



shanks. **waste solutions.**

Frog Island opening **19th April 2007**

- The day itself
- Press release and coverage
- Speech on behalf of Minister Ben Bradshaw
- Photography
- Podcast link



Programme

The facility was to have been opened by Ben Bradshaw MP, Minister of State (Local Environment, Marine and Animal Welfare), who unfortunately was unable to attend at the last moment. The ceremony celebrated the project's success and the partnership's continued achievements. This was the programme for the day.

Proceedings

- 1100** Coffee and registration at CEME
- 1130** Group 1 tour departs for Frog Island
- 1145** Group 2 tour departs for Frog Island
- 1230** All regroup at CEME for Minister's welcome
- 1245** Presentation and welcome to all
- 1310** Lunch
- 1430** All depart. Minister's tour departs for Frog Island facility
- 1515** Minister departs.

As the minister was detained in Westminster John Burns, Director of the Waste Implementation Programme, DEFRA, stepped in and gave his opening speech.

The East London Waste Authority (ELWA) and Shanks are proud to announce the official opening of new facilities on Frog Island, Rainham, on 19th April 2007, by Ben Bradshaw, Minister for Local Environment, Marine and Animal Welfare.

Since 2002, the East London Waste Authority and Shanks have been working together to provide innovative waste management solutions for the people of east London.

Over 850,000 residents from Havering, Newham, Barking & Dagenham and Redbridge have benefited from a £100 million investment in the regeneration of the local area's recycling, recovery and waste management facilities. As part of the partnership's continued commitment to recycling and resource recovery, ELWA and Shanks have invested £45 million in waste management facilities at Frog Island.

The Frog Island Bio Material Recycling Facility (MRF) is the first large scale recycling and recovery plant of its kind in the UK using Mechanical and Biological Treatment (MBT) technology. The process will extract recyclates from the waste stream and treat up to 180,000 tonnes of household rubbish by shredding and then drying the residual waste to produce solid recovered fuel (SRF), which can then be used by local businesses in place of fossil fuels. The facility also features a flagship Materials Recycling Facility (MRF) designed to sort general mixed rubbish from new Reuse and Recycling Centres (RRCs) across the four London boroughs.

When the partnership's waste strategy is successfully implemented, two thirds of the waste from east London will be recycled, reused or in other ways diverted from landfill, including generating green energy in the future.

East London Waste Authority Case Study

EAST LONDON WASTE AUTHORITY

In January 1986 a statutory Waste Disposal Authority was established when the Greater London Authority was disbanded. ELWA is responsible for the management of municipal waste disposal from the London Boroughs of Barking and Dagenham, Newham, Havering and Redbridge.

THE PROBLEM

- ELWA was handling 500,000 tonnes of household waste, which was increasing year on year.
- Existing landfill contracts were expiring and landfill costs were escalating.
- EU Landfill Directive and National Waste Strategy required waste to be treated and diverted from landfill sites.
- ELWA's facilities needed investment particularly the waste transfer station and the four Civic Amenity (CA) sites
- ELWA needed to improve its environmental performance.
- Best Value Performance Indicators (BVPI) for waste management needed to be met.

THE WAY FORWARD

In response to these drivers ELWA set about developing a 25- year Waste Management Strategy:

- July 1996** ELWA began a wide consultation process on alternative waste management options
- December 1996** ELWA adopted an integrated waste management strategy
- April 1997** ELWA appointed Financial and Legal Advisers to assist in the development and procurement of new, long-term integrated waste management solutions.

THE PROCUREMENT PROCESS

- May 1998** ELWA submits its Initial Outline Business Case to DEFRA for a 25-year integrated waste management PFI contract.
- October 1999** ELWA granted £47m of PFI credits
- April 2000** Procurement started with issue of OJEC Notice
- July 2000** ISOP stage (outline proposals from bidders)
- December 2000** ITT/ITN stage (detailed proposals from 4 bidders)
- July 2001** BaFO stage. (Best and Final Offers from 2 bidders)
- March 2002** ELWA nominates Shanks as preferred bidder
- December 2002** Contract signed between ELWA and Shanks

