

# Regulations & Opportunities...



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# Introducing Resource Efficient Scotland

# Global Demand – Energy & Raw Materials

- Demand for materials accelerating at an alarming rate - 300% increase predicted by 2050 (Defra 2011)
- Virgin raw materials are running out
- Costs are increasing above-inflation across ALL resource groups:  
Energy, Food, Materials



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# The way we think about and manage resources is changing



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- EU level : Revision of the Waste Framework Directive
- Scottish Government ambition to drive change
- National Level : Zero Waste Plan & Climate Change Bill

## Essential to secure Scotland's economic future as well as delivering environmental benefits

*"Zero Waste means reducing the unnecessary use of raw materials; re-using products where possible and recovering value from products when they reach the end of their lives either through recycling, composting or energy recovery"*

Scottish Government (2008)



**Zero Waste Plan - At least 70% of all materials recycled by 2025**

# Resource Efficient Scotland

- Single integrated Scottish Government programme
- Energy, water, raw materials and waste
- Three main delivery routes
  - Advice and Support Service
  - Sector programmes
  - Strategic interventions – circular economy



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# Advice and Support Service

- Scotland-wide one stop shop
- Staffed by expert advisers
- Range of support relevant to need:
  - Phone and web advice
  - Tools and resources
  - Training
  - Access to finance & business case support
  - Site visits
  - Focus on implementation to realise cost & environmental savings

[www.resourceefficientscotland.com](http://www.resourceefficientscotland.com)

0808 808 2268 @ResourceScot



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# The Waste (Scotland) Regulations 2012

# Key Facts

- Scotland spends over £100 Million every year throwing away recyclable materials
- Cost of managing materials 'inefficiently' is increasing as landfill tax increases year on year - (Apr 2013 = £72 tax alone)
- Processing food waste through modern treatment facilities has the potential to generate enough energy to power a city the size of Inverness



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# Waste (Scotland) Regulations 2012



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- Source segregation & separate collection of key recyclable materials – paper, card, glass, metals, recyclable plastic and food waste by 1<sup>st</sup> January 2014
- Ban the disposal of macerated food waste to the sewer network in non rural areas by 1<sup>st</sup> January 2016
- Ban the mixing of separately collected materials.
- Ban the landfilling & incineration of separately collected materials.
- Restrict the inputs to thermal treatment facilities to extract recyclate value from residual waste stream
- Ban residual municipal biodegradable waste from landfill (2021)

# Food Waste Regulations



- Q) Does my business handle food (e.g processing, distribution, preparation or sale)
- Q) Is my business **non rural**?  
[www.zerowastescotland.org.uk/regulationsfaq](http://www.zerowastescotland.org.uk/regulationsfaq)
- Q) Do we produce over 50KG of food waste per week?
  - A) Separate food waste for collection by 1st January 2014
- Q) Do we produce between 5-50KG of food waste per week?  
(also hospitals, hospices, medical facilities)
  - A) Separate food waste for collection by 1st January 2016

Ban on disposing of food waste to sewer in non rural areas (eg using waste disposal units at sinks)



# Rough Guide to 50kg



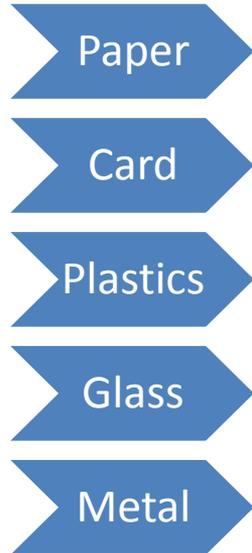
- 50KG of food waste = roughly 100 litre
- Household Waste Bin = 240l
- This (middle bin) is 140 litres holds around 60kg of food waste
- Kitchen Caddy is 10 litres holds around 5kg of food waste



# Dry Recyclables

**By 1<sup>st</sup> January 2014;** as a waste producer you are required to:

- As a legal minimum present the following materials for separate collection
- Present materials for “High Quality” recycling
- Maintain the quality of recycling while in your care



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Residual  
Waste

**NO KEY**  
RECYCLABLES

# Co-mingling dry recyclables?



- Full separation is prioritised to ensure **'Quality'** and **'Quantity'** is not compromised
- Initially, there will be times when this is not practicable, feasible or available;
- Key things to focus on:
  - Speak to your waste contractor for guidance
  - Do not mix recyclable and non-recyclable waste
    - Do not mix paper and glass
    - Label bins clearly
    - Train staff – and cleaning staff!
    - Ensure quality & quantity of recycling is not compromised

