



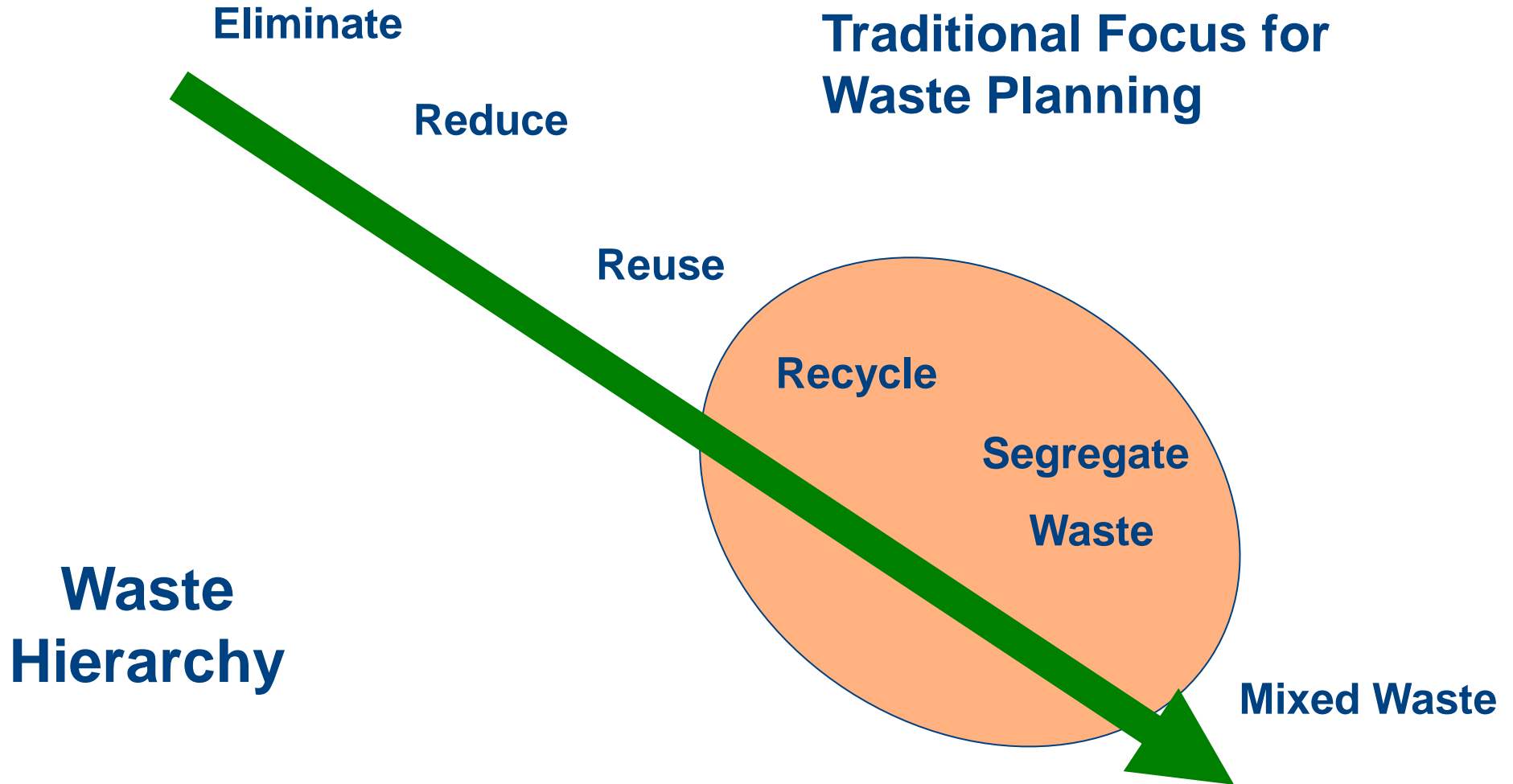
Advanced Procurement  
for Universities & Colleges

