APSE

Climate Change and Renewables Advisory Group

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Street Scene Manager

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Realising the Wakefield Asset







Benefits of In-House Harvesting (Added Value)





- Identified capital programme through "Invest To Save"
- 1,000 tonne per annum (sustainable)-Timber markets
- 22% return on investment using Forestry
- Commission figures
- 5 year period to pay back investment
- Creates a job opportunity
- Total return of approximately £240K over a
- 10 year period

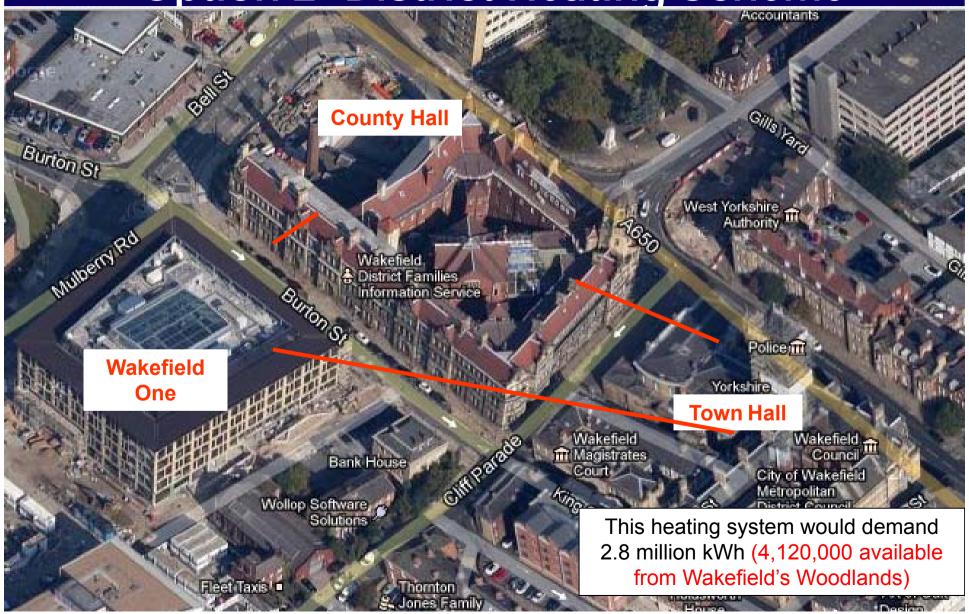
Harvester in Action



Potential Energy Output from Wakefield's Woodland

| Fuel | | Annual yield per hectare (t/ha.a) | Energy per ha p.a. | | |
|--|--|---|--------------------|----------|-----------|
| | | | GJ/ha.a | MWh/ha.a | Kwh |
| Wood (forestry residues, SRW, thinning's, etc.) @ 30% MC (these figures are (per hectare) | | 2.9 (2 odt) | 37 | 10.3 | 10,300 |
| Amount of available heat from Wakefield's woodland holding | | | | | |
| Amount of available woodland in hectares 400 ha (total hectares = 700ha, leaving 300ha contingency | | 800(odt) | 14,800 | 4,120 | 4,120,000 |

Maximising the Woodland Asset Option 2 -District Heating Scheme





How to Ensure Consistency of Timber Supply

The sustainable approach:

- United Kingdom Woodland Assurance Scheme (UKWAS)
- Forestry Stewardship Council (FSC)
- 5 years accreditation at this global standard

Sustainability – Forestry Stewardship Council (FSC)

Independent standard for use in UK woodlands demonstrating that woodland are sustainably managed.

In the near future, timber sold into the markets (including wood fuel) will have to be sourced from certified Woodlands.

We have successfully achieved the UKWAS accreditation for a further 5 years, recognising the quality of our woodland asset management



The UK Woodland Assurance Standard

Wakefield Metropolitan District Council Natural Environment owned by Wakefield Metropolitan District Council

has been assessed under the UPM Tilhill Group Certification Scheme and fulfils the requirements of

The UK Woodland Assurance Standard

This record of membership relates to properties listed on the UPM Tilhill Group Scheme Certification Register. This register is subject to periodic review

Membership number: G107

Issue date: 2nd September 2009 Expiry date: 2nd September 2019

Signed on behalf of UPM Tilhill:

The UPM Tilhill Group Certification Scheme is certified under the 'Qualifor Programme', and is subject to annual surveillance and recertification by 20.01.2015.

