

wasteline

ISSUE 7 SUMMER 2011



INSIDE:

'WEEE' Steps in the Right Direction

WASTE 'Gathering'

No 'Wasted' Journeys for Noel

arc21

CEO FOREWORD



John Quinn

The good news for everyone involved in waste management in Northern Ireland is that recycling / composting rates keep going in the right direction.

Recent statistics show that during July - September last year, the rate rose by a further 2.5% on the previous year - bringing the overall composting / recycling rate to an impressive 42%. The flipside of improving recycling rates is decreasing amounts of waste going to landfill - down another 4%. That's encouraging progress for both the environment and for ratepayers who ultimately have to bear the ever increasing costs of landfill.

Such has been the progress on recycling in recent years that people now talk realistically about creating a 'zero-waste' economy and in this edition we look at how business believes that valuing waste properly can deliver major benefits for society.

We also take a look at some initiatives being undertaken by arc21's constituent Councils and the good work being done by our educational vehicle, the Waste Buster. Let's keep up the good work and keep heading towards that all-important EU recycling target of 50% by 2020.

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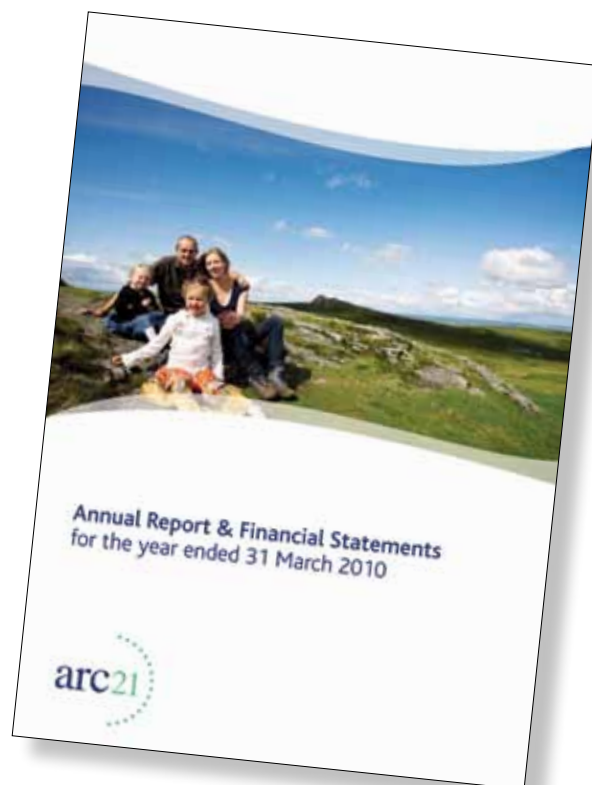
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PRINTED ON RECYCLED PAPER

arc21 2010 ANNUAL REPORT

arc21's 2010 Annual Report is now available to download from www.arc21.gov.uk Highlights from the year included good progress on a variety of recycling and landfill targets which saved arc21's constituent Councils (and ratepayers) £4m over the year. New initiatives such as the collection of kitchen waste and new approaches to collecting glass helped push recycling rates to record levels.



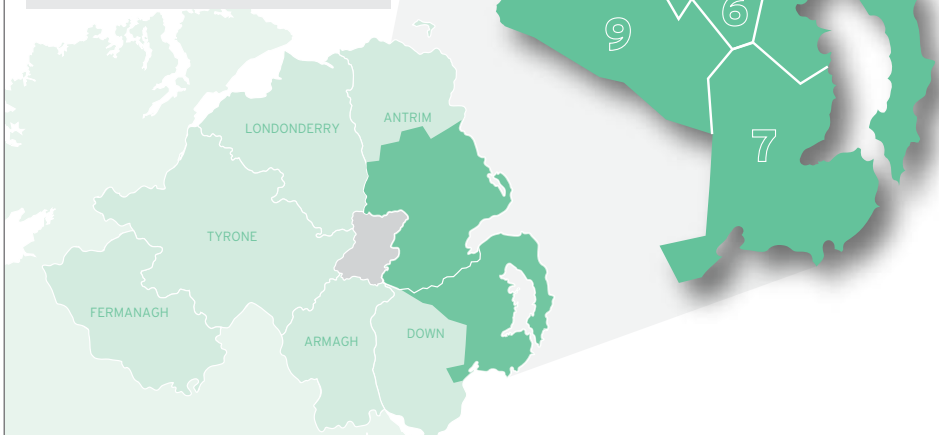
The report also details arc21's operations, financial performance and corporate structures which are designed to deliver value-for-money and best practice for the delivery of Local Government services on a collective basis.

