housing)	tCO2 emissions 2008/09 (taken from NI 185)	target
Streetlighting	2650	265
Buildings Electrical	2660	266
Buildings Heating	3250	325
Transport	3640	364
TOTAL	12200	1220

Activity	Project	Total CO2 emissions for activity	Estimated CO2 savings (t)	Cumulative	% saving towards target	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						Revenue					
1. 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	9.84%	£132,000.00	21,242 / year	Funding allocated in 2010/11 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	0.98%	£17,500.00	2,080 / year	Funding allocated in 2010/11 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	0.90%	£25,000.00	2,000 / year	Funding allocated in 2010/11 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 allocated in 2010/11 Capital Programme		Lanterns do not perform as expected	Highway infrastructure
5. Sodium to fluorescent lantern conversion	Approximately 2,675 sodium lanterns will be replaced with fluorescent alternatives	118	118	263	9.67%	£250,000.00		Funding allocated in 2010/11 Capital Programme		Lanterns do not perform as expected	Highway infrastructure
TOTAL Buildings Electrical		2650	263								
6. 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 the EcoDepot.	18	18	281	1.48%	£16,901.00	3,388 / year	Funding obtained from Salix Finance		powerPerfector does not perform as expected	Energy team
TOTAL		2660	18								
Buildings Heating also ((note includes some Electrical savings)										
7. Staff awareness, training visits and turn heating down	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.	Currently unable to quantify the amount of CO2 emissions which are caused directly by staff.	300	581	24.59%	£0.00	5,000 / year	Yes		Requires behaviour change, activities have limited effect in reducing emissions	Energy and sustainability teams
							No saving - £10,000 cost / year as a			Building does not perform as well as	
8. Oaklands Sports Centre	The existing Oaklands Sports Centre has been extended to incorporate a new swimming pool replacing Edmund Wilson swimming pool which has closed. The carbon savings associated with Oaklands Sports Centre come from the use of biomass as the main fuel for heating.	n/a	349	930	28.61%	n/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	expected; building is managed in a poor manner; biomass fuel found to be too costly	Property services
	been extended to incorporate a new swimming pool replacing Edmund Wilson swimming pool which has closed. The carbon savings associated with Oaklands Sports Centre come from the use of	n/a 3250	349 649	930	28.61%	n/a	the biomass boiler, which is more expensive than gas	Yes	as a result of the use of a	expected; building is managed in a poor manner; biomass fuel	Property services
Centre	been extended to incorporate a new swimming pool replacing Edmund Wilson swimming pool which has closed. The carbon savings associated with Oaklands Sports Centre come from the use of			930	28.61%	n/a	the biomass boiler, which is more expensive than gas	Yes	as a result of the use of a	expected; building is managed in a poor manner; biomass fuel	Property services