THE CONTRACT REQUIREMENTS

- 25-year contract term
- Responsibility for processing the domestic waste from a population of just under a million people
- Output-based specification to meet the targets set by the National Waste Strategy and ELWA recycling targets
- The four boroughs to continue to collect the waste while the contractor is responsible for recycling, composting, processing and waste disposal via the Design, Build, Finance and Operation of new waste management facilities
- ELWA transfers one Transfer Station site and five borough sites to contractor
- Contractor responsible for identifying and securing any further development sites
- The contract contains detailed performance targets that penalise poor contract performance

East London Waste Authority Case Study Continued

SHANKS SOLUTION

- ELWA Ltd set up to manage the contract. Shareholders Shanks Group and ELWA
- £132 million of project financing raised (Capex over £100m)
- Refurbishment of 4 CA sites to form Reuse and Recycling Centres (RRC)
- Development of 2 BioMRF sites with a total treatment capacity of 360,000 tpa
- Development of survival bag MRF and refurbishment of existing MRF
- Development of RRC MRF
- Expansion of bring site infrastructure
- Development of waste by rail to access landfill
- Development of visitors/education centre
- Dedicated team of 4 community education liaison officers to implement waste education and communication initiatives
- Development of Shanks East London brand
- Creation of 100 new jobs

CONTRACT PROGRESS TO DATE

2003 Planning and PPC permits secured for new BioMRF sites at Frog Island and Jenkins Lane

- April 2003** New waste by rail transfer service begins from upgraded Dagenham East railhead (up to 170,000 tpa)
- March 2004** Refurbishment of 4 CA sites completed and renamed Reuse and Recycling Centres
- June 2004** Redevelopment of Frog Island Site commences
- February 2005** Temporary Waste Transfer Station completed at Jenkins Lane to allow demolition and redevelopment of existing transfer station
- March 2005** Combined recycling rate at the RRCs almost tripled since contract commencement.

- May 2005** Number of bring sites available across the ELWA area increased by 160 to a total of 700
- July 2005** Frog Island RRC MRF operational
- June 2006** Shanks sign first SRF off-take contract
- September 2006** Frog Island Bio-MRF commissioning
- April 2007** Jenkins Lane Bio-MRF commissioning
September 2008 Survival bag MRF operational at Jenkins Lane

FUTURE MILESTONE

2016 67% of East London's waste diverted from landfill and turned into a resource.

ELWA residents recycling 33% of household waste

SUMMARY

In under three years the following has been achieved:

- 100 new jobs created
- Planning and permitting for all new and redeveloped infrastructure secured
- All new infrastructure completed with exception of Jenkins Lane
- Recycling performance more than doubled
- Significant road transfer of waste to landfill replaced by rail
- Annual environmental performance reports established and published
- Significant engagement with local stakeholders including local schools
- Flagship 25 year partnership between the private and public sectors