arc21

THE ARC21 AREA

arc21 Councils

1. Antrim Borough Council
2. Ards Borough Council
3. Ballymena Borough Council
4. Belfast City Council
5. Carrickfergus Borough Council
6. Castlereagh Borough Council
7. Down District Council
8. Larne Borough Council
9. Lisburn City Council
10. Newtownabbey Borough Council
11. North Down Borough Council





RECYCLING EFFORTS NOT WASTED

Northern Ireland's recycling effort is continuing to deliver results according to the latest waste management statistics published by the Department of the Environment.

The figures - relating to July to September last year - show that recycling / composting rates for household waste now stand at 42%, up 2.5% from the same quarter in 2009. Another key statistic, measuring the amount of municipal waste sent to landfill, also compared well to 2009, with a 4% fall being recorded.

With regard to Municipal Waste the statistics revealed that:

- A total of 261,838 tonnes of municipal waste were collected in Northern Ireland (89% household waste and 11% non-household waste).
- The percentage of the municipal waste sent for recycling and composting

was almost 40%. This is a rise of just over three percentage points from the corresponding quarter in 2009.

- The percentage of municipal waste sent to landfill was 59%. The proportion sent to landfill for this quarter was just over four percentage points lower compared to that for July to September 2009.
- Of the municipal waste collected for recycling, green waste accounted for almost half (48%), while paper accounted for one-fifth (20%). Seven per cent was made up of glass and cans.

Household waste figures demonstrated that:

- Of all household waste collected, almost 21% was sent for recycling and just over 21% was sent for composting. The overall proportion of household waste sent for recycling and composting (approximately 42%) is two and a half percentage points higher than the corresponding quarter in 2009.
- The percentage of household waste sent to landfill was just over 57%. This is a reduction of just over three percentage points on the July to September 2009 figure.
- There were 130 kilogrammes of household waste collected per head of population in Northern Ireland in this quarter (equivalent of approximately 10kg per person per week), of which 54 kilogrammes was recycled or composted.

Northern Ireland also continues to perform very well on the management of biodegradable waste. The Province has an allocation of 469,937 tonnes of biodegradable municipal waste that can be sent to landfill (2010/11).

In the period July to September 2010, only 82,980 tonnes of biodegradable waste were sent to landfill, equating to just 18% of the annual allocation. For the year-to-date, only 37% of the allocation has been used.

The Northern Ireland Landfill Allowance Scheme (NILAS) was also published recently, showing that councils have comfortably met the landfill diversion targets set for 2009/2010. During the year 383,329 tonnes were landfilled, comfortably within the 470,000 tonne target. Since 2005/06 the amount landfilled has fallen by an impressive 33%.

Welcoming the report, then Environment Minister Edwin Poots congratulated local Councils for "their achievement in not just meeting the challenging 2009/10 targets, but by exceeding them by almost 19%."

"This is an endorsement of our current strategy and steps taken by other key stakeholders; the District Councils, Waste Management Groups, but most of all the people of Northern Ireland."

BUSINESS BODY BACKS ZERO WASTE



The Confederation of British Industry (CBI) has published a new report urging Government to adopt a bold approach to waste policy. Entitled 'Ends Meet: Maximising the Value of Waste', the report highlights the benefits of moving to a zero-waste economy.

It argues that a more radical approach to waste management will deliver results across a number of policy areas, such as meeting climate change targets, improving energy security and prompting new investment in infrastructure.

The CBI believes that as well as meeting targets to cut the amount of rubbish sent to landfill, a more ambitious waste policy could provide growth opportunities for businesses by making it easier for more firms to sell their recyclable waste to other companies as a resource. It could also encourage councils to share waste and recycling facilities, creating savings – something which waste bodies such as arc21 are already delivering.

