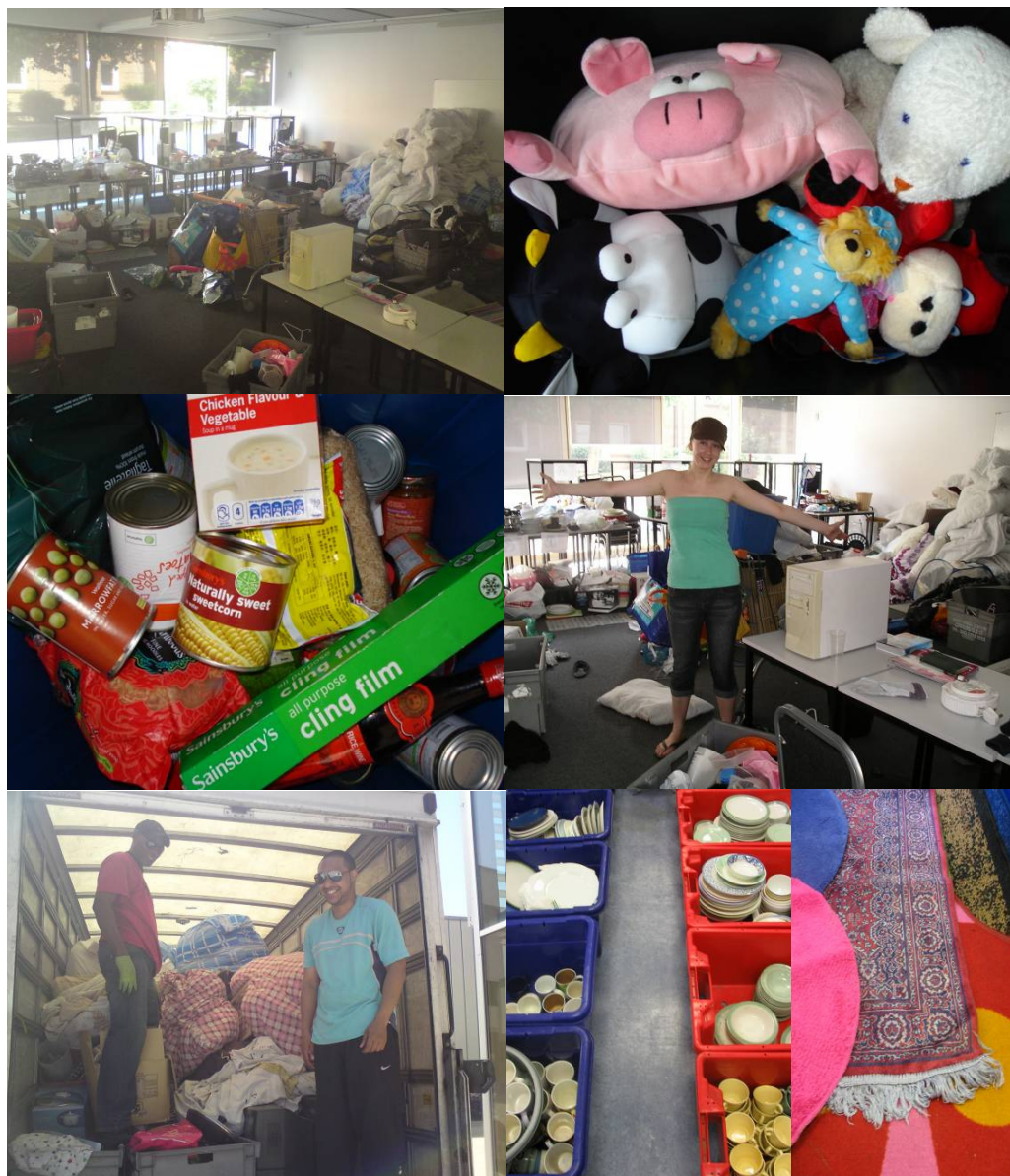


University of Greenwich Halls of Residence Reuse Scheme 2010



Final Report
July 2010

CRISP working in partnership with University of Greenwich

Acknowledgements to the assistance and enthusiasm of the halls managers, staff, cleaners, volunteers and students of the participating University of Greenwich Halls of Residence at the Avery Hill Campus

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CRISP is a project of the charity and not for profit company Elephant Jobs (registered charity no. 1112662 registered company no. 1343924)

1. Introduction

Over the summer of 2010 the London University Halls of Residence Reuse Scheme once again worked with the management, staff and students living in University Halls of Residence across London, helping ensure that donated unwanted goods and items left behind by vacating students were reused and/or recycled, thereby preventing valuable resources being sent to landfill and ensuring the maximum social, environmental and economic benefit from reuse.