**Framework Agreement for: Waste Management  
Reference: BA-EFM009**

***Presentation to The Waste TSN  
Monday 20<sup>th</sup> June 2011  
University of Dundee***

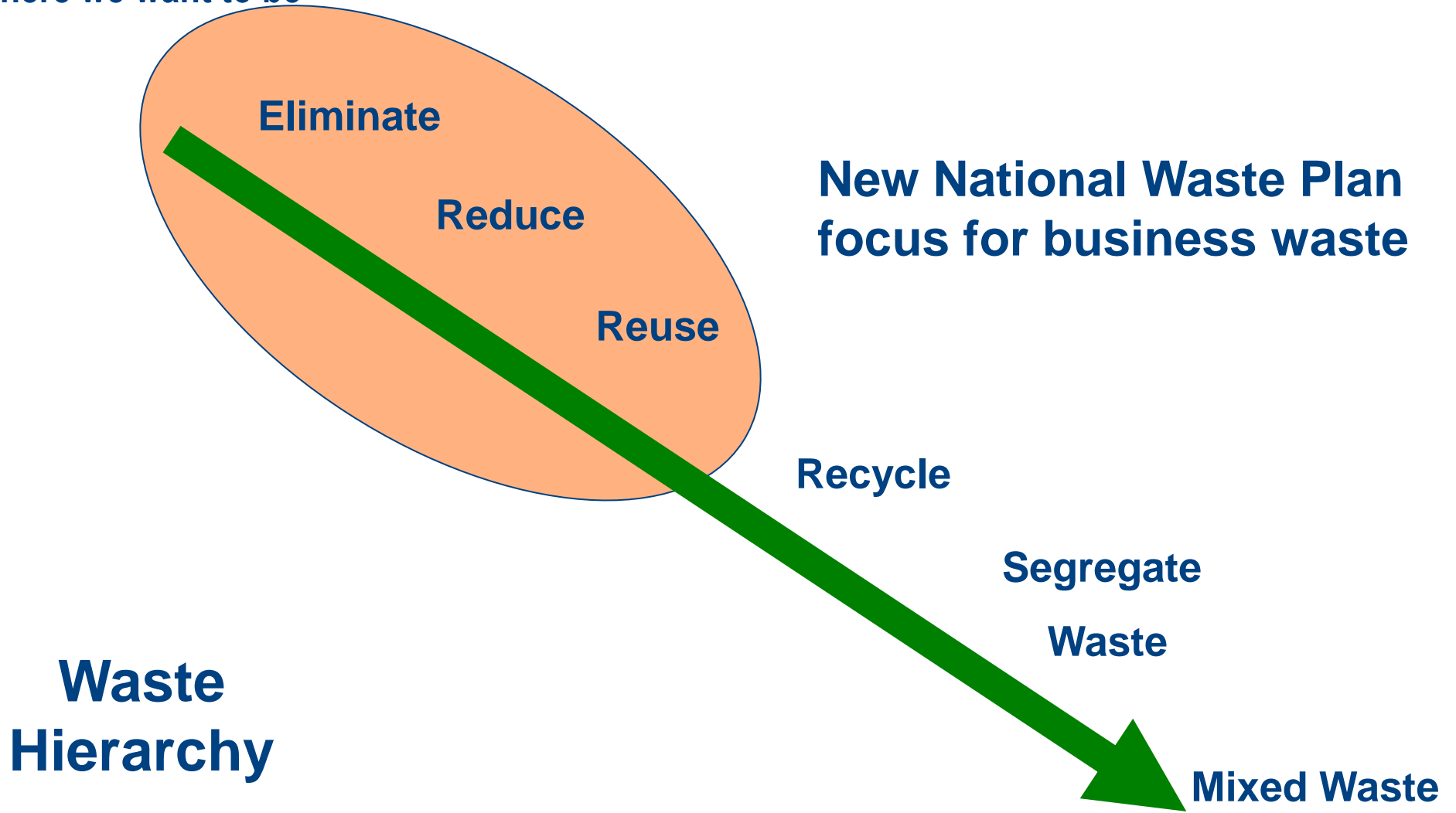
# Waste Management Services – Waste Hierarchy

Where we are



# Waste Management Services – Waste Hierarchy

Where we want to be



# Commodity Profile

	2006-2007	2007-2008	2008-2009
Considered In Scope	£1,421,732.61	£2,032,785.24	£2,178,246.19
Suppliers	55	46	56
Common in 2 or more suppliers	13	20	21
Highest number of Institutions for 1 supplier	8 – Biffa Waste	18 - Shanks	18 - Shanks
6 suppliers account for .....	56% of spend	65.2% of spend	62.86% Spend
1 supplier accounts for .....	13% of spend	33.08% of spend	23.31% of spend

Information from Waste Management survey suggest that a significant number are using Local Authority for their Waste Management Services.