With 300 of the UK's landfill sites due to close in the next decade, around 2000 new waste management facilities need to be built by 2020, at an estimated cost of £10bn. With the waste policy review imminent, the CBI is calling for a cross-department approach from the

Government and changes to the planning regime to deliver the investment needed in waste management infrastructure.

The CBI's Deputy Director-General, Dr Neil Bentley, said:

"We risk missing a trick by not harnessing the huge potential of waste. Rather than being viewed in isolation, waste management should be seen as an important part of the green economy and our growth strategy.

"Ambitious waste policies will allow the Government to hit a broad range of its objectives from cutting emissions to bolstering energy security. We should also be encouraging councils to share recycling and waste facilities, while businesses could be incentivised to sell their recyclable waste.

"But moving to a zero-waste economy will require government departments working together and thinking outside the box. There also needs to be swift action to tackle delays in the planning system. On average it takes seven years for a waste management company to get a plant up and running, of which four are spent in the planning process. That is not the way to attract investment."

Achieving zero-waste doesn't mean that no waste is produced, but that all waste resources are fully valued, both environmentally and financially. Working towards a zero-waste economy is one of the objectives of the Coalition Government at Westminster.

Although the CBI report is primarily aimed at England, its recommendations, if adopted, could have implications for waste management in Northern Ireland. Some of the suggestions include:

- Cross-governmental cooperation
- A full audit of current regulation to ensure they deliver the best environmental and economic results
- Planning certainty to attract investment. The Government must recognise the importance of waste management facilities to local communities in its planning reforms
- Increased adoption of energy-from-waste technologies to reduce our carbon use and deliver energy security
- Improved data on commercial and industrial waste to improve policy implementation
- An incentivised approach to waste recycling that benefits small and medium-sized companies
- An integrated local policy to help different councils deliver zero waste

Welcoming the report, Ricky Burnett, arc21's Director of Policy, said:

"Central Government adopting a more holistic approach to waste management, improvements to the planning system and greater emphasis on data collection for commercial and industrial waste are all aspects that arc21 has been advocating for some time."

NO 'WASTED' JOURNEYS FOR NOEL

It's approaching three and a half years since Noel Lyons joined arc21, but the majority of his colleagues will barely have seen him at their Dargan Road offices in that time. This is no reflection on Noel's professional commitment, however, simply a result of the amount of time he spends on the road in his role as Waste Promotions Officer for the group.

Noel is responsible for the operation of arc21's education vehicle, ensuring that the 3Rs principle of 'Reduce, Reuse and Recycle' is heard by as many waste stakeholders as possible, from the classroom to the shopping centre. It is a role which Noel believes is vitally important in ensuring arc21's member councils continue to meet their various waste and recycling targets. That target is for 50% of household waste in the arc21 region to be recycled and composted by 2020.

No mean feat, but recent figures show that the 11 member councils are benefitting from a strategy focused on the 3Rs, with household recycling rates having increased from 7% in 1999 to over 30% today and the amount of waste being produced by households falling from a high of 1.4 tonnes on average per year to just 1.33. This means much less Biodegradable Municipal Waste (BMW) is ending up in land fill - 35,000 tonnes (11%) less since 2005.

Such forward strides are the net result of the work of the entire 13-strong arc21 team. As Waste Promotions Officer, Noel Lyons is an important cog in the wheel and thoroughly enjoys the awareness-raising role which he and the education vehicle play in the waste management effort.

Noel explained:

"My job, quite literally, is to take the 3Rs principle of Reduce, Reuse and Recycle to arc21's stakeholders by visiting them in the education vehicle. A lot of my time is spent in schools, but I also pay regular visits to recycling centres, community groups, town centres, leisure centres and shopping centres. The education vehicle is essentially a mobile classroom with computers and display stands which



demonstrate what materials can and can't be recycled, as well as where and how they are recycled.

"I find the work that we do with children is extremely beneficial, they are always willing to learn and participate enthusiastically in the projects we have on offer. Indeed, in many instances, children are more likely to take the recycling messages on board than adults and it will often be the case that the kids will go home and tell their parents and grandparents what they have learnt. Working closely with children in a fun, interactive and informative manner brings the topic of waste to life and makes them a lot more likely to contribute in a positive way to the waste management effort."