This year the University of Greenwich decided that as a pilot the 7 halls of residence located at the Avery Hill Campus should participate in the Halls of Residence Reuse project, this is a brief report of the out come of this pilot.

At the end of the academic year under-graduate and post-graduate students living in halls of residence move out of halls accommodation, often leaving behind a wide variety of personal items such as clothes, bedding, kitchen equipment, books and electrical goods, which they either no longer have a use for or which they cannot transport to their new homes.

The key element of the London University Halls of Residence Reuse Scheme is to collect all this reusable material left behind by students in the short period between the students vacating their accommodation and the Halls of Residence often being open as 'Hostel and Hotel' accommodation to fee paying guests during the summer.

Building on the success of last years scheme, over the months of June and July 2010 CRISP worked with 42 University Halls of Residence, providing accommodation to 10,256 students from over 9 different London Universities located across 7 London Boroughs

Participating Universities include:

- City University London
- Guild Hall School of Music & Drama
- Imperial College London
- London Metropolitan (Opal 4 Group)
- London School of Economics and Political Science
- London South Bank University
- University College London
- University of Greenwich
- University of the Arts London

The London Boroughs in which the Halls are located include:

- Camden
- Greenwich
- Islington
- Kensington & Chelsea
- Lambeth
- Southwark
- Westminster

During June to July 2010 the project collected over 22.6 tonnes (22,613kgs) of donated unwanted goods and material for reuse, the equivalent of over 0.54 tonnes (540kgs) per participating Halls of Residence.

The students leaving at the end of the summer term donated materials such as clothes, shoes, duvets, kitchen equipment, CD's, books, furniture, household electrical items, IT equipment and non perishable foodstuffs. The vast majority of these unwanted goods and materials (79.2%) were diverted for reuse, while 17.8% was recycled with the remaining 3.0% having to be landfilled.

2. Project Delivery

The participating Halls of Residence at the Avery Hill Campus of University of Greenwich were provided with posters and promotional material, separation boxes and a service for the collection and redistribution of the donated reuse materials. Once collected the reuse materials were sorted, bulked up and then distributed to local, national and international charities and reuse organisations.

At the beginning of the scheme the Avery Hill Campus was visited by CRISP and the best logistics for the collection of the materials for reuse, including suitable collection rooms and promotion materials for the scheme was agreed with the on site Sustainability and Facilities Management staff.

Promotion of the scheme - Branded reuse posters were designed and distributed to assist in the promotion of the scheme which included a section to personalise posters enabling the collection point to be stated specifically for each hall. Halls managers and student volunteers and cleaners were also encouraged to promote the scheme by word of mouth.

Separation boxes – The halls on the Avery Hill Campus were issued with separation boxes to facilitate the sorting of the donated reuse materials. Large boxes with a capacity of 60 to 95litres were provided to enable greater storage space – 30 boxes were delivered, number of boxes being based on the number of students moving out and the perceived demand.

Sorting and monitoring of materials - The goods and materials were collected from each hall and taken to a reuse collection point on campus from which CRISP collected them and took them to the CRISP Reuse and Recycling Warehouse where all the items were sorted into reuse categories and then weighed according to these categories.