For further information call 0800 389 9918
www.shanks.co.uk

The guests included

Councillor Alan Weinberg
Leader of Redbridge Council

Mr Geoff Pearce
Finance Director ELWA and
Redbridge Council

Mr Michael Averill
Shanks

Mr Ian Goodfellow
Shanks

Councillor Steven Kelly
Deputy Chair of ELWA – Havering
Council

Mr Adrian Auer
Shanks

**Councillor Milton
McKenzie**
Chair of ELWA – Barking &
Dagenham Council

Attilio Piatelli
Ecodeco

Robin Treacher
DTW Vavasour

**Councillor Peter
Goody BSc BA**
ELWA and Redbridge Council

Councillor Patrick Murphy
ELWA and Newham Council

Councillor Pat Sheekey
ELWA and Newham Council

Mr Tony Jarvis
Executive Director ELWA

Mr Simon Beedleston
ABN AMRO

Mr Nigel Aitchison
Shanks

**Councillor Mrs Pat
Twomey**
ELWA and Barking & Dagenham
Council

Mr Stephen Ray
Shanks

Mr John Wilson
Deputy Executive Director ELWA

Mr David Woods
Director of Environment Barking
& Dagenham Council

**Councillor Charles
Fairbrass**
Leader of Barking & Dagenham
Council

Councillor Michael White
Leader of Havering Council

Ross Hilliard
Shanks

Graham Kemp
Shanks

Richard Tarrant
Shanks

Mr James Brokenshire MP
MP for Hornchurch

Councillor Georgina Galpin
Deputy Mayor of Havering
Council

Councillor Chris Cummins
Deputy Mayor of Redbridge
Council

Mr Len Norton
Director of Environment
Redbridge Council

Ms Cynthia Griffin
Director of Environment ELWA &
Havering Council

Mr John Chandler
DLA

Mr Jim Crossman
Currie and Brown

Professor Jim Bridges
Chairman of Shanks EAB

Mr Chris Holmes
NIBC Bank NV

Mr Rob Cormie
KPMG

**Councillor Christine
Bowden**
Deputy Mayor of Newham
Council

Ms Shirley Clark
Director of Environment ELWA &
Newham Council

Darren Henegan
Head of Environmental Services
Barking & Dagenham Council

Councillor Dee Hunt
Mayor of Barking & Dagenham
Council

Mr John Powell
Barclays Bank Plc

Mr Andrew Meadowcroft
Barclays Bank Plc

Mr Steve Godman
Mouchel

Mr Martin Ott
Savills

Mr Tim Llewellyn
IES

Mr Roy Patience
Previous Chair of ELWA

Mr Bob Wenman
Head of Street Care Havering
Council

Mr Eric Sorenson
Thames Gateway London
Partnership

Mr Ben Diggins
Ford

Ms Fiona Macintosh
PPS

Mr Ian Sutheran
Castle Cement Ltd

Mr Robin Hanton
Legal Adviser ELWA and Barking
& Dagenham Council

Mr Stephen Kenny
Partner – Wragge & Co

Ms Hazel Nickless
Associate – Pinsents

Mr Ben Prynn
Defra WIP Programme

Mr Howell Jones
Partnerships UK

Mr Jay Gohil
Financial Adviser ELWA and
Redbridge Council

Mr John Howson
Novera Energy Limited

Mr Mick Flynn
Environment Agency

Ms Sanjay Prabhakar
Saipac

Mr Barry Izzard
MDRC

Mr Abdoulie Jallow
Waste Manager Barking &
Dagenham Council

Mr Alan Emery
Waste Manager Newham Council

Mr Tom Lawrence
Waste Manager Redbridge
Council

Mr Dave Hawes
Performance Manager ELWA

Ms Shirley Gray
Office Manager ELWA

Mr Paul Ellis
Waste Manager Havering
& Dagenham Council

Mr Alistair Thompson
Fitzpatrick

Mr Mark Ash
Shanks

Mr Roger Blackwell
Shanks

Mr Mike Platt
Shanks

Mr Jacob Hayler
Environmental Services
Association (ESA)

Mr Austen Lees
Shanks

Mr Gary Stuart
Shanks

Mr Robin Penfold
HSBC Bank plc

Mr Stefan Holmertz
Optibag

Mr Norman Leeper
SFL

Ms Sharon Russell-Verma
WRAP

Mr Tim Fayers
Marsh

Mr Allan Barton
Shanks

Mr Diyal Nonis
Fitzpatrick

Ginny Pulbrook
Citigate Dewe Rogerson

Mr Sergio Testa
Ecodeco

Gabriella Di Marzio
Ecodeco

Mr Carlo Minetti
Ecodeco

Mr Franco Ballestrini
Ecodeco

**Mr Derk Van Den
Boomgaard**
Ecodeco

Mr Neil Searle
Stapleford Commercials

Mr Lawrence Webb
On behalf of Gerard Batten MEP

Mr John Burns
DEFRA

New recycling facility gets ministerial seal of approval!

Endorsing the new state-of-the-art waste management facility at Frog Island in east London, Mr John Burns, Programme Director of the Waste Implementation Team for DEFRA, told guests he was ‘delighted’ at the new Frog Island facility that offers ‘good environmental benefits’. [Click here for full speech](#)

Mr Burns officially opened the £45m waste treatment facility on behalf of Government Minister, Mr Ben Bradshaw, MP on April 19th.

As part of ELWA’s 25-year Waste Management Strategy to divert the amount of waste sent to landfill, Shanks East London (Shanks) launched its new multi-million pound facility to help meet ELWA’s ambitious recycling targets.

ELWA is the authority responsible for the management/disposal of household waste produced by the four London Boroughs of Barking & Dagenham, Havering, Newham and Redbridge. ELWA’s Waste Strategy includes the use of new technology to treat this waste as well as finding alternative ways to deal with household refuse.