While the messages from the 3Rs principle form the basis of its content, the education vehicle also promotes specific waste management projects, the most recent of which was the Love Food Hate Waste campaign. Delivered by Waste and Resources Action Programme (WRAP) as part of the Department of the Environment's Rethink Waste campaign, Love Food Hate Waste provides handy tips, advice and recipes for leftover meals to help everyone waste less food.

Variation is most definitely the spice of Noel's working life. Recently he helped judge Environmental Youth Speak, an annual public speaking competition

organised by Northern Ireland's three waste management groups for primary school pupils across Northern Ireland.

Noel added:

"I spend two weeks in the year with each one of arc21's 11 councils, so as far as my schedule goes I take my lead from the councils themselves. I work closely with the council recycling officers and their knowledge of the local area is vital to the success of what I do. A great advantage of the educational vehicle is its mobility and the fact that it can reach right into the heart of a community to deliver our key messages in a classroom or shopping centre. The opportunity to interact with the community and answer questions on the spot is also important.

"When we visit recycling centres, for instance, we are able to make people aware if any of the materials they have brought are unsuitable for recycling. Awareness amongst the public is definitely on the rise, with fewer and fewer people bringing materials that are not suitable. I enjoy being able to make a difference to the waste management effort in the region and, with three and half years experience with the organisation, look forward to continuing to bring the waste management messages to the public."

REFRESH YOUR STYLE

mixed textiles
& clothes



Castlereagh Council has been running a number of events to focus on the reuse and waste minimisation of textiles. Every year people across Northern Ireland dump 25,000 tonnes of textiles with the result that almost 12% of local landfill is textile waste. Almost all of these textiles could, however, have been used again either by a charity or sent for recycling.

The council was keen to encourage people to think again about 'throw away fashion' and try instead to transform used clothing into something new and wearable.

A number of in-depth workshops were held, the first on the theme of 'Revamp', with the aim of giving people the skills necessary to customise and embellish old clothes under the guidance of an experienced seamstress. Basic repair techniques were also taught.

A second workshop was themed 'Repurpose', demonstrating how to turn old items such as jeans and jumpers into handbags and cushion covers.

A final showcase event was held at the Civic Centre which included a fair fashion market selling items such as accessories made from recycled materials, fair trade fashion and baking kits reusing old glass jars.

There was also green-style advice from a local designer and top tips on how to revamp that little black dress for the party season, as well as free makeovers and prizes to be won.

Clearly a stitch in time saves nine, but if we all started to revamp and recycle, we could help save an awful lot more.



'CADDIES' GO THE COURSE IN LARNE

The effort to recycle more glass in Larne has been boosted by the introduction of new containers which will enable householders to store glass for recycling in their blue bins.

Larne Borough Council has introduced plastic caddies, man-made containers which will rest at the top of the blue bin, leaving enough room for old newspapers, magazines, cardboard, cans, plastics and other recyclable materials to squeeze past and into the main receptacle.

The introduction of the caddies is in response to research carried out by the Council into the preferences of the local population. A survey carried out at local

household recycling centres highlighted a strong preference for caddies instead of plastic boxes - the Council's original intention was to order plastic boxes, similar to the kerbie boxes used in other boroughs.

And it is not just householders who prefer the caddies - refuse staff have said it is easier to lift the caddy from the bin than to bend down and lift a box. They also pointed out that they could wheel the bin and caddy together to the lorry.

Investment in the inner caddies is more expensive than the plastic boxes would have cost, but Larne Borough Council Director of Environmental Services, Philip Thompson, believes the investment is worthwhile and will potentially save the council over £20,000 per year revenue expenditure.



RETHINK WASTE FUND TOPS £6M

Before changing jobs, Environment Minister Edwin Poots announced a third round of funding for the Department's Rethink Waste fund which supports projects that will reduce waste to landfill through recycling or reuse activity. The additional £2m brings total funding to £6.5m.

Many arc21 councils have already accessed the fund including Antrim, North Down, Newtownabbey, Larne, Ards, Down and Lisburn. During Round 2 funding Ballymena was only one of two councils to secure funding, £200,000 for a compacter, kitchen waste caddies and a mobile recycling unit.