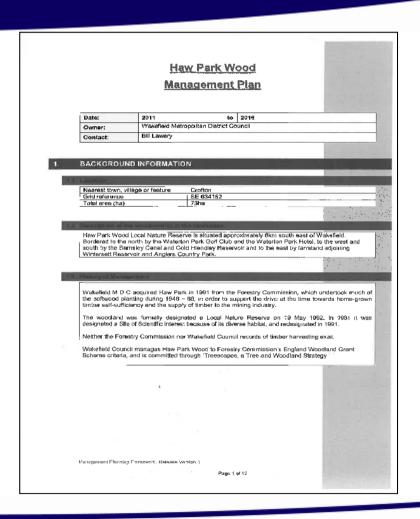
The Qualifor Programme is the forest certification programme of Societé Generale de Surveillance

UPM Tilhill Group Certification number: SGS-FM/COC-000429

UPM TILHILL

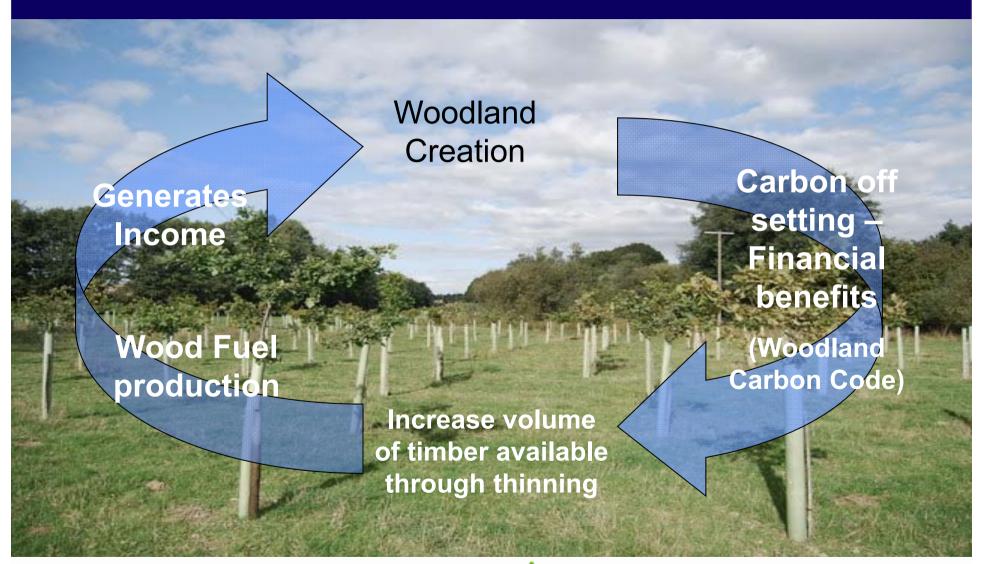
How to Ensure Consistency of Supply

- Woodland Management Plans
- 20 year Management Plans
- We are confident we have
 1,000t for the next 20 years





Woodland Creation



Carbon off setting – Financial benefits Woodland Carbon Code

Primary

- Climate change legislation strive to be a low carbon Council
- Woodlands hold potential soak up CO2
- A subsection of the Forestry Commission handling carbon projects on a voluntary basis
- White Rose Forest Collaboration "Pilot Group"
- Land availability up to 90 hectare
- First step 11.5 hectare project starting 2013/14

Wakefield's Contribution to the Carbon Code

- ☐ Shaw Cross, and Gillcarr, are two re-claimed pit spoil sites.
- ☐ The two sites were chosen as part of a pilot Carbon Code scheme, initiated by the Forestry Commission to promote woodland creation for the sequestration of carbon.
- □ Both projects delivered through a joint initiative with our partners the White Rose Forest group.
- □ A collective total of 11.5ha of new native woodland was planted across both sites, equating to 27,000 new trees, complementing the woodland that already exists and enhancing bio diversity across the two sites.

Project Launch

The project was launched at the Shaw Cross site at the start of National Tree Week 2013.

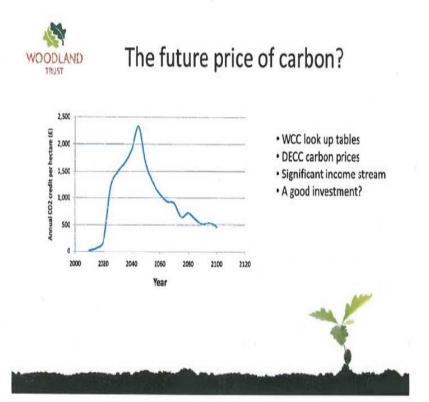




Added Benefits

- ☐ Increased and enhanced the asset whilst minimising cost
- Providing greater access to woodlands in Wakefield
- □ Health and well-being benefits associated to woodland walks (91% surveyed felt parks and public open space improved their quality of life.(MORI)
- Protecting and enhancing biodiversity and natural habitat
- ☐ Sustainable improvements

Financial Benefits - Carbon Trading



- Woodland Trust forecast carbon trading figure of £2,300 per hectare by 2040
- ☐ Potential income of £26,450 from this project in 2040

Pause for Thought!

"While there may be no "right" way to value a forest, a river, or a child, the wrong way is to give no value at all"

> Hawker et al. (1999) Natural Capitalism – the Next Industrial Revolution



Thank you