

ADAPTATION SUB-GROUP MEETING

THURSDAY 6 MAY: 2 – 4 PM, HOSTED BY GOVERNMENT OFFICE FOR YORKSHIRE AND THE HUMBER.

Lateral, 8 City Walk, Leeds, LS11 9AT

AGENDA

Time	No.	Item	
2.00	1.	Welcome, Introductions and Apologies <i>[Tim]</i>	[Verbal]
	2.	Minutes of the last meeting and matters arising <i>[Tim]</i>	[Attached]
	3.	Climate Change Skills Fund draft programme <i>[Jon]</i>	[Attached]
	4.	Climate Change Plan for Yorkshire & Humber <i>[Jon]</i>	[Attached]
3.00	5.	YoHr Space Sub-Regional Adaptation Projects <ul style="list-style-type: none"> • Progress update <i>[Sub-Regional Reps]</i> • Sharing event in Jun/Jul <i>[Tim]</i> 	[Verbal]
	6.	Meeting de-briefs <ul style="list-style-type: none"> • NI188 Advanced Workshop <i>[Tim/all]</i> • LRAP <i>[Tim]</i> • Climate Change Risk Assessment <i>[Tim]</i> 	[Verbal]
	7.	Any other business <ul style="list-style-type: none"> • Partner updates <i>[All]</i> • Date of next meeting <i>[All]</i> 	[Verbal]

Regional Adaptation Sub-Group Meeting

10 February 2010

Hosted by Yorkshire Futures, Leeds

Attendees

Amanda Crossfield (Chair)	Yorkshire Futures
Alexis Fennell	Kirklees Council Environment Unit
Vince Carter	Forestry Commission
Dave Cherry	Leeds City Council
Gary Arnold	East Riding of Yorkshire Council
Gail Hammond	Environment Agency
Jon Clubb	Local Government Yorkshire & Humber
Tim Godson	Government Office for Yorkshire and the Humber
Bernd Hoermann	Sheffield City Council
Diana Adamson	Selby District Council

Apologies

Andy Horrocks	Yorkshire Forward
George Munson	Leeds City Council
Richard Wilson	Natural England

General Notes:

1. Work on Adaptation Locality Sheets still outstanding (Jon / Andy)
2. The iRS Evidence Hearing has been postponed until after the local & national elections

1. Welcome, Introduction and Apologies

The Chair welcomed members to the meeting.

AC

2. Minutes

The minutes of the last meeting were agreed as an accurate record.

AC

3. Terms of Reference

Agreed to broaden the ToR to include functional sub-regions and also broaden more generally to include relevant adaptation projects that the board might want to discuss.

JC

4. RIEP Adaptation Projects

The Extreme Weather Events Media Trawl has finished in Doncaster and is ongoing in Rotherham. When the reports are complete they will be published.

BH

Diana updated the group on the North Yorkshire LCLIP work. We noted the good value for money achieved from the consultants.

The aim is to get everyone to Level 1 by March, but realistically might not be achieved until the summer.

All to note.

5. N188 Workshop for the Northern Regions – 25 March 2010

East & West Midlands are now on board and all at the same stage.

<p>Look for people to volunteer to speak to small groups/show slides and hold informal discussions to get people interested. Invites to bring a friend be issued.</p>	<p>All to consider TG</p>
<p>6. One Year One Event</p> <p>Cllr Barker is keen for this to be a more working session, challenging what progress has been made, move things along. A more interactive day. Jon Clubb will draft a plan of how things are now with highlighted changes. This will be a theme based day with small groups of discussions to get a real sense of how things are moving along. Emphasis was given that this even will not be political – we would not be seeking pro-active publicity during election purdah. Suggestions for where the event could be held are welcome. Jon Clubb will contact colleagues at the beginning of March for a meeting to plan the event.</p>	<p>JC JC</p>
<p>7. Any Other Business</p> <p>Vince Carter has information about the Forestry Commission which can be issued to the group and confirmed the mapping is available for viewing. Tim Godson will issue a useful LGA publication with UKCP09 link about understanding adaptation. Gail Hammond will issue a ‘Living with Climate Change’ public flier and a ‘Decision Making Framework’ for adaptation.</p>	<p>VC TG GH</p>
<p>8. Date of Next Meeting</p> <p>The next meeting will take place on 27th April 2010 from 2pm to 4pm. The venue for this meeting will be The Environment Agency, Leeds and will be hosted by Gail Hammond.</p> <p><u>POST MEETING NOTE:</u> Next meeting postponed to w/c 4 May to allow time to de-brief from the One Year On event.</p>	