Speaking during a visit to the Borough by the Minister, Ald. Sam Hanna, Chair of the Council's Waste Management Sub-committee said:

"The Rethink Waste fund will enable us to expand and improve our household waste reuse and recycling services with ultimate benefit to all the ratepayers and Borough residents.

"The operational improvements brought about by this grant funding will also improve the capacity for recycling at the civic amenity site at Waveney Road."

Commenting on the additional £2m now available the Minister said:

"The fact that a third round of funding has been secured for recycling projects in the current financial climate acknowledges that waste, when handled

correctly, can be a crucial asset for the Northern Ireland economy.

"Much progress has been made in terms of recycling. This is why I am convinced that there is potential to increase recycling rates further and this funding should assist."

It is estimated that the 41 successful projects that were offered funding through Rounds one and two of the Rethink Waste fund will divert 28,500 tonnes of waste from landfill each year. This will reduce the burden on ratepayers who would otherwise meet the costs of treating this waste.

For further details on Rethink Waste, including funding opportunities, please visit: www.rethinkwasteni.org

DREAMING OF A GREEN CHRISTMAS?

Belfast's Continental Market in the grounds of City Hall is now a well established highlight of the Christmas calendar, but 2010's event was also a green record breaker.

Thanks to Belfast City Council and Marketplace Europe, last year's Christmas went green as traders helped achieve an on-site recycling rate of 46% - up 37% on 2009.

A number of environmentally-friendly practices were introduced as part of European Week for Waste Reduction, including sending food waste for composting and turning waste cooking oil into bio-diesel.

Councillor Ian Adamson, then chairman of the Council's Health & Environmental Services Committee, said:

"This is a great achievement and is testament to the hard work of council staff and the market organisers and traders. I hope we'll continue to build on this success at future markets.

"It's also a great example of how by making some small changes, we can improve our environmentally-friendly credentials. Residents too have been helping to boost Belfast's recycling rate, achieving 32% - our highest ever rate - in the last quarter."

Allan Hartwell, Director of Marketplace Europe, the company behind the continental market, said:

"We are committed to ensuring our markets consider the impact they have on the environment.

"We didn't hesitate when offered the opportunity to sign up to the European Week for Waste Reduction. Our traders wholeheartedly embraced the scheme and we are delighted to see the positive results our efforts have had.

"Being part of this initiative with Belfast City Council has changed the way we recycle for the better and we will continue with our efforts to ensure our traders are mindful of waste reduction."

So, it may still be summer, but if you want to start dreaming about a green Christmas, keep an eye out for the 2011 Continental Market!

Children from Euston Street Primary School with Robert Penney (Waste Management) and Allan Hartwell (Marketplace Europe).





RECYCLING UP IN DOWN

Down District Council has unveiled plans to turn furniture and electrical goods left at its recycling centres into hard cash.

The waste-to-cash proposal is contained in a report published back in January which suggests that unwanted household goods may attract interested buyers. There's even the prospect of opening a shop on site at the Council's recycling centre in Castlewellan.

At present many of the items being considered for reuse end up at the Council's landfill site; the report, however, believes that selling the items could actually generate a profit for ratepayers as well as providing two new jobs and reducing the amount of waste going to landfill.

Electrical goods, such as fridges, freezers and televisions would be reconditioned before going on sale.

A member of the Council's Environment Committee, Cllr. Paul Craig, said:

"The proposal would divert tonnes of waste away from the Council's landfill site. Currently all items left at our recycling centres can't be sold or even removed from the premises and go straight to the dump.

"We currently have a situation which results in perfectly good items which people no longer want in their homes being dumped and ending up in our landfill site. Refurbishing these items, diverting them from landfill and selling them to the public is a positive move."

SIGN UP FOR ECO-SCHOOLS

North Down Borough Council recently hosted an event to help promote the Eco-Schools scheme to local schools.

Eco-Schools is an international award programme that guides schools on sustainability, providing a framework to help schools put green issues into the heart of school life.

The Eco-Schools programme operates in 46 countries worldwide involving more than 21,000 schools and 4,000 local councils - representing more than 400,000 teachers and six million students.

