



Waste Management: what is it good for?



1 plastic bottle would
save enough energy to
power a 60 watt light
bulb for 3 hrs



Welcome

- History
- What we are aiming to achieve
- Why should the University recycle
- What can be recycled or reused
- How do we get our message across
- Implementation
- Mechanical Recovery Facility (MRF)
- Anaerobic Digestion (AD)
- Management information
- Information and help



History

- Current situation
- Recycling
- Cost





What we are aiming to achieve

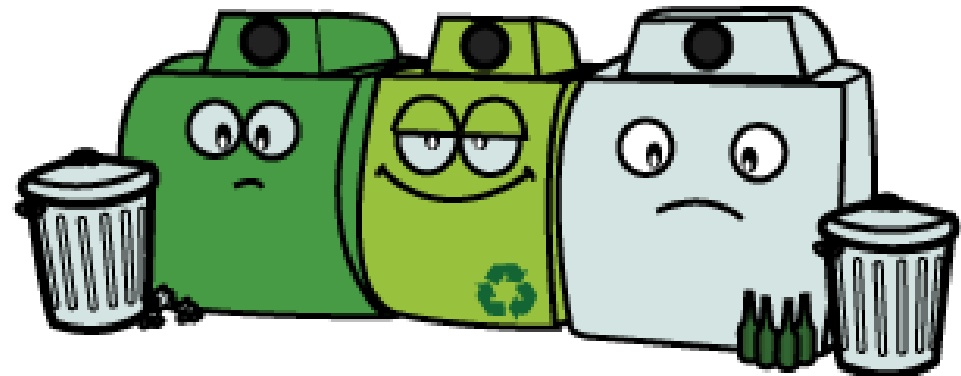
- Zero Landfill by 2020 – achieved in 2016
- Increase recycling/reuse to 95% by end of 2016 across the University
- Simplify the recycling service by having one contractor for all waste streams
- Financial – reduce costs
- Live management information

If all cans in the UK were recycled, we would need 14 million fewer dustbins.



Why should the University recycle

- Reduce pollution and conserving natural resources
- Save energy on raw materials
- Reduce greenhouse gases
- Environment
- Cost— new contract is estimated to save 23% on current costs





What can be recycled or reused

- Cardboard, office papers, newspapers, magazines, phone books, junk mail, plastic bottles, cans, bottles, glass
- Food waste produces gases for energy as it passes through the anaerobic digestion system
- Electrical waste (WEEE), fluorescent tubes, batteries, printer cartridges, pallets and green waste
- General waste where recyclables are recovered after passing through a mechanical recovery facility (MRF)
- Residue waste is used as Fuel for energy and the ash from this is used in concrete production

GENERAL WASTE



MICK GEORGE 
www.mickgeorge.co.uk

For further information please visit www.environment.admin.cam.ac.uk/recycling

MIXED RECYCLING



MICK GEORGE 
www.mickgeorge.co.uk

For further information please visit www.environment.admin.cam.ac.uk/recycling

FOOD WASTE



MICK GEORGE 
www.mickgeorge.co.uk

For further information please visit www.environment.admin.cam.ac.uk/recycling

Recycled paper produces
73% less air pollution
than if it was made from
raw materials



How do we get our message across

- Road shows across the Estate including during 'Spotlight on Waste month' in August 2016
- Lunchtime talks
- Clear graphic signage on each bin both internal and external (see previous slide or [download](#))
- Internal Departmental meetings – [contact us](#) for materials.
- [Waste and recycling website](#)
- Case studies on how different people work within the system
- In-House promotions to be introduced at a later date
- Site visits to recycling centres



Implementation in partnership with Mick George Limited

- Starting across the Estate on the 1st July 2016
- 3 months bedding in period, as we evaluate the management information and agree the way forward
- By end of 2016 the scheme will be fully operational and running throughout Cambridge University