3. University of Greenwich Halls of Residence Reuse Results

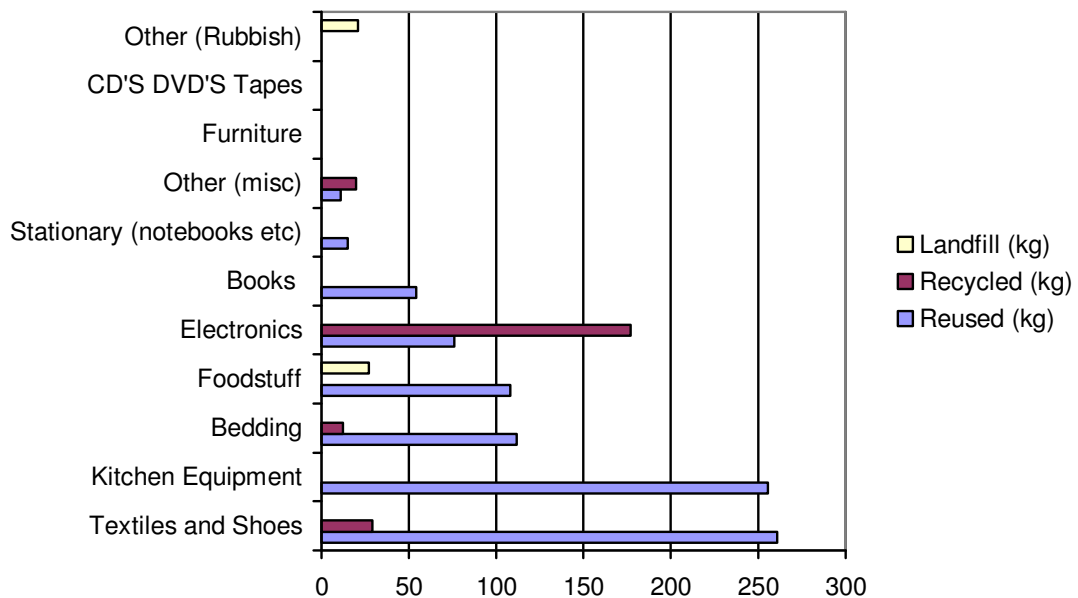
Tonnages - Goods and materials were collected from the 7 participating Avery Hill Campus halls of residence providing accommodation to 1,210 University of Greenwich students. Over the month of June 2010 the project collected 1.18 tonnes (1,178.5kgs) of unwanted goods and materials for reuse, the equivalent of 0.16 tonnes (168.3kgs) for each halls of 7 participating residence which participated in the project.

The following Table One shows the quantity of goods and materials collected and the amount reused, recycled and landfilled. Students donated materials such as clothes, shoes, duvets, kitchen equipment, CD's, books, furniture, household electrical items, IT equipment and non perishable foodstuffs. The vast majority of these unwanted goods and materials were diverted for reuse 0.89 tonnes (75.7%) while 0.24 tonnes (20.2%) was recycled with the remaining 0.05 tonnes (4.1%) having to be landfilled.

Of the different items collected over 0.372 tonnes of textiles, shoes and bedding were collected for reuse by Clothes Aid and other local charities, and just under 0.255 tonnes of kitchen equipment (pots, pans and assorted crockery), and 0.108 tonnes of non perishable foodstuff for redistribution to FoodCycle .

Table One - Total Material Collected

Reuse Scheme 2010				
Hall of Residence Name	Avery Hill Campus - 7 Halls			
Borough / University	University of Greenwich			
Date	June 2010			
Number of Students	1210			
Materials	Total Weight (kg)	Reused (kg)	Recycled (kg)	Landfill (kg)
Furniture	0.0	0.0	0.0	0.0
Foodstuff	135.0	108.0	0.0	27.0
Kitchen Equipment	255.5	255.5	0.0	0.0
Bedding	124.2	111.8	12.4	0.0
Textiles and Shoes	289.8	260.8	29.0	0.0
Electronics	253.0	76.2	176.8	0.0
Books	54.0	54.0	0.0	0.0
CD'S DVD'S Tapes	0.0	0.0	0.0	0.0
Stationary (notebooks etc)	15.0	15.0	0.0	0.0
Other (misc)	31.0	11.0	20.0	0.0
Other (Rubbish)	21.0	0.0	0.0	21.0
Total	1178.5	892.3	238.2	48.0
%	100.0%	75.7%	20.2%	4.1%
Kg / Student	0.97	0.74	0.20	0.04



4. CO₂ (e) Reduction through Reuse and Recycling

In addition to providing an audit of the tonnage of material collected and the amount reused and/or recycled, this year the University Hall of Residence Reuse Scheme is also able to report the estimated CO₂ (e) reduction which the reuse and recycling component of the project represents.

