

**GOLDSMITHS**  
**University of London**

**ESTATES COMMITTEE**

**ENVIRONMENTAL & SUSTAINABILITY SUB-COMMITTEE**  
**27<sup>th</sup> May 2011**

**UPDATE ON WASTE STRATEGY**

**1 Background**

Last year I put forward the new Waste Management Strategy And Action Plan, which was approved by Council.

This paper is to provide an update as to where the college has got to in its aims of reducing waste to landfill, and increasing recycling.

**2 Target Recap**

I set us a rather ambitious target of reducing our waste to landfill by 50% by 2012.

**3 Progress**

I'm very happy to report, that by working with our waste contractor, I can report that we currently send 0% (zero) waste to landfill.

**4 Where Does Our Waste Go**

While this is a great headline, it is not as amazing as it seems.

That which cannot be recycled is processed by our waste contractor to create a Refuse Derived Fuel (RDF). The RDF goes to the SELCHP plant just round the corner from Goldsmiths.

SELCHP is a large facility that burns waste (and RDF) to produce electricity, and, in theory produces heat for exporting.

SELCHP do produce electricity, but do not yet export their heat.

So, while our waste is not all recycled, it is at least being re-used, as a fuel for generating electricity. This is deemed a "low-carbon" source of electricity.

The RDF is an efficient method of turning general rubbish into something that burns with a high calorific value, thereby increasing the amount of useful energy versus normal rubbish that is burnt at the plant.

**5 Recycling**

We have increased the amount of waste we recycle.

a) General Recycling

The NAB is a recycling building, and the waste is collected from the dedicated recycling bins in the building, and placed into the large Eurobins at the rear of the NAB. This is taken away by our waste contractor, and is sent for sorting and recycling within the UK.

b) Paper

We have moved away from the only white paper recycling system to a system that will take all paper types, including newspapers, magazines, envelopes etc etc.

The plain white paper system was supposed to earn the college money, but with the high levels of contamination coming from good-intentioned people placing the wrong paper types in the bins, we were having to pay to have the paper collected.

Therefore, to get as much paper based products recycled as possible, and following discussions with our waste contractor, it was agreed that they could take any paper-type product in the same bin.

#### c) Furniture

I recently launched the Furniture Re-Use scheme on my webpages.

The basics for this scheme are: unwanted furniture is taken to St James church for storage and cataloguing. It then gets listed on website. People have a look and see what they want, fill in a simple form, and it gets delivered to them.

I could do with some help administering this project please.

#### d) Cardboard

All the compactors have been put together in one place to overcome the "laziness" by some of not taking the cardboard to the correct compactor.

Nearly all our cardboard is now recycled via the compactor.

#### e) Wood

I have successfully placed a wood skip at the rear of campus outside Hut E. This has a lot of wood that is recycled on site (e.g. people look in the skip and take out items they need for projects etc – and this is great).

However, there is still work to be done on persuading our trades to send all the wood waste we generate up to the wood skip.

#### f) Metal

I was going to have a "metal" skip similar to the wood skip. However, I decided not to because there would be a charge for the skip, and there is a great big magnet at our contractors site that automatically pulls out any metal items (thereby ensuring it gets recycled).

#### g) Loring Sports Ground

Following discussions with the staff there, it was decided that we would try and set up a recycling scheme for the grounds.

Having discussions with the nice local council meant that they were happy to provide us with a recycling collection service for free (providing there was no cross-contamination).

To date I have not received any reports of problems with the scheme, so am happy that it looks to be working well.

The staff at LSG already were recycling their grass clippings and other organic waste in conjunction with local allotments that border the sports ground.

#### h) Composting

We now have a composting area on campus for the gardeners to use for trimmings etc. This is located in the garden of St James halls.

Not all clippings can be put in the compost due to some areas containing glass and other sharps.

Large clippings are kept to one side, and every few months a chipper is hired in to chip the clippings.

#### i) Food Waste

Following the eventual success of the food waste bin for the NAB, I decided to try and roll this out to the main kitchens. The main reason for this is that the bulk of the food waste was either going into macerators in the kitchen (which use a lot of electricity and water, and can lead to blocked drains), or waste was going in the compactors.

With great support from all at Compass, we trialled, and are now running a full food waste separation scheme.

All food waste is collected twice a week from 4 wheelie-bins located outside the goods-in entrance.

The food waste is taken to an advanced indoor composting facility in Mitcham, where it is turned into compost within 72 hours.

There is still more to be done on the food waste – I want to get all the kitchenettes in all the buildings collecting their food waste separately.  
Any ideas welcome!

#### j) Waste Electrical Equipment

At the moment, we don't have a good coherent policy for dealing with waste electrical items. Apart from IT equipment, these are generally dealt with on an ad-hoc basis, or still placed in skips.  
The plan is that an area is being set aside for all waste electrical equipment. People can either take the waste, or have the porters place it there. Once the storage area is full, we will make the necessary arrangements to have it disposed of correctly.

