undertaken in 2009/10 which installed 50 such lanterns in the city centre.	12	12	132	0.95%	£17,500.00	2,080 / year	Funding anticipated from 2010/11 capital programme*		Funding is not allocated from the capital programme; lanterns do not perform as expected	Highway infrastructure
3. Solar bollards	The project involves disconnecting 50 bollards/signs from the mains electricity supply and using solar panels to provide the power needed to operate them.	11	11	143	0.87%	£25,000.00	2,000 / year	Funding anticipated from 2010/11 capital programme*		Funding is not allocated from the capital programme; bollards do not perform as expected	Highway infrastructure
4. LED lanterns	50 lanterns will be replaced with LED alternatives. The project builds on a trial which took place during 2009/10 with 10 LED lanterns in the South Bank area of the city.	2	2	145	0.16%	£25,000.00	427 / year	Funding anticipated from 2010/11 capital programme*		Funding is not allocated from the capital programme; lanterns do not perform as expected	Highway infrastructure
TOTAL		2650	145								
Buildings Electrical											
5. powerPerfector voltage optimisers	powerPerfector is a voltage power optimiser, giving energy, cost and carbon savings by efficiently optimising a site's supply voltage. By optimising the voltage, electrical equipment runs more efficiently and consumes less energy. The project will install one device in the workshops at	18	18	163	1.43%	£16,901.00	3,388 / year	Funding anticipated from Salix Finance.		Funding is not allocated from Salix Finance, powerPerfector does not perform as expected	Energy team
TOTAL	the EcoDepot.	2660	18								
TOTAL Buildings Heating also (the EcoDepot.	2660	18								
		Currently unable to quantify the amount of CO2 emissions which are caused directly by staff.	300	463	23.77%	£0.00	5,000 / year	Yes		Requires behaviour change; activities have limited effect in reducing emissions	Energy and sustainability teams
Buildings Heating also (6. Staff awareness, training visits and turn	note includes some Electrical savings) Smart meters have been installed in a number of Council buildings. The installation of new meters will help in monitoring and inform staff on site of how well their improvement measures are working. A programme of training is to be established for key staff. A programme of disseminating clear advice to to building users will be developed via a network of Energy Champions. The turning the heating down project involves ensuring that all Council buildings are heated to a	Currently unable to quantify the amount of CO2 emissions which are caused		463 812	23.77%	£0.00	No saving - £10,000 cost / year as a result of the fuel for the biomass boiler, which is more expensive than gas at present.	Yes	Potential air quality issues as a result of the use of a biomass boiler at the site	change; activities have limited effect in	
6. Staff awareness, training visits and turn heating down 7. Oaklands Sports Centre 8. Building rationalisation	note includes some Electrical savings) Smart meters have been installed in a number of Council buildings. The installation of new meters will help in monitoring and inform staff on site of how well their improvement measures are working. A programme of training is to be established for key staff. A programme of disseminating clear advice to to building users will be developed via a network of Energy Champions. The turning the heating down project involves ensuring that all Council buildings are heated to a maximum temperature of 19°C. The existing Oaklands Sports Centre has been extended to incorporate a new swimming pool. This replaces Edward	Currently unable to quantify the amount of CO2 emissions which are caused directly by staff.	300 349 450				No saving - £10,000 cost / year as a result of the fuel for the biomass boiler, which is more expensive		issues as a result of the use of a biomass boiler at	change; activities have limited effect in reducing emissions Building does not perform as well as expected; building is managed in a poor manner; biomass fuel	sustainability teams
6. Staff awareness, training visits and turn heating down 7. Oaklands Sports Centre 8. Building	note includes some Electrical savings) Smart meters have been installed in a number of Council buildings. The installation of new meters will help in monitoring and inform staff on site of how well their improvement measures are working. A programme of training is to be established for key staff. A programme of disseminating clear advice to to building users will be developed via a network of Energy Champions. The turning the heating down project involves ensuring that all Council buildings are heated to a maximum temperature of 19°C. The existing Oaklands Sports Centre has been extended to incorporate a new swimming pool. This replaces Edward Wilson swimming pool which has closed. As a result of the new Oaklands Sport Centre, Edward Wilson swimming pool is surplus to requirements. Therefore, the Council is no longer paying for the tuel to heatfurn the buildings and as a result has a result heatfurn the buildings and as a result has result has result has result has result has	Currently unable to quantify the amount of CO2 emissions which are caused directly by staff.	300	812	27.66%	n/a	No saving - £10,000 cost / year as a result of the fuel for the biomass boller, which is more expensive than gas at present. No saving - The budget which was used to run the swimming pool has been transferred to Oaklands Sports	Yes	issues as a result of the use of a biomass boiler at	change; activities have limited effect in reducing emissions Building does not perform as well as expected; building is managed in a poor manner; biomass fuel found to be too costly	sustainability teams Property services
6. Staff awareness, training visits and turn heating down 7. Oaklands Sports Centre 8. Building rationalisation	note includes some Electrical savings) Smart meters have been installed in a number of Council buildings. The installation of new meters will help in monitoring and inform staff on site of how well their improvement measures are working. A programme of training is to be established for key staff. A programme of disseminating clear advice to to building users will be developed via a network of Energy Champions. The turning the heating down project involves ensuring that all Council buildings are heated to a maximum temperature of 19°C. The existing Oaklands Sports Centre has been extended to incorporate a new swimming pool. This replaces Edward Wilson swimming pool which has closed. As a result of the new Oaklands Sport Centre, Edward Wilson swimming pool is surplus to requirements. Therefore, the Council is no longer paying for the tuel to heatfurn the buildings and as a result has a result heatfurn the buildings and as a result has result has result has result has result has	Currently unable to quantify the amount of CO2 emissions which are caused directly by staff.	300 349 450	812	27.66%	n/a	No saving - £10,000 cost / year as a result of the fuel for the biomass boller, which is more expensive than gas at present. No saving - The budget which was used to run the swimming pool has been transferred to Oaklands Sports	Yes	issues as a result of the use of a biomass boiler at	change; activities have limited effect in reducing emissions Building does not perform as well as expected; building is managed in a poor manner; biomass fuel found to be too costly	sustainability teams Property services