



Trimming the Wasteline
**Food Waste in the
Hospitality Sector**

Global headlines



Globally
1/3 of food
produced is wasted



If food waste was a
country it would be the
3rd largest
greenhouse gas emitter



Food waste is responsible for
170,343,530,280,000
litres of wasted water

UK headlines

Food waste is responsible for:



10 Million

tonnes / year of
wasted food



£18 Billion

Cost



20,000,000

tonnes



6.2 Billion

litres of wasted water

UK Hospitality headlines

Food waste is responsible for:



10 Million

tonnes / year of
wasted food



£2.9 Billion

meals



74%

could have
been eaten

The real cost of food waste: every day examples

White Medium Bread



£0.60 per loaf

£0.75/kg

£750/tonne

Semi-Skimmed Milk



£1.50 per bottle

£0.66/litre

£660/tonne

Salted Butter



£1.50 per pack

£6.00/kg

£6,000/tonne

Braeburn Apples



£0.44 each

£2.20/kg

£2,200/tonne

Whole Chicken



£4.00 per chicken

£2.29/kg

£2,290/tonne

White Potatoes



£2.00 per bag

£0.80/kg

£800/tonne

Long Grain Rice



£2.25 per bag

£1.13/kg

£1,130/tonne

The real cost of food waste

Cost of 1t of Hospitality food waste



Where food waste comes from:



21%



45%

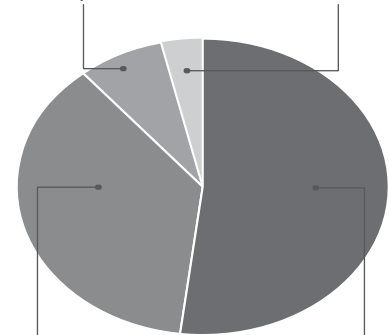


34%

Cost incurred:

7.5%
utilities (energy, water
& transport)

35%
disposal



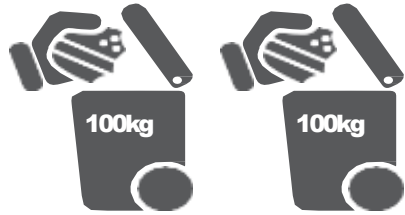
37%

labour

52%

purchasing

Doing the Maths



Per Week	=	200kg	=	£560
Per Month	=	870kg	=	£2,240
Per Year	=	10.4t	=	£29,120
Per Week	=	1t	=	£2,800
Per Month	=	4.3t	=	£11,200
Per Year	=	52t	=	£145,600

The future of food waste



2023

Food waste options: General waste

Just 12% of food waste in the hospitality sector is recycled **General Waste bins:**
hide waste | hide cost | unsustainable

Landfill



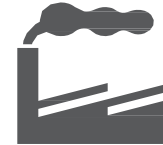
UK landfill methane is responsible for: 12m tonnes CO₂e /year
2.5% of overall UK emissions

Leachate impacts watercourses

£107 / tonne (including landfill tax)

Banned in Scotland

Incineration



UK incineration capacity:
Handles 14m tonne generating
0.3m tonne CO₂e /year

Few air pollution issues

No major health implications

£83 /tonne

Food waste options: On-site disposal

Fats, Oil and Grease costs water industry £100m / year

370,000 blocked sewer incidents every year in UK | 80% caused by FOG, food waste & unflushables

Macerator



42% healthcare food waste macerated

Waste water = 4m tonnes CO₂e/year

Macerators are not 'free' disposal
= £18.44 / day or £6730 / year*
+ maintenance = blockages + floods
*£18 / day water (@151 minutes) + 44p / day electricity

Banned in Scotland

Water



Capital cost c£10k

2m² space required

Up to 600l / day water required

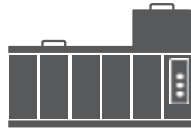
Requires 50°C water 24/7

Sustainable?

Food waste options: On-site processing

On site solutions: Fixed Capacity | Space | Labour | Regulations / Permits

Dryer



Capital cost £10k to £40k

£5 to £10 / day energy costs

Up to 80% volume reduction

Outlet for waste

Composter



Capital cost £10k to £40k

Specific mix e.g. buy woodchip

Energy requirement

Outlet for waste

Food waste options: Food collection

Anaerobic Digestion



4% healthcare food waste

Gate fees = £29 / tonne 85%

biofertiliser for agriculture

15% energy (biofuel)