Climate Change Skills Fund (CCSF)

Yorkshire & Humber Work Programme
 April 2010 – March 2011

PROVISIONAL

Contact		
Name	Jon Clubb	Karen Fletcher
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1. Overview

Yorkshire & Humber has a strong track record of leadership and collaboration on tackling climate change. Our CCSF programme aims to build on this foundation to drive up skills and knowledge amongst professionals and elected members to ensure robust planning policies and effective delivery. We want to see fast track improvement and real engagement with citizens to encourage more environmentally sustainable lifestyle choices.

Capturing the extensive work already underway and talking to stakeholders to better understand the gaps and the most effective, best value for money options will be our starting point. Principal considerations that underpin our programme are the legacy beyond the lifetime of YoHr Space and real collaboration between partners that adds value to relevant existing publically funded programmes.

The CCSF programme will be managed by the YoHr Space Climate Change Board and will be delivered through four related work streams with the following provisional funding allocations:

	£k
Climate Change Skills & Leadership Academy	£400
Climate Change Planning Policy Lab	£210
Climate Change Best Practice Hub	£100
Community Energy Engagement Programme	£100
Programme Management	£ 50
TOTAL	£860

2. Work Programme

Climate Change Skills & Leadership Academy		£400k
<p>Objectives</p> <ul style="list-style-type: none"> To improve skills across of planning and relevant non-planning officers in the public sector on climate change mitigation and adaptation. All training must be adapted for e-learning to ensure legacy. Structured development for elected members to support their understanding of the cause, effects and impacts of climate change and how to tackle it locally in decision making. <p>Outcomes</p> <ul style="list-style-type: none"> Knowledgeable local government professionals and LSP partners that can effectively apply planning policy and other initiatives to reduce carbon emissions and ensure adaptation to climate change in their locality. Confident elected members who are advocates for planning policies and their positive impact on the locality and community. 		
Action	Partners	
Accredited training (i.e. Continuing Professional Development) for planning and associated professionals on; renewable, low and zero carbon technologies; sustainable design and construction; flood risk management; and stakeholder engagement.	<ul style="list-style-type: none"> Homes and Communities Agency (HCA) Centre for Low Carbon Futures / Yorkshire Universities. Kirklees: Skills for Climate Change (European Social Fund) Regional Planning Officer Network Regional Flood Defense Committee and supporting structures such as the Flood Learning Alliance. <p><i>LGYH – renewables toolkit to be updated as part of this action</i></p>	
Dedicated training on the practical implementation of adaptation principals in urban design.	<ul style="list-style-type: none"> Climate Change Partnership for Yorkshire & Humber - Adaptation Sub-Group, CABE, HCA – and partners above as required. Local & Regional Adaptation Partnership (LRAP) 	
Dedicated training for Planning Board elected members on renewable, low and zero carbon technologies.	<ul style="list-style-type: none"> LGYH Member Development IDeA Leadership Programme 	

	<ul style="list-style-type: none"> Regional Planning Officer Network
Sub-regionally themed events on key issues (e.g. marine wind, carbon capture, on-shore wind, microgeneration).	<ul style="list-style-type: none"> (Regional CCP) Adaptation Sub-Group Sub-regional CC Partnerships
Basic level training for local authority and LSP officers on climate change; renewable, low and zero carbon technologies; sustainable design and construction; and stakeholder engagement 'place shaping'.	<ul style="list-style-type: none"> Local Strategic Partnerships (LSPs) and as above. <p><i>This is a lower priority area and is subject to funding prioritisation.</i></p>