### **6 CDWaste Audit Trail**

Attached to this document is the waste audit trail provided by CDWaste, our waste contractor. This shows where all our various waste streams are taken to / disposed of.

### **7 Actions**

#### a) General Recycling

We need to try and increase the general waste recycling, because while it is good to not send anything to landfill, sending it for waste-to-energy is the lesser of two evils.

#### b) Furniture Re-Use Scheme.

I would really appreciate some help with this now that it is up and running.

#### c) Food Waste

All suggestions welcome as to how to make collection of food waste from all kitchenettes a realistic possibility.

#### d) Waste Electrical

I need to chase harder to get this area set-up.

#### e) Skips

Less wood, cardboard, electricals and furniture is to be placed in these. Any suggestions about how this can be promoted would be great.

Richard Groves  
May 2011



Audit Trail

for

GOLDSMITHS

Presented by

Mark Selby  
Business Development manager  
CD Waste Management Ltd

## **Cradle to Grave**

Below we have shown a full audit trail on wastes to be collected from Moor House,

### **Cardboard / Mixed Paper/ White Paper:**

Recycling UK Ltd  
11 Alvaston Business Park  
Middlewich Road  
Nantwich  
Cheshire  
CW5 6PF  
Site License: CB/AN5271CA

TGM Environmental Ltd  
55 New Lydenburg Street  
Charlton,  
SE7 8ND  
Site License: Exempt

### **Plastics:**

AWS Eco Plastics Ltd  
Unit 2 Britannia Business Park  
Pont Pleasant Industrial Estate  
Wallsend  
Tyne & Wear  
NE28 6HA  
Site License: EAWML73274

### **Aluminium & Steel Cans:**

W.N. Thomas and Sons Ltd  
Metal Recyclers  
Slough  
SL1 3QA  
Site License: TSE54124437

**Electrical Equipment /Car Batteries / Fluorescent Tubes:**

Wiser Recycling Ltd  
11 Manor Mews  
Bridge Street  
St Ives  
PE27 5UW  
Site License: ACE/109476 CB

**Glass Bottles:**

Day Aggregates Ltd  
Transport Avenue  
Brentford, Middlesex  
TW8 9HF  
Site License: TE3ELDAY

**RDF Mixed Recyclables:**

CD Waste  
Deptford Recycling Centre  
Landmann Way  
Deptford  
SE14 5RS  
Site License: TSE388520CB

**Wood:**

Metropolitan Waste Management Ltd  
185 Manor Road  
Erith  
Kent  
DA8 2AD  
Site License: LWRA 274343

**Food:**

Vertal Ltd  
Riverside House  
43 Willow Lane  
Mitcham. CR4 4NA

Country style Recycling Ltd  
Stanford Bridge Farm  
Station Road  
Pluckley, Ashford  
Kent TN27 ORU  
Site License: EAWML10367

**RDF (Refuge Derived Fuel, Flock)**

Blackbridge Farm  
Cranford  
Burton Latimer  
Northamptonshire  
NN15 5LZ  
Site License: EPRDP309EVN

**RDF (Refuge Derived Fuel, Flock)**

Slough Heat and Power  
342 Edinburgh Avenue  
Slough  
SI1 4TU

**Contaminated Residual Waste**

SELCHP Waste to Energy Facility  
Landmann Way  
Deptford  
SE14 5RS

**Hazardous Wastes**

Williams Environmental Limited  
Unit 3 Charles Street Industrial Estate  
Charles Street  
Silvertown  
London  
E16 2BY  
Site License: WP3336SA

**Clinical Waste**

Polkacrest Limited  
Platt Industrial Est  
Maidstone Road  
Seven oaks  
Kent  
TN15 8JL  
Site License: CB/EN5919CJ

Other materials generated from the premises will be recovered pre sorted at our recycling centre materials which can be re- used will be recovered and reprocessed residual materials NOT SUITABLE FOR THE COMODITY MARKET would be recycled waste to energy via RDF (Refuse derived fuel) process.

Other waste materials Produced (Controlled Waste streams)

**Clinical.**

WEE (Electronic wastes,fluorescent tubes and bulbs.

**Hazardous waste.**

CDW waste will provide a service to be tailored to NB ENTRUST for the removal and disposal of all materials stated above.

These services requiring specialist equipment ,trained operatives.Providing the knowledge and expertise for the reprocessing and disposal of these controlled waste streams.

CDW core business is not providing these service direct we have partnered with

Williams Enviromental ltd for removal of Hazardous materials.

Polkacrest for the removal of Clinical Wastes

Wiser for the removal of WEE materials.

CDW have worked in partnership with these companies for many years.

They have proven over the years to be complete reliable and cost effective we are able to schedule collections for our clients into their collection rounds which reduces the carbon footprint and costs.