



Clim-ATIC: Climate Change - Adapting to The Impacts, by Communities in Northern Peripheral Regions

Workpackage 4 - Adaptation Demonstration Projects

Project Plan – Clim-ATIC: Woodfuel in the Cairngorms

1. Project Description

Clim-ATIC: Woodfuel in the Cairngorms

This Clim-ATIC demonstration project will consist of two main parts – a range of training, promotional and awareness-raising events, and the setting up of a community log supply chain. The project will work alongside other ongoing woodfuel initiatives taking place in the Cairngorms National Park which will ensure a legacy of ongoing support and advice after the Clim-ATIC project is finished. In addition the Clim-ATIC demonstration project activities will be an integrated part of the Cairngorms National Park Woodfuel Action Plan, which will ensure complementarity with other woodfuel-related activities in the region.

The project will utilise £31,000 from the Climatic budget (£25,000 from the existing WP4 equal shared pot for Scotland, and an additional £6,000 from CNPA to part cover HBW fees)

2. Relationship to Main Project

Energy supply is always at high risk of disruption due to its existing nature of being transported large distances by cable or pipeline. Climate change may well increase the risk of disruption due to both more frequent extreme weather events and also due to possible future global conflicts over shortages of resources e.g. fresh water or food. Being in a self sufficient position in terms of food, water and energy is desirable for small rural communities in the face of an uncertain future. Utilising a community's assets, in this case its large wood fuel reserves, to generate renewable energy at a local level for use at a local level is a sensible adaptation to future climate change. To ensure that this desirable adaptation can take place, the general public and suppliers and installers of heating systems need to be aware of the possibilities that local wood fuel may have.

3. Project Funding Partners

- Clim-ATIC
- Cairngorms national park Authority
- NNPA land based training programme
- Forest research

4. Project Management Structure

Project steering group:

name	Organsistion/s	role
Formation Group		

Clive Bowman	UHI	Overall WP leader and finance controller
Fiona Chalmers	CNPA	WP local manager
Cliff Beck	Highland Birchwoods	WP activity planner
Jamie Williamson	Alvie estate	Key advisor and venue
Kate Chrutie	Cloud based buisness and traing porject manager	Training organser
Malcolm Wield	Forestry Commission Scotland	Key advisor

Community Group Members	
Estates and Land Owners	Land Managers and Timber growers
Forest Enterprise (FCS)	State Forest management agency
Forest Research	State Research Agency
Aberdeenshire Council	Local authority
Moray Council	Local authority
Highland Council	Local authority
Green Flame	Heating installers
Wood Energy Ltd	Heating installers
Highlands and Islands Enterprise (HIE)	Enterprise Agency
Scottish Enterprise Grampian (SEG)	Enterprise Agency
Scottish Woodlands	Forest Industry Representatives
ConFor	Forest Industry Representatives
DWP Harvesting	Forest Industry Representatives
Highlands and Islands Community Energy Company (HICEC)	Community Support Agency
Scottish Ecological Design Association (SEDA)	Architect professional representatives

5. Project Activities and Deliverables

Training and Awareness-raising Events

A number of events will be held, designed to inform different audiences and increase awareness of different aspects of woodfuel supply and use. These events will make use of knowledge, materials and contacts developed during previous projects (e.g. the NPP Northern WoodHeat project) as appropriate and applied to the local level:

- **Woodfuel Fair** - These will be general events aimed at the general public, publicising the benefits woodfuel can bring. Two Woodfuel Fairs will be held – one during each year of the project (2009 and 2010). It will showcase installers, suppliers and advice sources. Case studies will be presented during “Introduction to Woodfuel” sessions (see below) and experts will be available to answer queries and direct people to relevant information sources. The venue will be Alvie Estate. **27th May 2009 - confirmed**

- **Seminar: 'an Introduction to Woodfuel'** - These 2 events will be aimed at householders who are thinking of installing woodfuel and looking for general information on boilers, installers, fuel supply and suppliers, advice and support and grant-funding.
- **Seminar: Community Woodfuel – 2 seminars** specifically for communities interested in starting a woodfuel initiative. The first will outline the issues involved in supplying and running different types of woodfuel installation, and will also cover business models and give examples of community initiatives already in operation. The second event will be centred on the community log supply chain.
- **Seminar: Woodfuel for the Construction Industry** - This will be aimed at the building trade. It will include presentations from existing installers, suppliers and users, and also from Highland Council representatives on planning and building control requirements and from BRE on accreditation. It will also include information on how to access further training, some of which will also be delivered through Clim-ATIC (see below).
- **Seminar: Sustainable Woodfuel Use: Land Management and Environmental Impact** - This seminar will be aimed at land owners/managers and will discuss how woodfuel production can be successfully integrated with other forest management goals, and how it can contribute positively to habitat management, landscape and biodiversity values.
- **Training: Woodfuel Supply & Fuel Quality** - This seminar will cover fuel supply issues and will be aimed at suppliers and installers. It will cover raw material supply, fuel production, business models and also fuel quality. It will be run twice during the project.
- **Training: Woodfuel Boiler Installation for professionals – 1 training course** will be provided for heating engineers and plumbers based within the National Park, allowing them to become accredited and thus provide a source of qualified installers to meet anticipated demand.
- **Training: DIY Woodfuel Installation** - 2 training courses will be aimed at householders who want to install their own woodfuel system, perhaps in combination with other renewables e.g. solar hot water.
- **Farm Woodland Demonstration** – 2 one day events - The first of these events will be centred on assessment, management and fuel production from an under-managed farm woodland, including a discussion of probable costs and income. The second will re-visit the same woodland after the management plan has been implemented to allow delegates to see the impact, and will also look at establishment of Short Rotation Forestry as a means of expanding the raw material supply. If project timescales permit, this will include establishment of a small demonstration plot.