# Waste Management Services – Cost Elements and Considerations

## Cost Elements

- **Waste Type**
- **Disposal costs**
- **Methodology and frequency of collection**
- **Transport**
- **Labour**
- **Tax (Landfill, Fuel Duty, VAT)**
- **Containers**
- **Storage Area**
- **Compliance with legislation (financial penalties) and initiatives**
  - Zero Waste Initiative
  - The UK Low Carbon Transition Plan

## Government Duties and Initiatives

Both EU and UK governing bodies have identified the need to reduce landfill of waste.

Commitment levels have been introduced within the EU targeting the reduction of Municipal waste to Landfill with the following milestones in comparison to 1995 levels:

25% reduction by 2010

50% reduction by 2013

65% reduction by 2020

To enforce this significant financial penalties have been introduced for any Local Authority that does not meet this target.

Landfill tax has also been set to increase by £8 per tonne to reach £80 per tonne by April 2014 to discourage all consumers from putting waste to land fill and encourage overall reduction, in waste

Legislation has already been introduced to reduce packaging waste and the safe disposal and recycling of Waste Electronic and Electrical Equipment. These put the onus on the producer, but the consumer still has ultimate responsibility

## Scotland Zero Waste plan

- Target of 70% recycled & maximum of 5% to landfill by 2025
- Achieve targets set in the Climate Change (Scotland) Act 2009 of reducing Scotland greenhouse gas emissions by 42% by 2020 and 80% by 2050

# Waste Management Services – Cost Influence

## Areas of cost influence

Discussions with suppliers have suggested that, beyond the actual waste types the biggest factors that effect / would reduce costs to institutions:

- Size of Waste container
- Container type / collection method - Front End Loading (FEL) or REL (REL)
- Frequency of collection
- Ability to consolidate waste to single / minimal collection points
- Ability to segregate waste and recycle on site
- Ability to store
- Restrict what goes to landfill

## Alternatives to Landfill

As well as reduction in overall waste, re-use items or equipment or recovery of parts or substances there are a number of existing or future practices and services that provide a cost effective and more sustainable approach to waste disposal

- Separation of recyclates prior to landfill
  - Segregation of recyclates at source
  - separation of DMR by service provider at MRF
- Waste for Energy
  - Treatment of non-recyclate dry waste
  - Mechanical Biological Treatment – used in concrete manufacturing
  - Anaerobic digestion of Food waste

Whilst there is still a disposal cost associated with most of these alternative they in most parts lower in costs and carry less environmental impact than landfill.

Example - where Dry Mixed Recyclate (DMR) cannot be removed at source (on site) it is more cost advantageous to pay a service provider to review and segregate prior to committing to landfill - £25 per tonne charge for manual segregation versus £65-70 per tonne for land fill – or send residual waste to an Energy from Waste (EFW) plant

# Operation of Framework Agreement

- **Open to all Universities and Colleges:** The Framework will be open to all 19 HEIs and 39 of the 41 colleges in Scotland. Orkney & Shetland colleges are part of local authority and are serviced as part of their requirements
- **5 Waste Stream Schedules across 11 geographical lots.**
- **Appointed and pre-qualified Service Providers**
  - Up to Six Service Providers per Waste Stream Schedule
  - Mixture of National and Local Service Providers
  - All passed set criteria in tendering process
    - Minimum Standards (Financial Stability, Insurances, Licences & Registrations, References, etc)
    - Quality Threshold - attain a minimum of 40% of potential quality score
- **Call off (selection of Service provider) by mini-competition:**
  - Further Tender exercise / Quick Quote (depending on complexity of requirement)
  - Ability to focus on delivery of services and main requirements
- **Pre-agreed Ts&Cs:** Any additional requirement to be covered in Statement of Requirement issued at time of mini-competition
- **Pre-agreed performance levels and response timescales :** Set Minimum Standards that can be altered at the time of mini-competition if desired