The Frog Island Bio Material Recycling Facility (Bio MRF) is the first large scale waste treatment plant of its kind in the UK which uses Mechanical and Biological Treatment (MBT) technology. The plant will treat residual waste by shredding and drying it,

extracting recyclates and producing material that can be burned as fuel. The material leftover from the process, known as Solid Recovered Fuel (SRF), is already used by local businesses as a green alternative to fossil fuels.

The Frog Island site will be able to sort up to 180,000 tonnes of general mixed waste. It also features a large recycling facility that will take household waste from the Reuse & Recycling Centres (RRCs) across the four Boroughs.

At the opening ceremony on 19th April 2007, Councillor Milton McKenzie, Chair of ELWA, said:

‘ELWA is pleased to be working in partnership with the four Boroughs and Shanks to improve how the waste is managed in east London. Not only will the facility at Frog Island help the Boroughs to achieve our ambitious targets for recycling, it will also help divert waste from landfill and provide green energy for the future.’

A modern piece of art was produced by a local artist from the University of East London to celebrate the project’s success and the partnership’s continued achievements. It is located within the grounds of the Frog Island facility.

Media enquiries to: Robin Treacher DTW Vavasour, telephone 01233 614525

Coverage

The opening was widely covered by the media. Here is just a small sample of the coverage.

Frog Island site hops in to process borough's rubbish

Monster £45m recycle plant open for business

By EDEN BLACK



AN enormous new waste plant has at last opened its doors to rubbish from Havering and beyond.

The £45million monster plant at Frog Island, Rainham, will process and treat waste from the borough and neighbouring Haringey and Dagenham.

The grand opening last Thursday was attended by dozens of guests, including Haringey MP James Brokenshire and Havering Council Leader Michael White.

Run by Shanks East London, on behalf of the East London Waste Authority (ELWA), it will make inroads into helping achieve a 25-year-long plan to reduce the level of rubbish piled into landfill sites.

It will have links with another similar plant to be built in Beckton, East London, which will aim to clear for the waste from Newham and Redbridge.

The plant is a bio material recycling facility which has the unique ability to extract all the re-usable bits of household waste. It then automatically converts them into a range of fuels.

The plant was due to be unveiled by Government Minister Ben Bradshaw – but on the day he had to duck out because of House of Commons duties.

Up to 180,000 tonnes of household waste will be converted by the plant into fuel each year.

In addition, orange recycling bags are sorted from their black counterparts by giant metal claws that pick up loads of two tonnes at a time.

The recycling bags are then transported to a special plant, though moves are in place to deal with them on site in future.

Meanwhile, the household waste is shredded before being dried so that it can be sorted and condensed into blocks – Solid Recovered Fuel.

They consist of a range of materials, which can be used to power local firms signed up to the centre.

Milton McKenzie, of ELWA, said: "ELWA is pleased to be working with the four boroughs and Shanks to improve the way waste is managed in East London.

"Not only will the facility help the boroughs to achieve our ambitious recycling targets, it will also help divert waste from landfill and provide green energy for the future."



● Milton McKenzie

Materials Recycling Week - LATEST NEWS Page 1 of 1

East London MRF plant opens 21/04/2007

By Paul Sunderland

The UK's first large scale waste treatment plant using Mechanical and Biological Treatment (MBT) has been opened by Department for Environment, Food and Rural Affairs' programme director of the Waste Implementation Programme John Burns.

At a cost of £45 million, the Frog Island Bio Material Recycling Facility (BMRF) in Rainham, East London, can treat up to 180,000 tonnes of the residual waste by shredding and drying it, extracting recyclables and producing material that can be burned as fuel.

East London Waste Authority (ELWA) chairman Cllr Milton McKenzie said: "ELWA is pleased to be working in partnership with the four Boroughs and Shanks to improve the way the waste is managed in East London. Not only will the facility at Frog Island help the Boroughs to achieve our ambitious targets for recycling, it will also help divert waste from landfill and provide green energy for the future."

ELWA is the authority that deals with household waste for the London Boroughs of Newham, Havering, Redbridge and Darking & Dagenham.