Climate Change Planning Policy Lab		£210k
<p>Objective</p> <ul style="list-style-type: none"> To provide high level support on planning policy implementation and to strengthen policy around unresolved issues (e.g. retro-fitting historical buildings). <p>Outcome</p> <ul style="list-style-type: none"> Robust implementation of planning policy* on climate change with evidence on how to improve policy further on carbon reduction and adaptation. 		
Action	Partners	
Baseline monitoring performance and facilitate dialogue with developers to help clarify key actions.	Developers	
<p>Develop a small pool of highly technical expertise that can be 'called off' by local authorities to:</p> <ul style="list-style-type: none"> Advise on climate change mitigation and adaptation opportunities when master planning new sites or when addressing smaller projects. Support local authorities to implement planning policy, such as renewable energy production in new developments. 	<p>Procurement activity to be explored nationally.</p> <p><i>NB - Consider options between Merton style policies (renewables installation) and Code style policies (buildings fabric) policies.</i></p>	

Share learning and develop a clear assessment framework and guidance for planning officers evaluating applications which supports transparency of decision making, reduces appeals and increases efficiency.	<ul style="list-style-type: none"> • Planning Advisory Service • LGYH – renewable energy toolkit
Develop clear and locally accepted extensions to permitted development rights to: <ul style="list-style-type: none"> • Remove further minor applications from the system; and • to make it easier for householders to improve energy efficiency or install renewable energy generation capacity. 	<ul style="list-style-type: none"> • Planning Advisory Service
To develop planning policy to help improve energy efficiency and renewable energy generation in historical / listed buildings and in conservation areas.	<ul style="list-style-type: none"> • Conservation Officers Network • Local Authority partner to include teams from: Design, Planning Conservation, Facilities Management. • External Partners: English Heritage, CABI, Yorkshire Energy Services, Natural Trust. <p><i>Core RIEP funding can be up to 10% capital (not CC Skills Fund).</i></p>
Pilot study into making a heritage asset more energy efficient / to generate renewables without upsetting historic or architectural interest.	

* [Regional Spatial Strategy planning policy ENV5: Energy](#)

Climate Change Best Practice Hub		£100k
Objective <ul style="list-style-type: none"> • Comprehensive mapping of best practice to better understand gaps and support required. • A range of case studies, materials and resources to aid improvement and efficiency. Outcome <ul style="list-style-type: none"> • Fast track improvement and enhanced reputation of action driven from within the region. 		
Action	Partners	
Collate baseline information on plans, policies and action at	Utilise www.yourclimate.org as a depository for all projects under the	

local, sub-region, regional and national level.	<i>Best Practice Hub</i>
Mapping and sharing of best practice around implementation of policy (low carbon / adaptation).	
Develop links with Local Carbon Frameworks to develop models for carbon reduction targets and best value for money region wide.	<ul style="list-style-type: none"> Local Area Climate Change Network Climate Change Partnership for Yorkshire & Humber Sub-regional climate change partnerships
Sharing of best practice around BREEAM and Code for Sustainable Homes (CSH), especially overcoming cost of certification, monitoring and enforcement.	<ul style="list-style-type: none"> Leeds City Region Partnership Sub-regional Climate Change Partnerships
Produce worked examples and case studies for decentralised energy and adaptation to climate change.	BRE
Produce worked examples and case studies for decentralised energy and adaptation to climate change.	Local Government Association
Comprehensive signposting of existing help, including communication of new initiatives.	Climate Change Partnership for Yorkshire & Humber, Planning Advisory Service, CAFE, RTPI, TCPA.