# Scheduling of Waste Streams elements - Five separate Schedules

## Schedule A – Non Hazardous Waste, Recyclates and Recoverables

This waste stream covers municipal and inert waste, materials and recyclates

Waste Elements and Materials including but not limited to:	Associated Added Value Services (indicative requirements)
<ul style="list-style-type: none"><li>• General Waste (Landfill)</li><li>• Food Waste</li><li>• Grass Cuttings and other non-recyclable garden and plant matter</li><li>• Animal Bedding (non-contaminated)</li><li>• Miscellaneous</li><li>• Confidential Waste</li><li>• Paper</li><li>• DVDs, &amp; CDs,<ul style="list-style-type: none"><li>○ Magnetic Tapes</li><li>○ Other relevant storage media</li></ul></li><li>• Recyclates &amp; Recoverables<ul style="list-style-type: none"><li>○ Food Waste</li><li>○ Edible Oils</li><li>○ Plastic (PET, HDPE, PVC, PP, PS)</li><li>○ Aluminium</li><li>○ Paper (General)</li><li>○ Glass (bottles, Jars and sheet)</li><li>○ Cardboard</li><li>○ Waste Plant matter (including Garden Waste)</li><li>○ Construction Material (Rubble and inert items)</li><li>○ Metal</li><li>○ Textiles</li><li>○ Mattresses</li><li>○ Furniture</li><li>○ Timber<ul style="list-style-type: none"><li>• Pure Timber</li><li>• End of Life wood (MDF etc)</li></ul></li></ul></li></ul>	<ul style="list-style-type: none"><li>• Waste Audits</li><li>• Measurement of Waste</li><li>• Substance &amp; material identification / classification</li><li>• On-site shredding</li><li>• Containerisation / Skip Hire</li><li>• Tanker Hire</li><li>• Provision of training and promotion of best practices, including publicity materials</li></ul> <div data-bbox="1292 1001 1939 1275" style="border: 1px solid black; background-color: #ADD8E6; padding: 10px; text-align: center;"><p><b>Institutions will be able to de-select waste elements from each schedule at the time of mini-competition, as desired.</b></p></div>



# Schedule B – Waste Electrical and Electronic Equipment and Associated Materials

Waste Elements and Materials including but not limited to:	Associated Added Value Services (indicative requirements)
<ul style="list-style-type: none"> <li>• Waste Electrical &amp; Electronic Equipment (WEEE)               <ul style="list-style-type: none"> <li>○ Refrigerated</li> <li>○ Non-refrigerated</li> </ul> </li> <li>• Computer Disposal including               <ul style="list-style-type: none"> <li>○ CRT &amp; TFT monitors</li> <li>○ PC Base Units, Laptops, Netbooks (all wiped to MOD standard or hard disks destroyed where requested)</li> <li>○ Printers, Scanners, Keyboards, Mice, and other peripherals</li> <li>○ External Hard Drives</li> <li>○ USB Pens / Flash Drives</li> <li>(all wiped to MOD standard destroyed where requested)</li> <li>○ Associated cables</li> </ul> </li> <li>• Batteries</li> <li>• Miscellaneous</li> </ul>	<ul style="list-style-type: none"> <li>• Waste Audits</li> <li>• Measurement of Waste</li> <li>• Product identification / classification</li> <li>• On-site destruction</li> <li>• Containerisation / Skip Hire</li> <li>• Provision of training and promotion of best practices, including publicity materials</li> </ul>

## Existing Recycling and Recovery Agreements and Arrangements

- A free of charge collection service for Lamps and Tubes exists through the Electrical Sundries Framework
- Many companies offer a free of charge collection service for redundant batteries. This is included under the Electronic Components Framework
- The collection and recycling or safe disposal of winchesters, mausers and other chemical containers and packaging including branded cardboard is offered through most of the Lab supply frameworks
- The collection and disposal of computer hardware, including display equipment, is available through CDL
- The collection of clinical waste from sanitary bins is provided under the Hygiene Services Framework