Reuse provides the best way of reducing the environmental impact of existing goods and materials by extending their lifespan. The environmental impact of an item can be reduced by either increasing the resource efficiency within its manufacturing process or by extending its useable lifespan. As determined by life-cycle analysis the phase that is most likely to reduce environmental impacts of the product if altered is the first step of extracting the raw materials. Both recycling and reuse remove the need for this and therefore can significantly reduce the environmental impact of any product. Recycling, to produce raw materials ready for processing and manufacturing, still requires energy and carries a subsequent environmental impact. Reuse requires inputs and produces outputs but generally only through local transportation of goods, storage and repair facilities and administration.

One way of measuring the reduction in the environmental impact of an item is to measure the reduction in its carbon footprint otherwise know as the CO₂ (e) reduction.

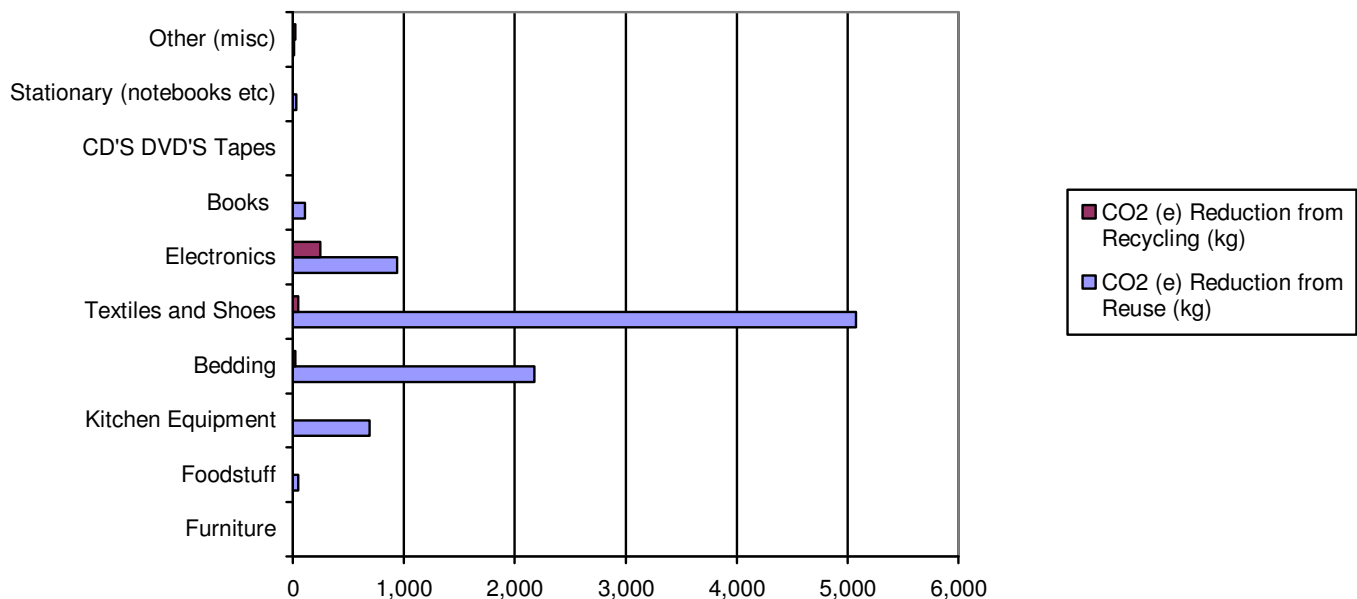
The CO₂ (e) reduction calculation use for the University Halls of Residence Reuse Scheme is based on the WRAP (Waste & Resources Action Programme) multipliers for the impact of reuse and recycling for the different material streams collected. For example the estimated CO₂ (e) reduction multiplier for the reuse of ICT and Electrical goods is x 12.35/tonne and x 1.4/tonne for recycling, while the CO₂ (e) reduction multiplier for the reuse of furniture is x 2.7/tonne and x 0.0246/tonne for recycling.