Schools can self-assess themselves for Bronze and Silver awards before achieving the coveted Green Flag Award. Green Flags are awarded to schools with high achievement in their programme and is a recognised and respected eco-label for environmental education and performance.

As part of the event Bloomfield and Holywood Primary Schools (North Down's most recent Green Flag winners) showcased their work.

Eco-Schools in NI is administered by TIDY Northern Ireland and is supported by all five of the Education and Library Boards with financial support from the Northern Ireland Environment Agency and 23 of the 26 local councils.

If you would like more information or want to register for Eco-Schools please visit www.eco-schoolsni.org.

Pupils and teachers of Bloomfield Primary School and Holywood Primary School with Naomi Foss, Eco-Schools Project Officer



'WEEE' STEPS IN THE RIGHT DIRECTION

More good news on the recycling front. The UK's Environment Agency has revealed that the percentage of household Waste Electrical and Electronic Equipment (WEEE) collected for recycling or reuse in the UK increased from 36.66% in 2009 to 38.4% in 2010.

The data for quarter four of 2010 also shows a small increase in the tonnage of material collected for recycling or reuse, up by 3.34% to 461,220 tonnes in 2010.

This is even more impressive when given the EU's current weight-based target for WEEE goods which expects four kilograms to be collected per head of population. The UK collection rate is currently 7.46 kg per head.

There is little room for complacency though as the EU is about to change its target to a percentage-based goal. One target being contemplated is the collection of 65% of the average weight of electrical and electronic equipment placed on the market over the two previous years. If that's the case, the UK will need to achieve a step change in the amount of WEEE products collected for recycling if the target is introduced, as expected, in 2016.

While UK householders have been doing their bit to recycle WEEE items, British businesses have been lagging behind. According to the Environment Agency just 5.14% of non-household electrical equipment put on the market was collected for recycling last year. As recently aired on TV, authorities suspect that a significant proportion of business WEEE is being handled outside the official system and may end up being illegally exported to the developing world.

The vast majority of WEEE recycling is accounted for by large household appliances.

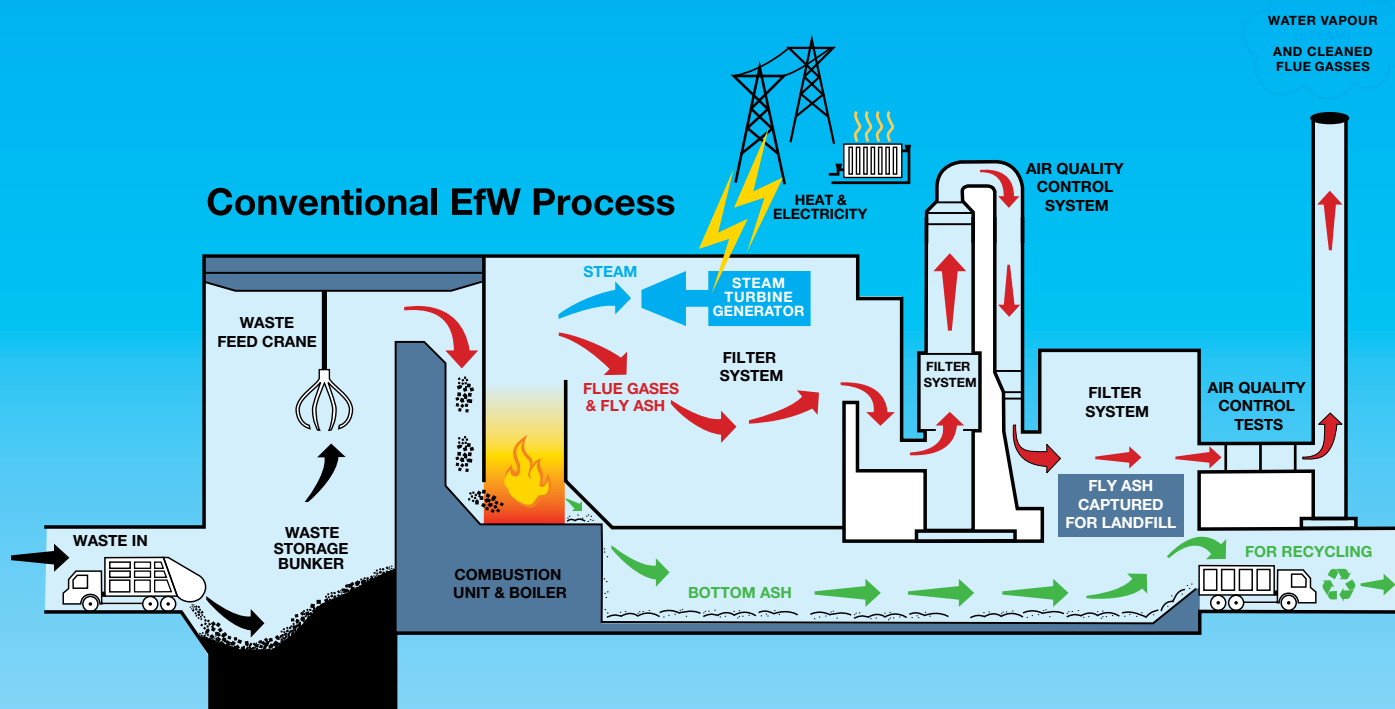
In terms of specific categories of household WEEE, the figures for small WEEE - which has been identified as a key priority if the UK is to significantly increase its collection rate - show a slight increase in percentage and tonnage collection rate.