The facility, which is part of a multi-million pound regeneration programme by Shanks East London on behalf of ELWA, also includes a traditional MRF.

Send us your trash

Frog Island could soon be the recycling centre of the country

by Steve Huxley

EAST London could become the recycling capital of Europe after officials unveiled the UK's largest congested waste plant.

The £45million mechanical-biological treatment (MBT) centre was opened at Frog Island, Rainham, last Thursday.

More than 180,000 tonnes of waste each year are collected from homes in Newham, Havering, Redbridge, Warking and Dagenham.

Black bags are emptied into vast aerial waste-towers where metals and other recyclables are automatically removed.

The leftover waste is then dried and shredded, before being used as a 'green' alternative to fossil fuel. Current plans are the final destination for the fuel, with less than 15 per cent of all waste eventually going to landfill.

The plant was built with public and private cash following an agreement between Shanks Waste Solutions and the East London Waste Authority (ELWA).

ELWA chairman, Councillor Milton McKenzie said: "The opening of Frog Island marks another major step by the capital's boroughs in managing London's waste.

"It adds to an ever-growing and irrefutable body of evidence that proves London boroughs' continuing commitment and ability to rise to the twin challenges of recycling and diverting waste from landfill."

Shanks's experts will run the site on behalf of the ELWA, which is responsible for the waste disposed of the four boroughs.

Household collections will pick up both black sacks and orange recycling bags in the same lorry.

They are mechanically sorted by machines at Frog Island, reducing the need for extra lorry movements.

● What do you think? E-mail: letters@rediffmail.com



SHANKS A LOT: The leader of Redbridge Council, Alan Worsley, at the opening of the £45million waste recycling facility at Frog Island. Photo: Greg Threlkeld

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John Burns' speech

Climate change is the greatest environmental challenge facing the world today.

Governments – as well as businesses, citizens and consumers – all need to accept the overwhelming scientific evidence and recognise the need for further action.

It will take time, and will not be easy, to turn things round.

We have two choices.

We can pretend that nothing is happening – put off action and pay more later for the changes we should be making now.

Or we can get real, take action and recognise the opportunities as well as the threat that global warming brings.

Britain already has an impressive track-record in environmental goods and services – a hugely diverse, dynamic and rapidly growing sector. The EGS sector covers vital, long established industries such as drinking water supply, waste water treatment and solid waste management – areas where Britain has long been a global player.

Increasingly, sustainable waste management routes are being recognised for their renewable energy and carbon benefits. And the need for substantial ongoing investment in clean waste management technologies will continue to open up huge opportunities for efficient, dynamic and innovative companies.

So I am delighted to see what Shanks East London is doing here at Frog Island.

This Mechanical and Biological Materials Recycling Facility offers good environmental benefits.

It provides a waste management solution, and the opportunity to displace fossil fuel use.

And it shows other waste disposal authorities what can be achieved with a bit of imagination and a lot of determination.

I know, of course, that industry, the financial sector, and local authorities, are reluctant to invest in the future without a framework.

We all need to be clear what we are doing and where we are heading.

Domestically and in Europe there is now a range of targets, policies and regulations that set out what we need to do and when.

And much of it is there to drive the waste sector to find alternative disposal routes, and support projects like this Frog Island facility.

But the Government's revised Waste Strategy – which we will soon be publishing – will also offer crucial guidance on how we see the future developing.

It will build on our earlier strategy to:

- Find incentives for waste prevention by both producers and consumers;
- Get as much value as possible from the waste that is produced;
- And manage the residual waste that remains, after recycling and re-use, in ways that are beneficial to the environment and cost effective.

John Burns' speech continued

The Chancellor has already announced a further route for progress – landfill tax is going up by £8 per tonne from 2008 until at least 2010/11.

Options like recycling, composting, and mechanical and biological treatment will be increasingly cost effective compared to the traditional 'dig and dump' approaches.

And that means greater demand for new infrastructure like this.

However, it is all very well us in Government telling you to invest in the future, telling you to take action. But we also have a role to play – working with you to achieve our goals.

Our new Waste Infrastructure Delivery Programme is already up and running. It's designed to work closely with you. To strengthen progress with the construction of the £10bn worth of new infrastructure needed to meet our obligations to divert more biodegradable waste from landfill.