See Duty of Care : A Code of Practice for further information

[www.scotland.gov.uk/Resource/0040/00404095.pdf](http://www.scotland.gov.uk/Resource/0040/00404095.pdf)



# Overcoming Barriers



**Barrier:** *Staff won't recycle*

**Solution:** *Remove bins from desks and create recycle banks, awareness raising, engage staff with the 'why' are we doing this*



**Barrier:** *Storage Space (inside)*

**Solution:** *Smaller / stackable bins*



**Barrier:** *Storage Space (outside)*

**Solution:** *Share waste and recycling services with other businesses*



**Barrier:** *Despite best efforts – customers / visitors don't recycle properly (or at all)*

**Solution:** *Communication, Recycling on the Go*

[www.zerowastescotland.org.uk/recycleonthego](http://www.zerowastescotland.org.uk/recycleonthego)

# Tools & Guidance



## Questions?

- FAQs Database & Rural Postcode finder  
[www.zerowastescotland.org.uk/regulationsfaqs](http://www.zerowastescotland.org.uk/regulationsfaqs)
- Zero Waste Scotland Helpline - 0808 100 2040

## Help your staff know what goes where

- Online poster creator helps you to produce bin signage  
and create posters with motivating environmentally positive messaging

## Find the best route for your waste

- Business Recycling & Reuse Directory  
<http://brrd.zerowastescotland.org.uk/>
- Construction Material Exchange  
<http://cme.zerowastescotland.org.uk/home>





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# Support with Waste Reduction Initiatives

# Quick Wins - Cutting Costs



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## 7 steps to cutting your current waste disposal charges

1. Where is the waste coming from? - **MEASURE**
2. **Start your waste reduction initiative - AVOID**
3. Check your waste data (regularly) - **MONITOR**
4. What is your current contract and how much is it costing?
5. Does the amount you need collected actually match what you are paying for?
6. Identify the value of the recyclate  
(<http://www.mrw.co.uk/8634595.article>)
7. Renegotiate to a lower price (more flexible?) contract



# Reducing Your Waste...



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## Over Ordering....

Are you ordering more than you need?  
Do you need it at all? Can you lease, hire  
or refurbish items instead of buying new?



## Examine your Supply Chain....

How do supplies enter your business - Excess  
packaging? Can suppliers take back packaging?  
How recyclable are the materials themselves?  
Talk to your supplier!



## One persons waste...

Is another's treasure! Think about furniture; IT  
equipment; Textiles (uniforms, bed linen); Food  
(homeless charities); Look out for waste exchanges

