The Green Stuff: An integrated approach to environmental services

Daventry
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Local Authorities Managing the Biomass Supply Chain

Stephen Cirell











Introduction

- biomass as a heating fuel
- the introduction of the RHI
- a planned approach
- but what about the supply chain?



Biomass

- biomass as a fuel
- growth in use
- constraints on biomass heating







Wood fuel demand

- use a hypothetical example;
- ECO project to refurbish 5 tower blocks;
- Including cladding, windows and new biomass boilers;
- demand of 5,000 tonnes of chip pa at 35% m/c











Availability of wood

- there are many sources including:
- urban woodlands;
- aboricultural arisings from parks and gardens;
- recycled wood;







Availability of wood (2)

- commercial forrestry;
- energy crops;
- sawmills;

Review Wood in the Area

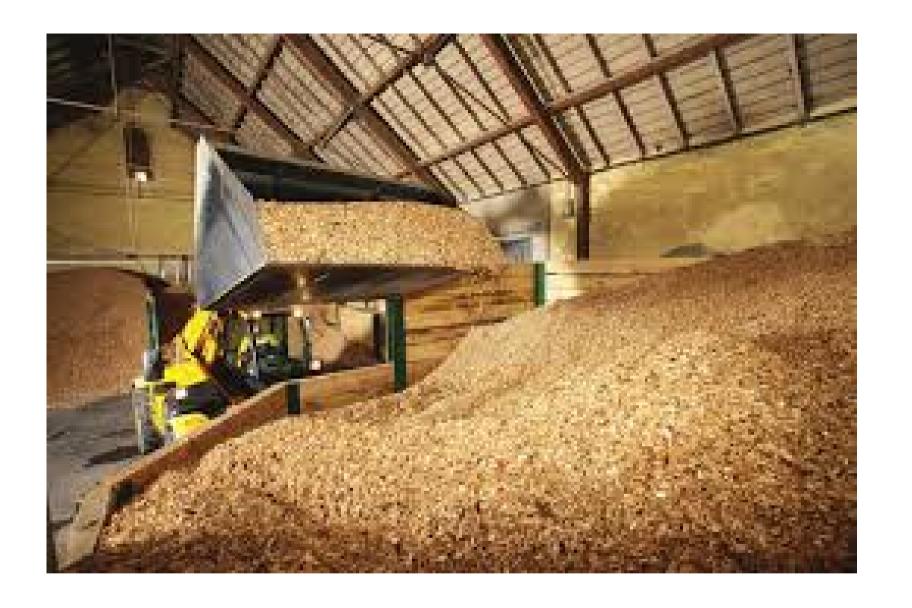
- haulage to the process centre 20 miles;
- review availability of wood from the six sources within that radius;
- irrespective of ownership;

Develop a Process Centre

- the concept of a process centre;
- advantages of a PC in your area;
- operation of the process centre;









The Business Case (a) Site

- size of land;
- type of site;
- shed;
- hardstanding;
- planning consent;

The Business Case (b) Supplies/Equipment

- wood supplies;
- drying the wood;
- the chipping machine;
- miscellaneous;



The Business Case

- capital costs;
- revenue costs;
- cost per kwh (th) for heat



How to Do It

- own and operate;
- separate company;
- outsource;
- partnering;
- risk management;



Timescales

- you need about 18 months 2 years;
- acquisition of site;
- planning of process centre;
- identifying wood supplies;



Conclusions

- the idea started in Cornwall Council;
- now local authorities are looking seriously at it;
- differs from other biomass operations;

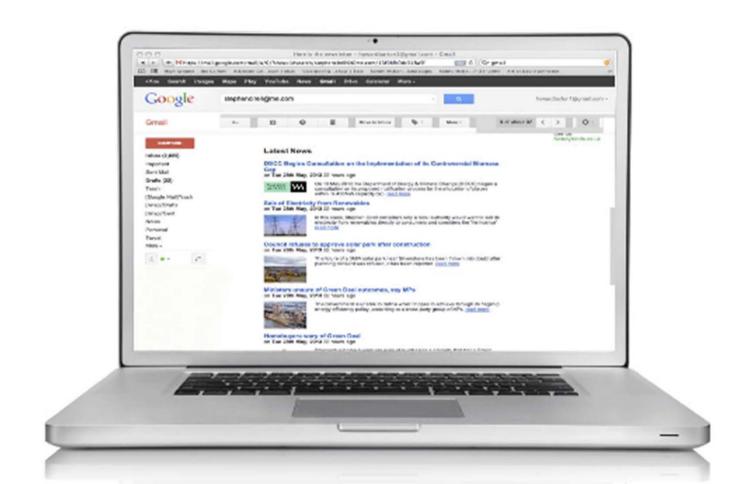
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