In 2010, 22,870.284 tonnes, or 16.14% of category two small household appliances were collected, up from 20,537.52 tonnes, or 14.32% in 2009.

This does, however, represent less of an increase than the improvement between the 11.89% for 2008 and the 2009 figure.

The bulk of the WEEE tonnage continues to come from category one, large household appliances, with 461,220.232 tonnes - or 29.66% - of the 476,167.81 tonnes of this category of WEEE collected for recycling or reuse.





RWTP UPDATE

SITA UK has announced its intention to withdraw from the Residual Waste Treatment Project (RWTP) to deliver new waste infrastructure for the arc21 region.

David Palmer-Jones, Chief Executive of SITA UK, said:

"SITA UK has been fully engaged in a comprehensive due diligence process for the arc21 PFI contract and having reviewed our current commitments and the requirements surrounding the bid, we have taken the decision to withdraw from the procurement process.

"This decision has not been taken lightly and we would like to underline our commitment to our continued involvement in PFI procurement projects in the UK. SITA UK wishes the arc21 team every success with this continued procurement."

In acknowledging the withdrawal arc21's Chief Executive, John Quinn, stated:

"We are obviously disappointed that SITA UK has taken the decision to withdraw from the competition and thank them for their best wishes. We will continue to progress our project in a considered and measured way."

ENERGY FROM WASTE UK

Some of the UK's largest waste management companies have come together to launch a new initiative to encourage Government to support waste-to-energy projects.

Known as Energy from Waste UK, the group issued a joint statement in February arguing that the technology is the best way for the UK to meet its European landfill diversion targets, while also maintaining high recycling levels, providing value for money and delivering local solutions for local waste.

According to the group: "Energy from waste provides us with an opportunity for a waste solution and a local source of energy rolled into one.

"While we welcome the coalition Government's focus on expanding anaerobic digestion, it can only address a portion of the waste stream and is not sufficient on its own."

The group highlights five key arguments in favour of EfW:

- 1) EfW can help prevent a UK energy deficit
- 2) EfW is a cost effective solution in challenging economic times
- 3) EfW can contribute to the localism agenda
- 4) EfW is compatible with effective recycling
- 5) EfW is not harmful to the environment or public health

Among the detailed points put forward the group states that energy recovery could generate 10% of future UK electricity requirements, it enhances security of energy supplies and that it will help the UK meet increasingly tough CO2 and renewable energy targets.

The group also cites the widespread use of EfW in Europe's "green economies" where it is an integral part of modern recycling and waste collection systems.

With regard to environmental impact the group encourages the public not to confuse modern EfW facilities with 1970s style incinerators which wouldn't meet today's strict environmental standards.

They also argue that EfW only makes a very small contribution to background air pollution and that major factors such as road transport or indoor air pollution should be the primary focus of attention; EfW actually reduces greenhouse gases and displaces CO2 emitted by fossil fuels.