Community Energy Engagement Programme		£100k
Objective		
<ul style="list-style-type: none"> Build on existing work to improve community engagement, understanding and participation in the use and benefits of renewable energy technologies. 		
Outcome		
<ul style="list-style-type: none"> Increased uptake of micro-renewables in localities with improved support for larger area based low or zero carbon schemes. 		
Action	Partners	
Develop awareness of initiatives such as the Feed in Tariff, Renewable Heat Incentive	<ul style="list-style-type: none"> Energy Savings Trust 	

Encourage grass roots activity that promotes and supports the benefits of local renewable energy projects.	<ul style="list-style-type: none"> • Third sector partners • Energy Savings Trust e.g. Green Communities.
Provide up to date guidance to householders on permitted development rights, how to prepare planning applications, and opportunities to install renewable technologies.	<ul style="list-style-type: none"> • Local authority partner (Planning) • Microgeneration Partnership • Trading Standards Institute
Public workshops/seminars on how to make historic assets more energy efficient/generate renewable energy on such sites without upsetting their significance.	<ul style="list-style-type: none"> • English Heritage • British Urban Regeneration Association (BURA) • Third Sector partners tbc <p><i>Links directly to Policy Lab Work</i></p>
Wider engagement and involvement with other public and voluntary sector bodies.	Health Services, Fire, Police, Natural England, Environment Agency, Global Action Plan, National Energy Action...

3. Programme Management (including Quality Management)

Work on the Climate Change Skills Fund will fall under the YoHr Space Climate Change Board's work programme. Chaired by a local authority Deputy Chief Executive with senior officers representing sub regions and strategic advisors from the partners including the Government Office, IDeA, the Environment Agency and the Energy Savings Trust – the board is well placed to support delivery. The board has a strong track record of quickly drawing together stakeholders from across the region to scope, design and deliver work programmes at the regional, sub-regional and local level. It is anticipated that additional programme support will be required to help deliver the Climate Change Skills Fund – this is built into the baseline budget.

For climate change related projects approval of grant funding is delegated to the YoHr Space Climate Change Board. YoHr Space requires all recipients' of funding to complete comprehensive project briefs for funding under £50k and full project initiation documents for projects over £50k. Grant funding is paid to recipients quarterly in arrears only on receipt of completed performance reports, which are used to monitor the RIEP programme overall.

The YoHr Space Climate Change Board currently meets monthly and receives verbal updates on all projects and a quarterly written programme highlight report. The Board reports to the YoHr Space Programme Delivery Group of Chief Executive Officers who have

oversight of all the work programmes across YoHr Space. An elected member level board provides the overall strategic direction for YoHr Space.

4. Risk Management

A plan for identifying, prioritising and controlling the risks to the success of the programme in terms of meeting its time, cost, quality, benefits and scope targets is set out in annex B.

Risk	Owner	Impact H/M/L	Probability H/M/L	Mitigation	Deadline	Residual risk
Duplication of effort across the regions	JC	M	M	Sharing of draft work programmes to identify opportunities to collaborate nationally or inter-regionally.	May 2010	Inability to reconcile projects into shared milestones and outcomes between regions.
Current officer capacity not enough to ensure delivery within already tight timescales	CCB	H	M	Ensure capacity is built in either regionally, sub-regionally or locally.	Jun / Jul 2010	Delay in securing additional capacity leads to slippage in timescales
Inability to spend funding within agreed timescales whilst ensuring best possible value for money	CCB	M	M	As above (capacity) to ensure coordination is built in from the start to avoid duplication and to identify economies of scale.	Jun / Jul 2010	Delay in securing additional capacity leads to poor value for money or underspend.

JC – Jon Clubb

CCB – YoHr Space Climate Change Board

5. Next Steps

- National meeting in London on 13 May to assess links between regions.
- YoHr Space Climate Change Board 20 May to receive feedback from national meeting and allocate key tasks.

- June – Develop project briefs and PIDs for consultation and agree programme management resources
- July – Sign off proposals and begin delivery.
- September / October – first funding requests submitted and paid.

PRIORITY AREA: STRATEGY AND MONITORING

Sponsor: Debbie Rosen, Yorkshire Forward

The region is currently developing a single integrated regional strategy – the Yorkshire and Humber Strategy (YHS) – with addressing climate change considered a strategic regional priority. The YHS will make a significant contribution towards climate change mitigation and the development of the low carbon economy, helping meet the Government’s greenhouse gas targets and carbon budgets, as well as highlighting the need for increased action on adaptation.