# Schedule C – Chemical Waste

<b>Waste Elements and Materials including but not limited to:</b>	<b>Associated Added Value Services</b> (provided as indicative requirements)
<ul style="list-style-type: none"><li>•Laboratory Chemicals (Toxic &amp; Non-toxic)<ul style="list-style-type: none"><li>○ Chemicals (flammable &amp; non-flammable)</li><li>○ Items contaminated by Chemicals Miscellaneous Laboratory Waste</li></ul></li><li>•Janitorial and Estates Chemicals<ul style="list-style-type: none"><li>○ Paint</li><li>○ Cleaning Liquids</li><li>○ Disinfectants</li><li>○ Solvents</li></ul></li><li>•Compressed Gasses<ul style="list-style-type: none"><li>○ Hazardous</li><li>○ Non-hazardous</li></ul></li><li>•Non Edible Oil<ul style="list-style-type: none"><li>○ Spent Oils</li><li>○ Oil contaminated materials</li></ul></li><li>•Professional Services<ul style="list-style-type: none"><li>○ Substance &amp; material identification / classification</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Waste Audits</li><li>• Measurement of Waste</li><li>• Product identification / classification</li><li>• On-site destruction</li><li>• Provision of portable containers</li><li>• Containerisation / Skip Hire</li><li>• Provision of training and promotion of best practices, including publicity materials</li></ul>

# Schedule D – Clinical and Biological Waste

<b>Waste Elements and Materials including but not limited to:</b>	<b>Associated Added Value Services</b> (provided as indicative requirements)
<ul style="list-style-type: none"><li>• Human tissue</li><li>• Human body fluids &amp; excreta</li><li>• Material or items contaminated with human tissue or body fluids/excreta (e.g. swabs, tissues, gloves etc) that is offensive or hazardous</li><li>• Animal carcasses, parts/tissue that are Animal By-Products (Animal By-Products (Scotland) Regulations 2003 (as amended))</li><li>• Animal carcasses, parts/tissue that are not Animal By-Products (Animal By-Products (Scotland) Regulations 2003 (as amended))</li><li>• Material or items contaminated with animal tissue or other materials (including Animal By-Products)</li><li>• Material or items contaminated with animal body fluids/excreta (e.g. swabs, gloves etc) that is offensive or hazardous.</li><li>• Contaminated animal bedding that is Special waste</li><li>• Sharps</li><li>• Medical Waste</li><li>• Laboratory culture waste</li><li>• HEPA filters (e.g. from laminar flow cabinets and ventilation systems)</li><li>• Pharmaceuticals and Controlled drugs</li><li>• Items contaminated by pharmaceuticals and controlled drugs</li><li>• Soil samples contaminated with hazardous biological material</li><li>• miscellaneous biological waste</li></ul>	<ul style="list-style-type: none"><li>• Waste Audits</li><li>• Measurement of Waste</li><li>• Product identification / classification</li><li>• Provision of portable Containers</li><li>• Provision of training and promotion of best practices, including publicity materials</li></ul>

# Schedule E – Radioactive Waste and Materials

<b>Waste Elements and Materials including but not limited to:</b>	<b>Associated Added Value Services</b> (provided as indicative requirements)
<ul style="list-style-type: none"><li>• Radioactive Waste<ul style="list-style-type: none"><li>○ Radio Chemicals</li><li>○ Contaminated materials</li><li>○ Sharps</li></ul></li><li>• Professional Services</li><li>• Substance &amp; material identification / classification</li></ul>	<ul style="list-style-type: none"><li>• Waste Audits</li><li>• Measurement of Waste</li><li>• Provision of portable Containers</li><li>• Provision of training and promotion of best practices, including publicity materials</li></ul>

