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For Social & Economic Research Group, Forest Research



Background

This scoping study was designed as part of the Forestry Commission's current focus on woodfuel, mainly due to it's potential to reduce climate change.
Designed with Norman Dandy (ND) + Anna Lawrence, of the Social & Economic Research Group, to parallel a larger study by ND in E. Midlands.
Carried out Oct 08 - Mar 09, in Fife, E. Scotland Fife land cover~65% arable,~10% woodland



Aim & Method



Aim: To interview 10 private land owners/managers to identify social barriers to, and enablers for, woodfuel production



Identified 10 prepared to take part in the study: - 5 produced woodfuel commercially (owned: 77–200+ ha),

- 5 produced no commercial woodfuel (owned: 34 – 200+ ha).

3 estate owners, 1 estate manager, 6 farmers

Method: Semi-structured interviews + questionnaire



3 Types of fuelwood production

1. Short Rotation Coppice (SRC) -growth + sale managed by woodfuel company 3/10 owners

2. Commercial firewood as a byproduct of timber ops -managed by timber companies 3/10 owners



3. Non-commercial firewood from other woodlands – 'farm woodlands' (for landscape/wildlife/shelter/shooting)
-managed by landowner (and/or employees) 9/10 owners
-used on site by landowner
-cut & given or sold on small scale at farm gate
-given away standing to third party who may sell it



Influences on landowners' woodfuel production decisions



Results: commercial firewood as timber byproduct

Professional Advice

Forest management companies encourage firewd production => offer to pay owner for extracted firewood

Though bigger profit for company if firewood left in forest

July 2008 contract: Company offered Fife landowner: £2/t firewood £6/t mixed conifer timber £12/t spruce green timber

Timber contractor reported:

The contract firewood price does not cover extraction costs

Timber profit covers firewood loss

Results: Short Rotation Coppice

Professional advice

All 3 owners persuaded by SRC company's financial arguments (all got

full planting grant)



Showcase Not Fife

All 3 landowners' SRC
on marginal land

< 3 years old

3) Both fields above: 15 ha total

Professional Practice

Landowners complained about SRC & timber companies' poor practice



1 owner: Poor site choice by woodfuel company => poor tree growth => owner removed SRC after 2 ½ years

Personal Values

\Rightarrow Enable woodfuel production:

• Believe firewood harvest is good use of woodland

All 9 with woods used firewood from own woods

- All 9 had open fires
- 1 hydraulic log splitter for farm gate sales
- 1 log boiler (not in use)





Personal Values

=> Inhibit woodfuel planting:

• Prefer farming to tree-growing



- Believe better to grow food than fuel on good land
 - national food shortage fears
 - fear poor tree growth on good land



Availability of Trusted Firewood Cutters



Local firewood log demand rose winter 08/09 - not fully met by log supply

Not easy to find trustworthy harvesters/firewood merchants (From firewood merchant + landowner interviews)





Firewood grade logs in merchant's yard, Fife

Employees



Employee could be a trusted firewood cutter

- Researcher told 2 landowners about local log shortage (Networking)
- 1, who had a Forest Manager (Employee), collaborated with 2 others & formed log producers group

Networking: Role for Forestry Commission



Woodfuel boiler issues

• Landowner interest in on-site biomass for heating

Technology not user-friendly enough

- Log boiler: too labour intensive for some
- Woodchip: believed to be unreliable and expensive to produce
- Pellets: delivery problems

Currently

under

developmen





Role for

Forestry

Commission



=>Encourage fuelwood production

•Contract work offered to landowners who planted SRC

•Govt grants for SRC planting

•2008 grants for log stove installation

•Oil price rise 2008 ··

Winter 08/09 increase in local demand for firewood logs in Fife





=>Inhibit fuelwood production



• Low oil price => firewood price must be kept low to compete => firewood price can be lower than harvest costs

 High expected income from alternative crops over long term => inhibits SRC planting





Other influences on land management decisions

9/10 made land management decisions in collaboration with others:



joint owners, close family members, land management staff

Some land management decisions influenced by

- Neighbours
- Representatives of grant-giving bodies



Neighbours Community Action

Could increase firewood production

Falkland Transition Group

Aims to reduce carbon footprint
Climate Challenge Fund: feasibility study: use Falkland Forest firewood to heat nearby homes
Supported in principle by forest steward, management chief executive, and forest manager



Summary

Observed influences on landowners' woodfuel decisions

	Encouraging woodfuel production:		
▶	Professional advice	-Timber companies put price on firewood	
	Personal values Networking, Employees Financial	-SRC companies make positive financial projections -Good to use firewood from woods -Clear woodfuel shortage => growers group formed -Oil price rise 2008 -Grants: SRC planting + woodfuel heating systems -SRC contract work	
	Neighbours	-possibly in future: Falkland Transition Group	Querected
			Forestry
	Inhibiting woodfuel production:		Commission
	Professional practice	-Poor crop siting -> landowner removed SRC	input
	Personal values	 Prefer farming to tree-growing 	
	Trusted cutters unavailable Woodfuel boilers issues Financial	 Bad to plant trees on good agricultural land Local firewood log demand not met. Why? On-farm fuel production + use not easy When oil prices < woodfuel harvesting costs Agricultural income from alternatives to SRC 	



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