Promotion and Publications

A programme of publicity and information will be carried out in order to support the above events. Most of this effort will be focussed on the Woodfuel Fairs to ensure that they are well attended, create a significant regional, if not national, impact, and will also provide a vehicle for publicising, and recruiting attendees for, the other seminars and training events

-A recognisable brand for event promotion will be developed to allow effective advertisement of project activities, and to establish an identity for Clim-ATIC's woodfuel work within the National Park.

-Each event will be promoted widely to target audiences through web-based advertising, distribution of flyers, display of posters throughout the park area and advertisement in local press.

-4 local press articles per year will be commissioned showcasing work ongoing as part of Clim-ATIC woodfuel.

- Local case studies – two case studies of existing woodfuel installations in the national park (one small and one medium scale) will be produced for distribution at events and to other interested parties.

- An existing leaflet “Planning a Woodfuel Installation” which outlines the basic factors that should be considered, will be reprinted with the appropriate branding for distribution at events, and supporting material for distribution at each event as appropriate will be designed and produced.

Community Log Supply Chain

The popularity of wood burning stoves as a supplementary household heat source is increasing, and semi-automated log boilers are now available which make heating with logs a convenient and viable possibility for primary domestic heat sources. However, small scale domestic firewood supply in the CNP area is difficult to source economically (unless you own woodland) and often poor quality and the Clim-ATIC project will set up a community-led firewood supply chain. Steps towards this will include:

- Quantification of demand
- Identification of community and formation of steering group
- Visit to existing community supply chain (e.g. Dunnet or Findhorn)
- Assistance with business plan and grant applications
- Seminar for other interested communities outlining the process
- Training – e.g. health and safety and insurance etc.

Advisory work

The Renewable Heat Advisory and Support Service partnership project, managed by Highland Birchwoods, will be established in 2009 and will cover the Highlands and Argyll. Woodfuel advisory services in the CNP area will therefore be provided by this project, which will supply a comprehensive source of advice and support on all aspects of renewable heat production through a network of linked organisations.

6. Project Reporting

We will report progress to the WP4 leader at 3 month intervals.

Key project milestones will be at which a comprehensive mid project review can be undertaken by the WP4 leader

7. Dissemination

This project is essentially an awareness raising and training programme; through out we will be ensuring there is appropriate dissemination and awareness that this project forms part of a much wider project. Evaluation of training methods and knowledge value will be disseminated to other project partners and stakeholders in the wood fuel industry in Scotland and transnationally.

8. Links to other projects

Potential links with Woodland owners WP4 project in Lycksele, Sweden

Will form an integral part of the overall Cairngorms National Park Woodland Strategy

Will have possible links with current NPP project ‘**Developing Scots Pine**’ and ‘**PELLETime**’

Has links will past NPP project '**Northern Woodheat**' (participant from Denmark already invited to workshop in October 2009)

9. Project Finance

Events	Proposed dates	No. delegates	Venue Hire & Catering	Presenter/ trainer fees	Total	Funding source
Woodfuel Fair (x2) inc introductory seminar	27 May 2009	100	£3,000 each	0	£6,000	Clim-ATIC
Seminar: Community Woodfuel (x2)	June 2009 (tbc)	100	£2,000 for both	£500	£2,500	Clim-ATIC
Seminar: Woodfuel for the Construction Industry (x1)	June 2009 (tbc)	100	£1,000	£500	£1,500	Clim-ATIC
Seminar: Sustainable Woodfuel Use: Land Management and Environmental Impact (x2)	Sept 2009 and ? (tbc)	50	£2,000	£1000	£3,000	Clim-ATIC
Training: Woodfuel Supply & fuel quality (x2)	Sept 2009 and ? (tbc)	40	£2,000	£1,000	£3,000	Clim-ATIC
Training: Woodfuel Boiler Installation for professionals (x1)	October 2009 (tbc)	15	500	500	£1000	CNPA land based training programme
Training: DIY Woodfuel Installation (x2)	October 2009 and ? (tbc)	20	500	500	£1000	CNPA land based training programme
Farm woodland demonstration events (x2)	? and ? (tbc)	50	£2,000	£3,000	£5,000	Part by Clim-ATIC (4000), part by Forest Research (1000)
Total					£23,000	

