Cheshire East Waste Needs Assessment

Presentation to **Environment and Prosperity & Scrutiny** Committee 13th September 2011

Resources



Content

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- Process
- Results

Resources



Why producing WNA?

- Part of an evidence base of studies
- of the type and number of waste management facilities required to be planned for within the Local Development Framework (LDF) Core Strategy for Cheshire East •
- Assessment which is able to simulate future waste facility requirements under a range of scenarios

All waste streams;

- · Municipal,
- · Construction and demolition and excavation (CD&E)
- · Hazardous waste
- Sewage sludge
- Agricultural
- Low level nuclear/non nuclear

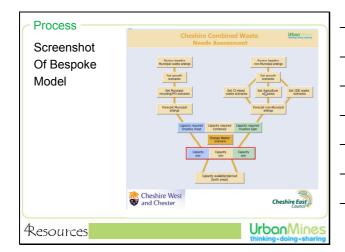


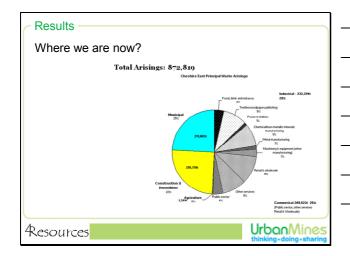
Process

- · WNA produced jointly with Cheshire West and Chester
- Consultants & staff identified all current active waste management facilities in Borough
- Using most up to date information assessed current waste arisings across Cheshire East, how much waste imported to CE for treatment and how much exported for treatment
- Developed bespoke model to predict waste arisings over next 10 years (economic/fiscal/growth measures) and to match against the capacity of existing facilities and those with planning permission (estimating when become active) to identify the "gap" for internal self sufficiency waste management.

Resources







Where are we now?

Current waste arisings for Cheshire East (09),

1000 tonnes showing total wastes (including all agricultural wastes managed within land holdings).

Management location includes inside and outside of Cheshire East boundaries.

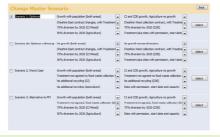
Waste Type	Total	Recycled	Composted	Treatment	Incinerated	Landfilled
Cheshire Eas	t ooos T	onnes				
Municipal	211	54	46	0	0	111
Commercial	209	130	0	4	6	69
Industrial	232	109	59	13	7	44
CD&E	218	165	0	0	0	53
Agricultural	693	0	692	0	0	1
Sewage Sludge	483	0	0	483	0	0
Radioactive	0	0	0	0	0	0
Total	2046	458	797	500	13	278

Resources

Urban Mines

Where we want to be?

In order to predict where we want to be, a number of influencing scenarios were developed to represent economic, legal, and policy responses



Resources

UrbanMines thinking-doing-sharing

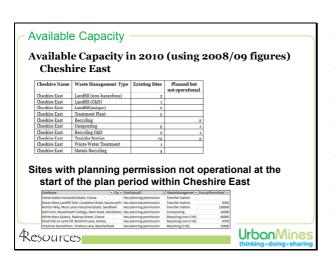
Where we want to be?

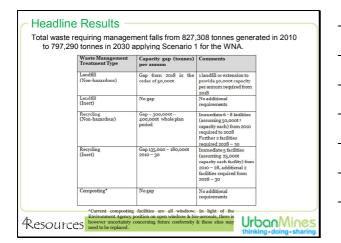
Scenario 1 chosen; Optimum.

- a successful outcome to the authorities' municipal waste management strategies,
- accords with National & EU waste management policy with respect to the waste hierarchy for non-municipal waste arisings.
- recycling targets for municipal waste set by the Council, as unitary waste collection & disposal authorities, are achieved
- recycling potential identified through analysis of the North West Regional Commercial & Industrial waste survey 2009 and Environment Agency data (2008) on deposited construction & demolition waste & for the agricultural sector are also achieved.

UrbanMines

Vaste Type	Municipal	C&I	CD&E	Agriculture
2020 Recycled/ composted	54%	75% (mixed waste	75%	50%
reatment	44%	only)		
2020 Landfill	2%	25%	25%	50%
2030 Recycled/ composted	58%			J.
2030 Treatment	41%			
o30 andfill	1%			





ste Management atment Type	Capacity gap (tonnes) per annum	Comments	
Residual municipal waste treatment	becomes operational to provide for in the order of 100,000 t arisings from 2014 & joint operation with CW&C goes ahead)	200,000t MBT facility given planning permission to Viridor (Lostock Site, CW&C) required to become operational by 2014 for use by CE	
Treatment (MSW/C&I)	Gap 11,000t per annum reducing down to 6,000t by 2030	Additional specialist treatment capacity of 11,000t per annum required reducing to 6,000t per annum by 2030	
Energy from waste (MSW/C&I)	Gap – 3,500t whole plan period	Requirement of capacity of approx 3,500t per annum over the whole plan period	
Incineration without energy recovery (MSW/C&I)	Gap – 4,800t whole plan period	Requirement of capacity of approx 4,800t per annum over the whole plan period	
Incineration (specialist)	Gap 4,000t per annum reducing to 2,100t over the whole plan period	Requirement of capacity of approx 4,000t in 2010 reducing to 2,102t in 2030	
Waste water treatment	No gap	No additional requirements	

- The model and its database should be kept up to date as and when new capacity comes on stream.
- It can be reviewed on a regular basis should any of the assumptions used in the scenarios change to reflect policy changes.
- It is further recommended that it should be reviewed prior to any formal submission of the Local Development Framework Core Strategy Development Plan Document.

Resources	Urban Mines thinking a doing a sharing