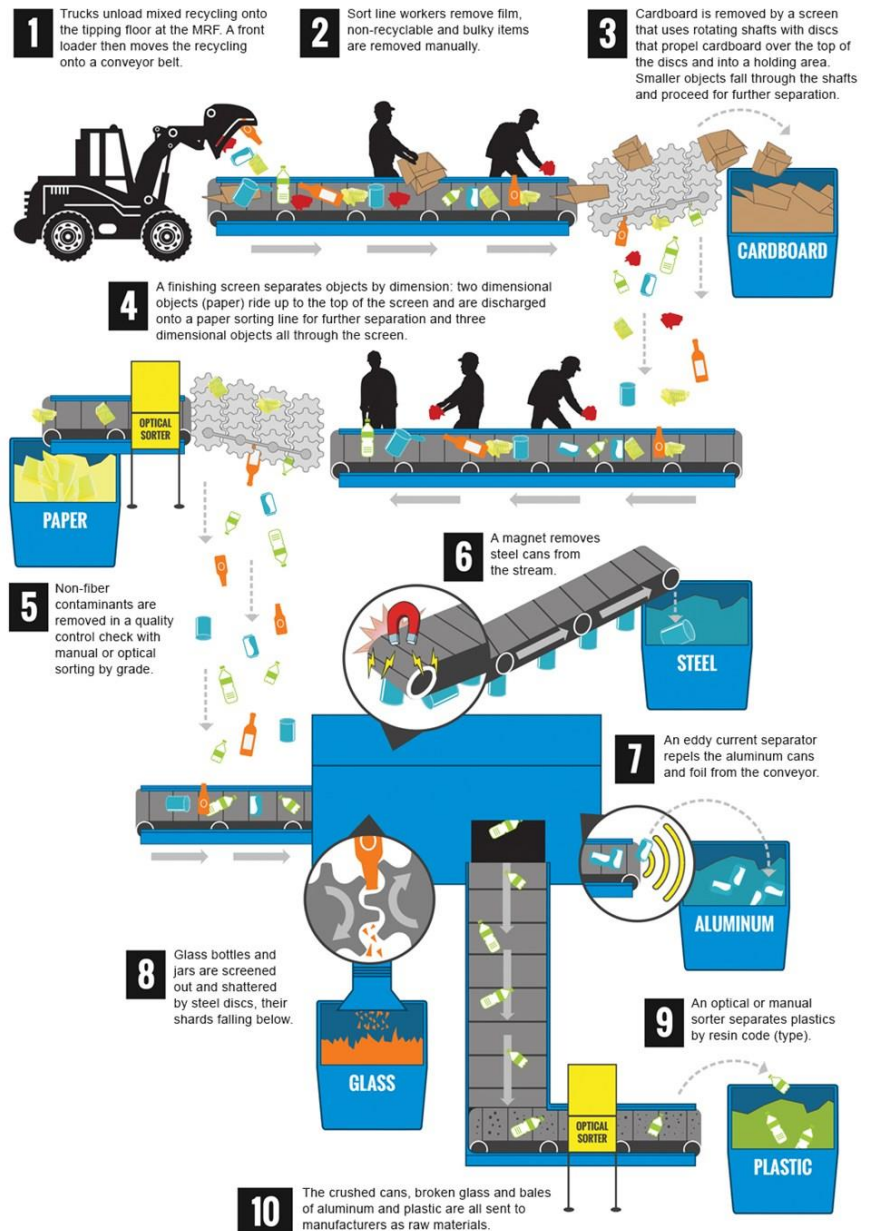
Mechanical Recovery Facility (MRF)

Residue waste will be used as fuel in a waste to energy plant. Energy recovery is an excellent use of many waste streams that cannot be recycled. It can contribute secure, renewable energy to UK demands. It is calculated to grow to between 3.1TKh and 3.6TKh by 2020*