The YHS will also need to take into account current obligations under Planning Policy Statement 1 on Sustainable Development and its supplement on climate change, as well as making a contribution to meeting the national requirements of Climate Change Act (2008).

The Climate Change Partnership will seek to strongly influence the development of the YHS. Progress against targets will need to be closely monitored.

Outcomes:

- YHS development is informed by robust evidence on carbon emissions reduction, including emissions trajectories and an evaluation of the carbon impacts of delivering the various policy options
- Action on climate change is mainstreamed within the YHS, in terms of adaptation as well as mitigation
- Subsequent monitoring of the YHS Implementation Plan demonstrates that any emissions targets contained within the YHS are being met, with regional and local action moving towards a low carbon, climate resilient economy

Action	Lead partners	Timescales	Progress
YHS to include a strong focus	LGYH, Yorkshire Forward	Ongoing	Evidence on climate change to inform YHS

Action	Lead partners	Timescales	Progress
on climate change, supporting the creation of a low carbon economy whilst also providing direction on emissions cuts and building resilience to climate impacts			development was collected up to the end of March 2010. This will now be considered in the development of policy options and policies. Importantly, there will be a need to ensure that climate change is considered as a cross cutting theme throughout the YHS, rather than treated as a standalone issue. This will include, for example, considering the need for resource efficiency in business and industry, ensuring that development is located in a way that minimises the risk of flooding, and addressing equity issues such as fuel poverty
Climate Change Partnership to fully engage in and influence the development of the YHS, in terms of both mitigation and adaptation	Climate Change Partnership	Ongoing	Climate Change Plan for Yorkshire & Humber and Regional Adaptation Study were put forward as key evidence to inform the YHS. The Partnership also coordinated additional evidence from across the partnership members, via Yorkshire Futures. A member of the Partnership sits on the Independent Sustainability Board.
Leadership and advocacy on the need to mitigate and adapt to climate change to be displayed across the region	Joint Regional Board, Yorkshire Forward, LGYH	Ongoing	At its December 2009 meeting the Joint Regional Board (JRB) identified climate change and the low carbon economy as areas where the region has potential to make radical progress and, in certain aspects, to become a global leader. Work is now underway to

Action	Lead partners	Timescales	Progress
			<p>establish what this means for the region and for the YHS.</p> <p>Leadership is also being demonstrated by local authorities across the region and by Functional Sub-Regions. For example, the Leeds City Region (LCR) is one of ten national Low Carbon Framework pilot areas. The LCR has been developing an ambitious 'urban eco-settlement' programme, aiming to deliver 28,000 homes at least at Level 4 of the Code for Sustainable Homes, and at Eco-Towns PPS standards in 4 main regeneration areas. LCR is also aiming to deliver a Domestic Energy Efficiency Programme jointly across the sub-region. This is intended to be similar to the leading Kirklees home insulation scheme - aiming at 300,000 homes insulated by 2015.</p>
Carbon trajectory research to be undertaken to inform the policy choices of the YHS	Yorkshire Forward, LGYH	Summer 2010	Regional carbon trajectories are currently being integrated into the Regional Econometric Model and will form a key aspect of future scenario development. This in turn will inform the policy choices that will be included within the YHS. The scenarios for which carbon trajectories will be produced are still to be finalized, however the results of the modeling should be available in Summer 2010

PRIORITY AREA: BUILT ENVIRONMENT

Sponsor: Carole Cozens, Local Government Yorkshire & Humber.

Approximately 46% of the UK's total carbon emissions are generated from the operation of our building stock. Encouraging the adoption of sustainable building design standards, maintenance and refurbishment can help deliver homes that use far less energy, provide affordable warmth, and help reduce greenhouse gas emissions.

A key driver for improved design standards will be through enhanced energy efficiency of new building stock, with the aim of all new housing being 'zero carbon' from 2016. However, the majority of housing stock in Yorkshire & Humber that will be around in 2050 had already been built – so retrofitting and refurbishment will play a key part in reducing carbon emissions. Better understanding of carbon emissions modeling tools to determine the impacts of housing policy will help to determine future resource allocation.