Generated by AD

Closed loop solution

Industrial Compost



No methane capture

Gate fees = £46 / tonne Limited

commercial collections Compost as;

soil enhancer, land

remediation, agriculture

5 step plan to tackle food waste



Take (back)
ownership of
food waste

1

2

Getting
stakeholders
on board



Separate collection -
value food most, value
food waste more

3

4

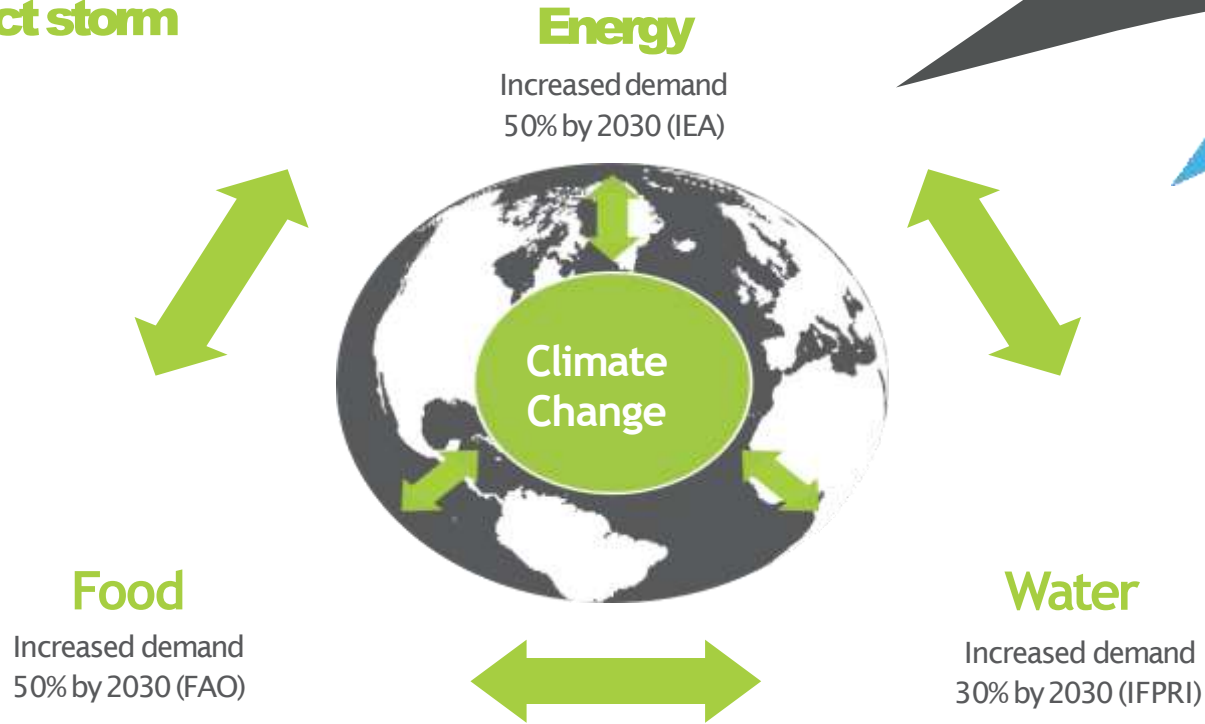
Measuring as
a means to
managing



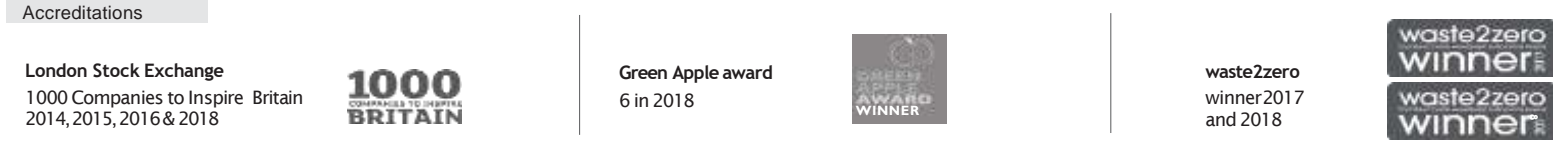
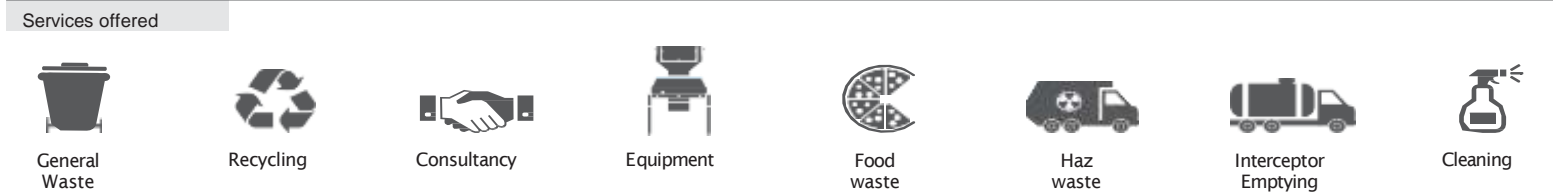
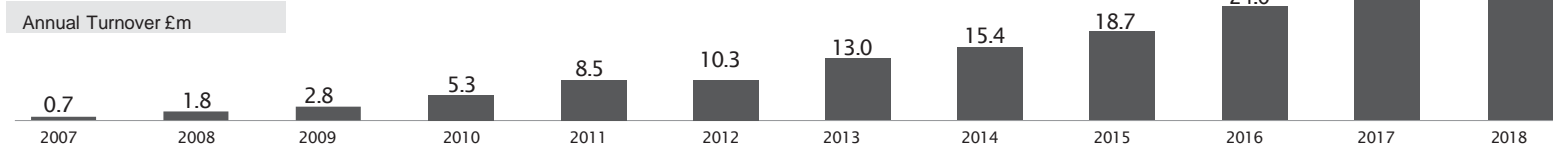
Targets -
be bold