For further information visit:
www.energy-from-waste-uk.co.uk

WASTE 'GATHERING'



Belfast's Waterfront Hall has hosted a waste seminar organised by arc21. The gathering, which attracted speakers from Europe and the UK, looked in detail at a range of issues relating to the procurement and delivery of major waste management infrastructure. Its aim was to provide information for Councillors and Officers on the various issues associated with arc21's project, and to provide the opportunity to aid understanding through questioning of expert speakers.

Among those presenting were the European Investment Bank (EIB) and DEFRA, the Department responsible for waste issues at Westminster. WasteLine takes a look at some of the key messages.

DEFRA

Although the Department for Environment, Food and Rural Affairs operates primarily in England, it also works closely with the UK's devolved Administrations and usually takes the lead on EU and international negotiations.

As part of its responsibility for waste issues, DEFRA has created a Waste Infrastructure Development Programme (WIDP) to help local authorities "to accelerate investment in the large-scale infrastructure required to treat residual waste, without compromising efforts to minimise waste and increase recycling levels". As is the case in Northern Ireland, they're working towards an EU target to reduce the tonnage of Biodegradable Municipal Waste (BMW) to just 35% of 1995 levels by 2020.

Hitting that target will require greater recycling efforts plus major investments by Local Authorities to treat an additional six million tonnes of BMW. It is clear that the UK has a long term need for the capacity.

Of the 27 projects which WIDP has already helped deliver, the majority have involved elements of Energy from Waste and Mechanical Biological Treatment, as per arc21's own plans. All these projects and the additional 39 currently in the WIDP pipeline entail PFI/PPP arrangements. WIDP have produced a template contract to help both authorities and bidders in the procurement process. This has been developed to enable some flexibility to take account of some aspects particular to individual projects.

EIB

New waste infrastructure requires significant investment, and funding projects of this scale and complexity is an integral part of the delivery process.

One option which arc21 has been discussing is involvement of the European Investment Bank (EIB). The Bank, which is owned by the EU's 27 member states, is used to fund long-term projects.

Projects must meet one of the EIB's policy objectives such as secure energy supplies or environmental sustainability. They must also be technically sound, financially viable, provide a commercial economic return and comply with environmental regulations.

To date the Bank has been involved in several infrastructure projects in the Province ranging from Enniskillen's new hospital to the recent upgrade of the Westlink. It has, however, also funded several waste infrastructure projects including facilities in Manchester and Cornwall.

The benefits of EIB finance is that it offers low cost funding (up to 50% of project costs) and can act as a catalyst to attract other funding partners.

KIDS' CORNER

Reducing, Recycling and Reusing just isn't a job for Mum and Dad - it's something we can all do to help the environment. For a bit of fun why not try the Word Search and see how many of the recycling terms listed you can find? If you're after something more challenging, have a go at the Crossword.

Answers are available on the 'arc21 and You' section in arc21's website: www.arc21.gov.uk Make sure you have a go before taking a sneaky peek though!

See if you can find the following recycling words in our wordsearch: biodegrade, bring centre, compost, donate, eleven, energyfromwaste, glass, landfill, organic, recycle

WORDSEARCH

D	O	R	L	I	E	R	S	R	E	C	Y	C	L	E
B	R	I	N	G	C	E	N	T	R	E	M	A	E	S
C	G	A	N	A	R	L	T	L	O	A	W	I	N	R
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CROSSWORD

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ACROSS

1. Reduce, re-use, ____
4. Number of arc21 councils
7. Rubbish dumped illegally
9. Household recycling rate in arc21's area is now ____ %
10. litre of ____ can pollute 1 million litres of fresh drinking water
11. Powerful greenhouse gas
13. £680 worth of ____ is wasted annually per household
14. Kitchen appliance containing CFCs
16. Naturally decaying items

DOWN

1. Shopping bags should be
2. EfW stands for
3. Northern Irelands on the spot littering fine is ____ pounds
5. Burying waste
6. ____ can be generated from waste
8. MBT stands for ____ Biological Treatment
12. Soil fertilizer
15. Recyclable material made from sand

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