The programme will provide local authorities with comprehensive, end to end support for major infrastructure projects.

It will offer help with:

- defining the requirements and the action needed,
- choosing the right procurement strategies,
- considering the right mix of technologies,
- getting through the land-use planning process, and
- consulting, and providing information to local communities,

And it will support authorities when they need to negotiate contracts, and through all the steps needed to see a project

become fully operational on the ground.

Support will continue to be provided through the Private Finance Initiative, which has proved a highly successful route.

Since 1997, 20 authorities have already benefited from about £900m worth of PFI funding.

East London Waste Authority has also benefited from PFI support – £47m worth of credits helped finance the construction of this facility.

I expect the number of applications for PFI to increase over the next 2 or 3 years. And we have already announced a more streamlined process for applying to Defra for waste PFI credits.

It will give confidence to the supply side of the market that enough projects are coming forward in an orderly process to justify investment in bidding and supply capacity.

It should also encourage new entrants to the market and improve the competitiveness of local authority procurements.

To get the best possible value for money from the available funding, our recently revised PFI criteria strongly encourage Local Authorities to explore opportunities for joint working. Here today we can see the benefits of close working between neighbouring authorities on a major procurement.

This is way of working I am keen to promote.

For example, through our Local Government Bill, the Government is creating the powers to form more Joint Waste Authorities like ELWA. It will allow existing authorities to pool their resources –

John Burns' speech continued

improving their chances to deliver major residual waste treatment projects.

This is a sector where results are starting to be achieved.

2005/6 saw a 3% fall in municipal waste arisings – only the second time it's ever happened. There are lots of reasons why we see annual fluctuations in waste, but I'm encouraged that this is happening against the background of a healthy, growing economy.

In the same period, the amount of municipal waste sent to landfill fell by 10%. And recycling rose to 27%, nearly four times higher than in 1996/97.

We've not only exceeded our 25% recycling target – the one that nobody thought we'd meet – but waste disposal authorities also met their limits for the first year of the Landfill Allowances Trading Scheme.

In an ideal world we would all like to see an end to waste generation and ever-greater re-use and recycling. But we all know we will never totally eliminate waste, so energy recovery

has a crucial role to play in the way we handle waste in the future. Continental countries with far higher levels of recycling than us, live happily with greater levels of energy from waste production too.

Energy from waste is not just about extracting value from resources. It's also about living more sustainably, making a contribution to energy security, and providing a local low carbon fuel source.

By reducing the pollution associated with all aspects of waste, we are fighting the biggest long term environmental threat this planet faces – dangerous climate change.

In 2004, the waste sector emitted 3.4% of total UK greenhouse gases – mostly methane from materials decaying in landfill sites.

That is why the recovery of energy from waste has a vital role to play. And plants like this one are a crucial demonstration that technology and innovation are not pipe dreams, they are real and they are here now.

Photo gallery



Mr Mike Averill, CEO Shanks



Left to right:
Council Leaders: Alan Weinberg, Redbridge Council; Michael White, Havering Council and Charles Fairbrass, Barking and Dagenham Council.



Left to right:
Cllr Christine Bowden, Deputy Mayor of Newham Council; Mr James Brokenshire, MP for Hornchurch; Cllr Dee Hunt, Mayor of Barking and Dagenham Council; Cllr Chris Cummins, Deputy Mayor of Redbridge Council; Cllr Georgina Galpin, Deputy Mayor of Havering Council.

Photo gallery



John Burns, Director of Waste Implementation Programme (WIP) for DEFRA.



Art sculpture produced by the University of East London to honour the event.

Photo gallery



Left to right:
 Cllr Patrick Murphy, ELWA and Newham Council; Cllr Milton McKenzie, Chair of ELWA and Barking and Dagenham Council; Cllr Mrs Pat Twomey, ELWA and Barking and Dagenham Council; Cllr Steven Kelly, Deputy Chair of ELWA and Havering Council; Cllr Peter Goody, ELWA and Redbridge Council; Cllr Mrs Pat Sheekey, ELWA and Newham Council.



Left to right:
 Cllr Milton McKenzie, Chair of ELWA, Barking and Dagenham Council; Mr John Burns, Director of Waste Implementation Programme, DEFRA; Mr Mike Averill, CEO Shanks