5

A perfect storm



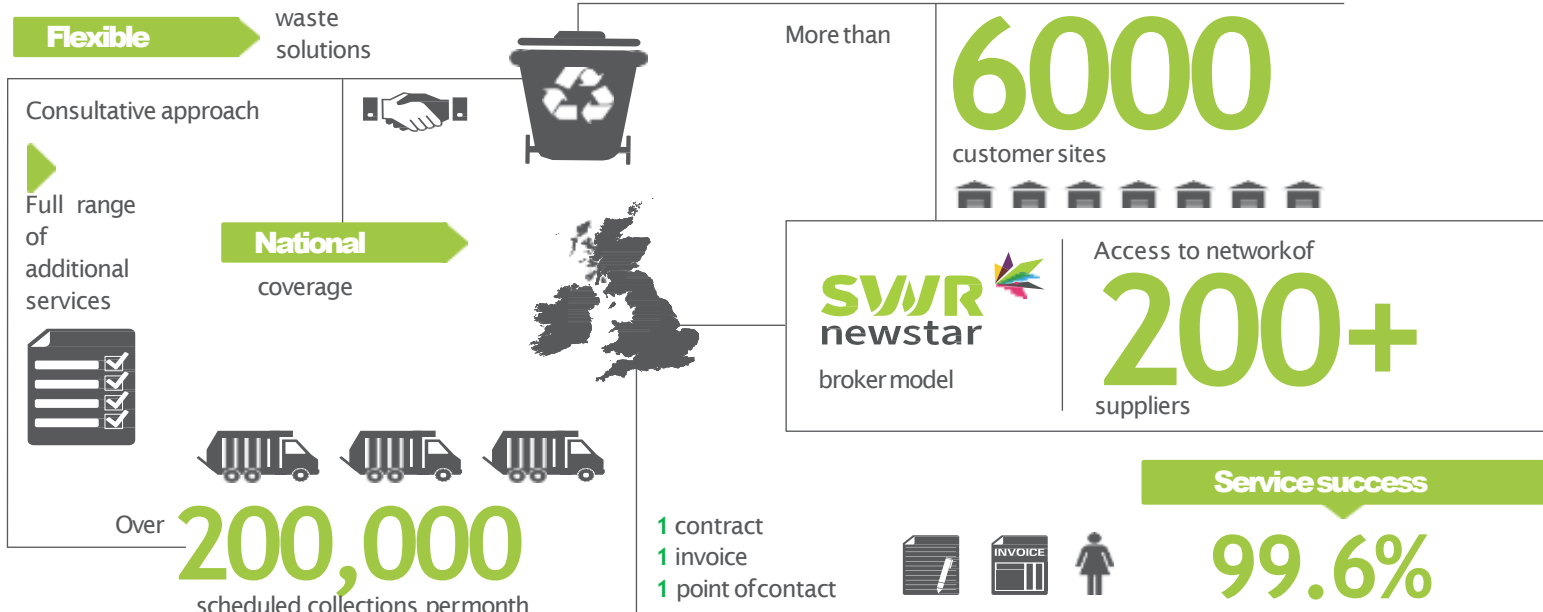
Introducing Us



For more information please contact Dean Pearce

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A bit more information



Costs. **Out**

Lid. **Lifted**

Waste. **Managed**

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