# Make your catering or waste contracts more resource efficient

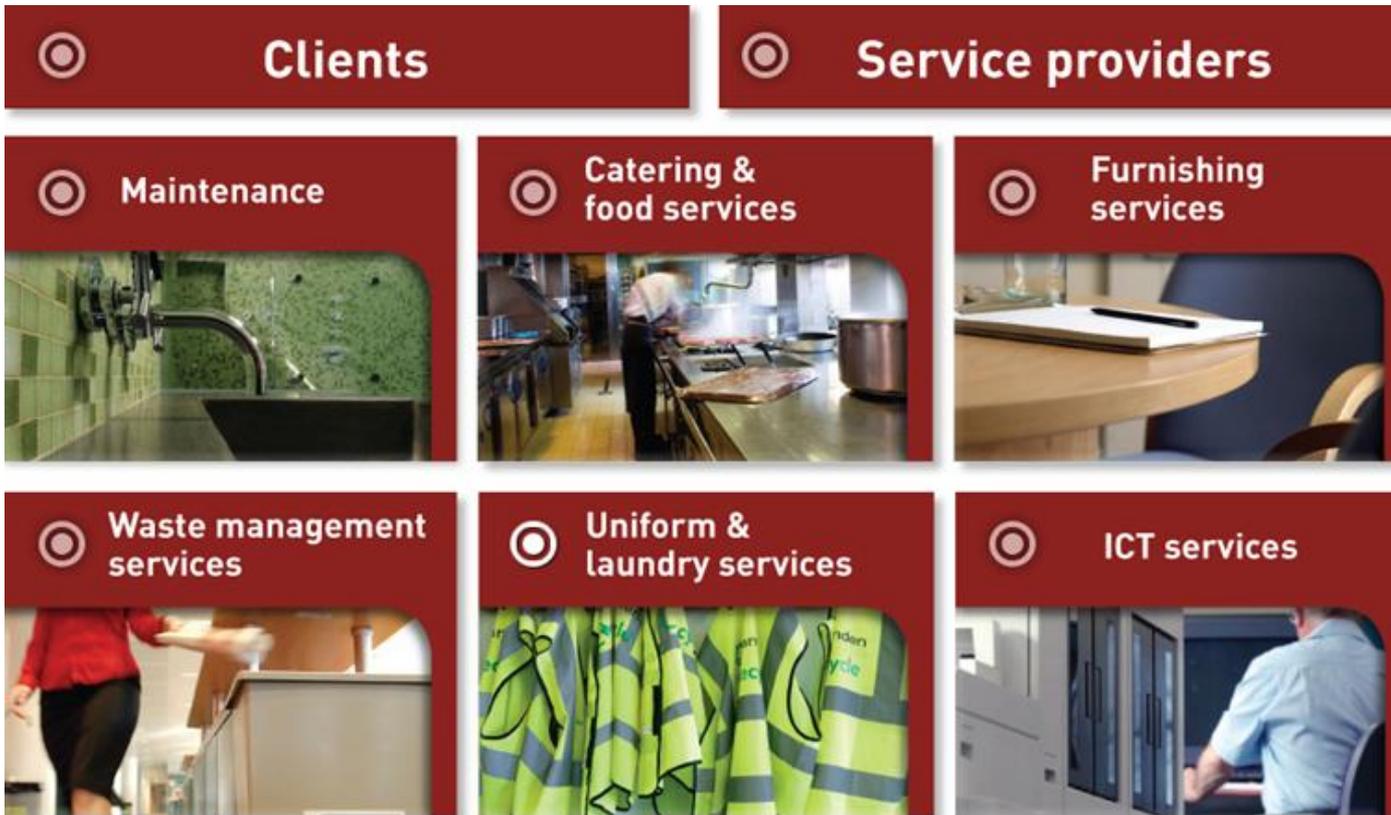


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Model wording for:

- ✓ Service briefs
- ✓ PQQs
- ✓ ITTs
- ✓ Contracts
- ✓ Client and supplier



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<http://www.zerowastescotland.org.uk/content/fm-client-procurement-toolkit-0>

<http://www.zerowastescotland.org.uk/content/clients-4>

<http://www.zerowastescotland.org.uk/content/service-providers-2>



# Catering and Food Services Planning and Monitoring Toolkit

- ❖ MS Excel toolkit
- ❖ Compliments and supports model wording guidance
- ❖ Facilitates target setting and monitoring
- ❖ Tracks, trends and targets against KPI's
- ❖ Includes actions taken by contractor to reduce waste

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Working together for a world without waste

## RESOURCE EFFICIENCY PLANNING AND MONITORING TOOLKIT

CATERING AND FOOD SERVICES June 2012

Version 5.1

**Basic Details**

Client name:	XYZ NHS Trust
Project title:	ABC Hospital
Project Reference:	ABC001
Project location:	London
Project postcode:	W1C 8AG
FM Contractor:	A&B&C Limited
Service Area:	Catering and food services
Service Contractor:	FoodCo
Contract duration (years):	5
Commencement date:	01/01/2012
Contract value (per annum):	1,500,000

**Metrics**

Please select metrics applicable to your project. These metrics are those used to track your progress. Full does not select appropriate metrics below (Additional metrics may be added to the list on the 'Settings' tab).

Metric	Amount	Unit
Occupants	5,000	FTE
Employees	400	employees
Beds	120	beds

**Total Catering Waste**

**Monthly Trend in Catering Waste**

**Waste Hierarchy Targets and Trends**

Improvement against Baseline	Baseline		Trend This Month
	Target	Projected	
Prevention	5.5%	4.8%	↓
Re-Use	28.4%	31.1%	↑
Recycling	28.9%	23.3%	↓
Recovery	19.2%	24.1%	↑
Disposal	2.2%	17.4%	↓

**Summary of KPIs to date**

Keep to traffic lights:

# Unilever Food Solutions

Commercial Kitchen: Hover over a hotspot to learn more!



How to save money through preventing food and packaging waste

<http://www.unileverfoodsolutions.co.uk/our-services/your-kitchen/wiseuponfoodwaste/tools>



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# Further Information



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**For further information on the regulations contact:**

[www.zerowastescotland.org.uk](http://www.zerowastescotland.org.uk) / 0808 100 2040

[www.sepa.org.uk](http://www.sepa.org.uk) / [Eleanor.Strain@sepa.org.uk](mailto:Eleanor.Strain@sepa.org.uk) / 01786 457763

**For further information on Public Sector support contact:**

[Warren.McIntyre@resourceefficientscotland.com](mailto:Warren.McIntyre@resourceefficientscotland.com)

[www.resourceefficientscotland.com](http://www.resourceefficientscotland.com)

0808 808 2268 @ResourceScot

For support with upcoming catering & waste management contracts

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