3.6 terawatt hours = 3600000000 kilowatt hours

Enough to power 78,260
3 bedroom houses for a year

*Government Review of waste policy in England 2011

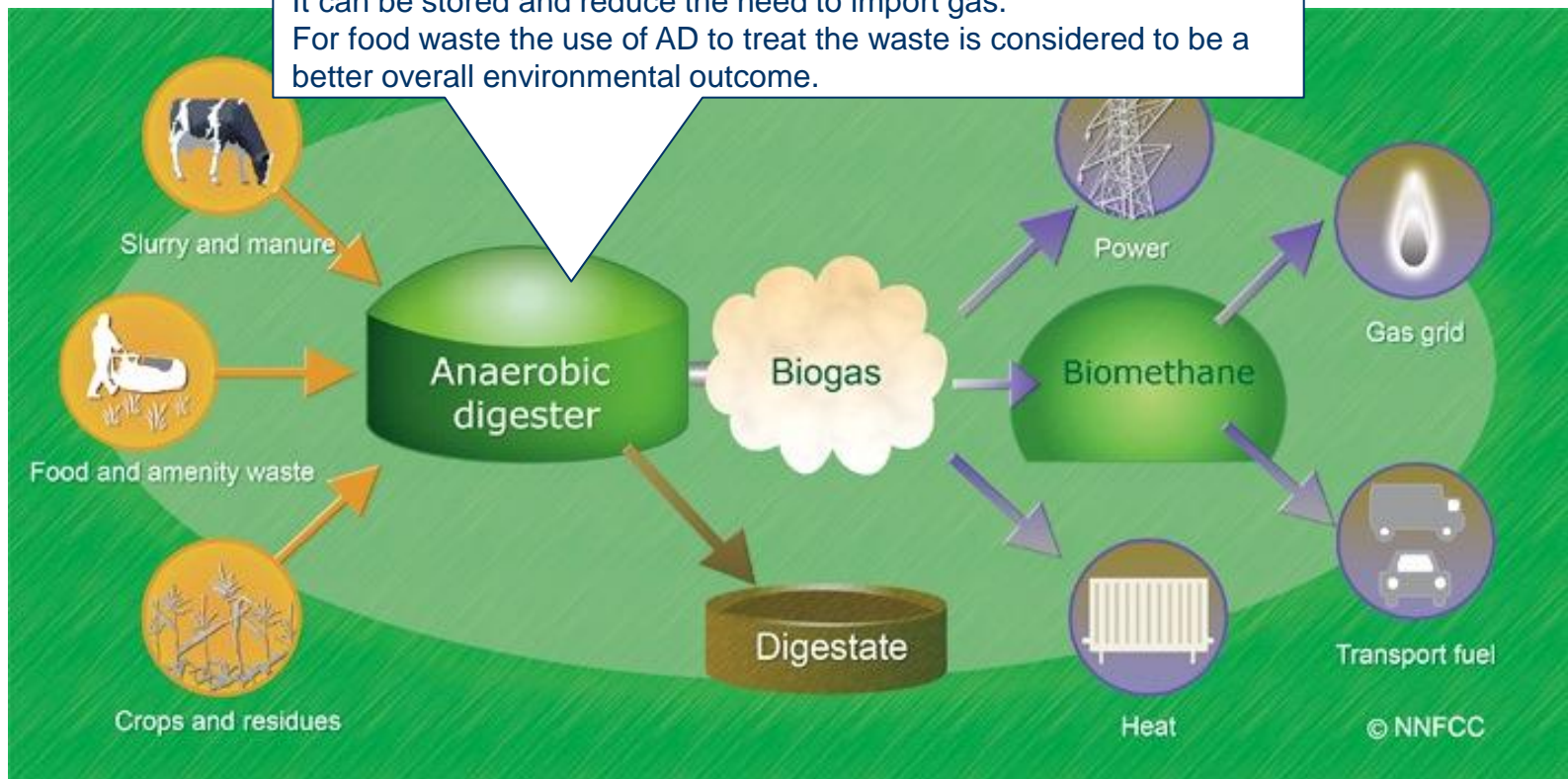


Food waste is a major issue. Food is a valuable resource and yet in the UK about 15 million tonnes of food is thrown away every year



Anaerobic Digestion (AD)

AD produces Constant renewable energy unlike Solar or Wind. It can be stored and reduce the need to import gas. For food waste the use of AD to treat the waste is considered to be a better overall environmental outcome.





Information and help

- Helpdesk contacts – FM Office 65006
- Facilities Management – facman@admin.cam.ac.uk
- University Helpdesk – helpdesk@admin.cam.ac.uk
- Environment and Energy Section -
Environment@admin.cam.ac.uk
- Link to this presentation and marketing material for Departments will be available, plus constantly updated information and FAQs at
<http://www.environment.admin.cam.ac.uk/recycling>
- Thanks for listening
- Any questions