# Geographical Lotting

Region	Region Ref No.	Map Ref	Institution	Region	Region Ref No.	Map Ref	Institution		
Highlands & Morayshire	1	FE37	Inverness College	Greater Glasgow	8	FE 9	Cardonald College		
		FE 38	Moray College			FE 23	Clydebank College		
		FE 41	North Highland College			FE 13	Coatbridge College		
		HE21	UHI Millennium Institute			FE 25	Cumbernauld College		
Islands	2	FE 40	Lews Castle College			FE 27	James Watt College	FE 10	John Wheatley College
		FE 35	Sabhal Mor Ostaig			FE 6	Motherwell College		
Aberdeen & Grampian Highlands	3	HE 19	Robert Gordon University			FE 19	North Glasgow College	FE 12	Reid Kerr College
		HE 20	University of Aberdeen			FE 7	South Lanarkshire College		
		FE 36	Aberdeen College			FE 15	City of Glasgow College formerly Central College		
Perth, Angus, Dundee	4	HE 17	University of Dundee			HE5	Glasgow Caledonian University	FE 11	City of Glasgow College formerly Glasgow College of Nautical Studies
		FE 34	Angus College			FE 14	City of Glasgow College formerly Glasgow Metropolitan College		
		FE 33	Dundee College			HE 6	Glasgow School of Art		
		FE 32	Perth College	FE 20	Annie'sland College				
		FE 30	Adam Smith College	FE 8	Langside College				
Fife	5	FE 29	Carnegie College	Glasgow City	9	HE 7	RSAMD		
		FE 31	Elmwood College			FE 17	Stow College		
		HE 16	University of St Andrews			HE 8	University of Glasgow		
		HE 11	Edinburgh College of Art			HE 4	University of Strathclyde		
Edinburgh & Lothians	6	HE 10	Edinburgh Napier University			West of Scotland	10	FE 3	Ayr College
		FE 26	Edinburghs Telford College					FE 5	Kilmarnock College
		HE 9	Heriot Watt University					HE 1	University of West of Scotland
		FE 18	Jewel and Esk College					HE 3	University of West of Scotland
		FE 16	Newbattle Abbey College			South Scotland	11	FE 2	Barony College
		HE 14	Queen Margaret University					FE 4	Borders College
		HE 20	Scottish Agricultural College					FE 1	Dumfries & Galloway College
		FE 22	Stevenson College					FE 1	University of Glasgow - Crighton Campus
		HE 12	University of Edinburgh	FE 1	University of West of Scotland - Crighton Campus				
		FE 24	Oatridge College	FE 42	Orkney College				
FE 21	West Lothian College	Out of Scope	N/A	FE 43	Shetland College				
FE 28	Forth Valley College								
HE 15	University of Stirling								
Stirlingshire	7								

# ITT Considerations - Statement of Requirements (SoR)

- **Service Delivery**

- maximum call-out response times for different waste streams
- Set Standard Working Hours - Monday – Friday 8am – 6pm with ability to provide services on Saturday, Sunday and Public Holidays
- Duty of Care requirements – compliance with relevant standards and regulations, Provision of all relevant transfer and consignment notes for different waste elements, behaviour on site, etc.
- Adherence to and promotion of practices to comply with and meet targets from **Climate Change (Scotland) Act 2009 and zero waste initiative.**

- **Added Value Services**

- Reduction of disposal to Landfill
- Promotion of Recycling initiatives
- Stakeholder education

- **Account Management**

- Contractor's Approach to managing the contract, Complaints resolution, etc

- **Reporting & MI**

- Management Information requirements - Breakdown of waste and Materials per site
- Compliance with SEPA and Zero Waste Scotland requirements

- **Geographical Coverage:**

- Ability to service all institutions in each geographical lot applied for.

- **Staffing & Training**

- Resources and Training Promotion of Staff training and development to ensure all changes in legislation and best practice are adhered to.

- **Sustainability & Corporate Social Responsibility**

- Health & safety records and policy, Environmental policies and procedures, etc

# Mini-competition Criteria

Award Criteria:  
award criteria is based on **MEAT**

Price Quality Ratio: *Price / Quality*

Weighting Criteria: Variable

## • Price

Service costs and additional charges

## • Quality

- Service
- Account Management
- Resources
  - (including site visits to supplier's and third party's facilities if requested)
- Sustainability

**Variable%**

**Variable%**

Variable%

Variable%

Variable%

Variable%

# Project Plan – Waste Management Services (BA-EFM009)

<b>Milestone</b>	<b>Date</b>
Commodity Profile approved	<b>11/10/10</b>
Strategy approved	<b>24/01/11</b>
Draft ITT Finalised and approved	<b>07/04/11</b>
ITT Issued	<b>11/04/11</b>
<i>Bidders Conferences</i>	<i>May 2011</i>
ITTs Returned	<b>31/05/11</b>
ITT Evaluated	<b>Ongoing</b>
Award of Contract	<b>July 2011</b>
Contract Go Live	<b>Aug 2011</b>



# Question?

Contact details:

Andy Anderson

[aanderson@apuc-scot.ac.uk](mailto:aanderson@apuc-scot.ac.uk)

0131 442 8932