Promotions	Costs (excluding staff time)	Funding source
Clim-ATIC woodfuel branding	£200	Clim-ATIC

Clim-ATIC WP4 Scotland woodfuel demonstration Project Plan - March 2009

Event Material (including banners)	£5,000	Clim-ATIC
Press promotion	£1000	Clim-ATIC
Case studies	£1000	Clim-ATIC
“Planning a Woodfuel Installation” redesign and print	£1000	Clim-ATIC
Training support material	£2900	Clim-ATIC
Web portal by HBW	In kind time	-
TOTAL	£11,100	

Highland Birchwoods Staff costs	rates	Proposed completion dates	Costs	Funding source
Event planning and management	60 days @ £250/day	End of 2010	£15,000	Clim-ATIC
Log supply chain set up	20 days @£250/day	End of 2010	£5,000	Clim-ATIC
Project administration	10 days @ £200/day	End of 2010	£2,000	CNPA
TOTAL			£22,000	

TOTAL COST	£56,100	Clim-ATIC 91%
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The original WP4 budget for all WP 4 projects (excluding WP4 general regional project management, marketing dissemination and travel) was £100,000. As there are 4 WP4 projects in Scotland each would have an equal share; £25,000 each, to spend on WP4 project activities. WP4 wood fuel project had a small pre planning spend of approx £2,000 on facilitated workshop help in October 2008 with an international speaker.

During the development of the wood fuel project, Highland Birchwoods were approached to coordinate local project activities, including the log supply chain establishment. The Cairngorm National Park Authority was willing to provide an additional £22,000 to cover the cost of Highland Birchwood's costs in addition to their current co-financing agreement for Clim-ATIC of £60,000.

However the Euro-Pound rate has changed significantly since October 2007 (0.6952) to approx 0.9 (March 2009). This has meant that the CNPA co-financing contribution of £60,000 does not now equal its agreed Euro value of 87,000 Euro (more like 78,000 Euro). Therefore the CNPA have the opportunity to increase their co-financing in pounds until it matches the Euro level agreed by the NPP (and beyond subsidising the short fall of other regional co-financers who have fixed their contribution in £ based on the exchange rate of October 2007)). This additional co-financing will be match funded by the NPP at a rate of 60%. This additional funding will be directly allocated to the WP4 wood fuel project.

Total funding requirements:

Funding source	2009	2010	Costs
Clim-ATIC (of original £25,000 allocation)	13,100	10,000	£23,100
CNPA additional co-financing via Clim-ATIC	10,000	0	£10,000
Clim-ATIC (additional generated ERDF match funding)	10,000	8000	£18,000
CNPA additional financing direct to WP4 project	2,000	0	£2,000

CNPA land based training programme	1,000	1000	£2,000
Forest Research	1,000	0	£1,000
TOTAL	29,500	18,600	£56,100

Budget Assumptions:

- 1) Installer and DIY installation training will be financed independently through the CNPA land based training programme
- 2) The Short Rotation Forestry Establishment will be financed independently as part of Forest Research's work on a wider demonstration programme. It is possible that the Renewable Heat Advice & Support project might be able to assist with this, but discussions with HIPP and Forest Research are at a very early stage.
- 3) Any capital expenditure required for establishment of the community log chain will be financed independently through CNPA, SRDP, SBSS or the Community Land Unit.
- 4) All other costs beyond the Clim-ATIC budget will be met by CNPA

10. Summary Project Programme

Activity/Event	Proposed dates	Responsible person/organisation
Project planning and preparing marketing material	February 2009 – April 2009	Fiona Strachan – Forest commission Scotland (FCS) Cliff Beck – Highland Birchwoods (HBW)
Woodfuel Fair (x2) inc introductory seminar	27 May 2009	Fiona Strachan – FCS Cliff Beck – HBW
Seminar: Community Woodfuel (x2)	June 2009 (tbc)	Fiona Strachan – FCS Cliff Beck – HBW
Seminar: Woodfuel for the Construction Industry (x1)	June 2009 (tbc)	Fiona Strachan – FCS Cliff Beck – HBW
Seminar: Sustainable Woodfuel Use: Land Management and Environmental Impact (x2)	Sept 2009 and ? (tbc)	Fiona Strachan – FCS Cliff Beck – HBW
Training: Woodfuel Supply & fuel quality (x2)	Sept 2009 and ? (tbc)	CNPA land based training programme
Training: Woodfuel Boiler Installation for professionals (x1)	October 2009 (tbc)	CNPA land based training programme
Training: DIY Woodfuel Installation (x2)	October 2009 and ? (tbc)	CNPA land based training programme
Farm woodland demonstration events (x2)	? 2009 and ? 2010	Forest Research

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	(tbc)	
Web portal	By end of 2009	Cliff Beck – HBW
Establish Log supply chain set up	By end of 2009	Cliff Beck – HBW