Table Two shows the CO₂ (e) reduction for the reuse and recycling of the different items and materials such as clothes, shoes, duvets, kitchen equipment, CD's, books, furniture, household electrical items, IT equipment and non perishable foodstuffs. Based on these estimates reuse accounted for 9.08 tonnes of CO₂ (e) reduction while recycling accounted for 0.34 tonnes of CO₂ (e) giving a total of 9.42 tonnes of CO₂ (e) saved by the project, an equivalent of 7.8kgs per student.

For the University Halls of Residence Reuse project as a whole the total CO₂ (e) reduction based on the 22.6 tonnes collected for reuse and/or recycling was over 250 tonnes of CO₂ (e).

Table Two – CO₂ (e) Reduction through Reuse and Recycling

Reuse Scheme 2010			
Borough / University	Avery Hill Campus - 7 Halls		
Borough / University	University of Greenwich		
Date	June 2010		
Number of Students	1210		
Materials	CO2 (e) Reduction from Reuse (kg)	CO2 (e) Reduction from Recycling (kg)	Total CO2 (e) Reduction (kg)
Furniture	0	0	0
Foodstuff	49	1	50
Kitchen Equipment	690	0	690
Bedding	2,176	22	2,198
Textiles and Shoes	5,078	51	5,129
Electronics	941	248	1,189
Books	108	0	108
CD'S DVD'S Tapes	0	0	0
Stationary (notebooks etc)	30	0	30
Other (misc)	11	20	31
Other (Rubbish)	0	0	0
Total	9,083	341	9,424
%	96.4%	3.6%	100.0%
Kg / Student	7.5	0.3	7.8



5. University Halls of Residence Reuse Benefits

This year the number of participating halls of residence grew once again, from 33 in 2009 to 42 in 2010, with two additional Universities joining the scheme – University College London and University of Greenwich. The scheme collected over 22.6 tonnes of material for reuse compared with 20 tonnes in 2009, and on a like for like basis the average amount of material collected for reuse from all the participating University Halls was 0.54 tonnes which compares to 0.56 tonnes last year, which is respectable given that the scheme introduced 9 new halls of residence to the scheme.

In addition unlike previous years when the project was largely dependent on grant funding mainly from Local Authorities to cover the cost of the project delivery, this year 100% of the projects costs was covered by the participating halls, accommodation management agencies, and the Universities themselves, demonstrating the perceived worth and viability of the project among the halls and universities benefiting. In addition the project benefited from in kind support from Islington Council, Westminster Council and from Southwark Council (through Veolia ES Southwark Limited) who lent additional collection bins to the project.

As well as providing a viable management option replacing the disposal of unwanted goods and materials left by departing students, the project also continues to play an important part in reinforcing the better sustainable management practices by university halls of residences including waste minimisation and recycling initiatives. As well as the environmental benefits of diverting valuable resources from landfill and helping to reduce the environmental impact of the halls and their student residents, the project continues to deliver wider reaching social benefits. Many of the items collected were distributed to socially disadvantaged members of the community through homeless charities, charity shops and using the reuse network established in London including LCRN and OFFERS/Ex-IT. The table below outlines some of the numerous other reuse outlets benefiting from the project.

British Heart Foundation
Clothes Aid - Textiles charity
Emmaus
FAST (Furniture Action South Thames) – Household goods reuse scheme
FoodCycle
Homestore
Hospitals – took the crutches from the scheme.
Red Cross refugee unit
Southwark Refugee Council
St Mungo's homeless shelter
TRAID – Textiles charity

6. London University Halls of Residence Reuse Scheme - Features

- Provides integrated solution to the collection of all items for Reuse, Recycling or Disposal – one off collection or staged collections to suit Halls management
- In full compliance with the Environment Agency Licences and the WEEE Directive
- Fully monitored and reported – full audit trail for all waste collected including details of the tonnages of materials and goods Reused and Recycled and the tonnes of CO₂ (e) saved
- Builds on other general Waste minimisation and Recycling initiatives
- Provides opportunities for positive links with Local Authority, GLA, HEFCE, local and wider community
- Supports University and Halls Sustainability and Environmental Policies and demonstrates Corporate Social Responsibility
- Positive impact on internal management of the Halls of Residence – helps to build relations between halls management and students
- The project is able to demonstrate direct benefit of Reuse to the Charitable Sector