The past 12 months has seen considerable change across the sector with a lot of activities being mainstreamed within new organisational structures. Therefore, this priority within the overall plan will need to reflect these and further changes over the coming months.

Outcomes:

- To establish a clear regional pathway so that the region becomes a model for low carbon housing.
- High level leadership and awareness of the need for housing sector related action to reduce green house gas emissions and adapt to climate change.
- Significantly improved communications between partners on current and planned activities to aid coordination, collaboration and best use of resources.
- Improved awareness, skills and support on retro-fitting existing homes and also new technologies (such as renewable energy infrastructure), design and construction.

Action	Lead partners	Timescales	Progress
Build relationship with the Regeneration & Housing Board through a report every six	LGYH with support from partners.	Six monthly, from summer 2010.	Manager from the Regeneration & Housing board sponsors this priority. Paper to RRHB on 11 June on climate change

Action	Lead partners	Timescales	Progress
months on climate change action, issues and risks.			key issues.
Boost regional skills and expertise in sustainable design and construction, in particular through maximising opportunities through existing skills initiatives.	Homes & Communities Agency 'Academy' with Integreat Yorkshire and Envirowise.	2010 - 2013	New guide launched by Envirowise
Facilitate dialogue between funders and small business and organisations to help drive forward use of microgeneration technologies	Yorkshire Forward Microgeneration Partnership National Energy Action	Summer 2010	<ul style="list-style-type: none"> • This is a new action

PRIORITY AREA: TRANSPORT

Sponsor: Stuart Clewlow, Yorkshire Forward.

The transport sector is a major source of green house gas emissions – and this continues to rise. It is therefore vital that the region investigates and delivers ways of moving towards a low carbon transport system. With large parts of the region being rural, travel is still heavily reliant on car use. Additionally, the forthcoming reduction on public spending will mean there is less money for large scale infrastructure projects and more focus on lower cost ‘softer’ measures such as behaviour change.

Outcomes:

- Implementation of a wide range of interventions to reduce the carbon impact of transport
- Identifying interventions to maximise the carbon efficiency of all modes of transport as a result of undertaking regional ‘Delivering a Sustainable Transport System’ (DaSTS) studies.
- A sector better informed on risk from a changing climate and that can prepare better and prioritise actions.
- Effective coordination, collaboration and sharing of best practice between the across the public sector and with private sector delivery organisations to reduce carbon emissions from transport.

Action	Lead partners	Timescales	Progress
Work towards a low carbon and sustainable transport system in Yorkshire and Humber by implementing a wide range of measures	Regional Transport Advisory Board, Yorkshire Forward, Integrated Transport Authorities, Local Authorities, Highways Agency and Network Rail and public transport operators	Ongoing	<ul style="list-style-type: none"> • Mixed progress across the region. Measurement of the impact has only been undertaken for a limited number of interventions
Delivery of DaSTS studies: - Leeds City Region (LCR) Connectivity	Yorkshire Forward has overall responsibility with GOYH, LGYH, LCR and SCR as key partners.	November 2009 – June 2011	<ul style="list-style-type: none"> • All the studies are progressing well. Carbon reduction is a key factor in decision making in both the connectivity studies.

Action	Lead partners	Timescales	Progress
<ul style="list-style-type: none"> - Sheffield City Region (SCR) Connectivity - Urban Dynamic Model Development - Land Use and Accessibility 	<p>The two connectivity studies are being run by LCR and SCR. The other studies being run by YF.</p> <p>All have funding from Department for Transport</p>		<ul style="list-style-type: none"> • The LCR study has produced a baseline report, developed its modelling capability and the long list of potential interventions has been through a high level sift to give a 'medium' list. • The SCR study has produced a draft baseline report and has begun sifting the long list of possible interventions. • The regional Urban Dynamic Model is being updated so that it can be used to assess transport the impact of transport interventions and potential land use allocation. A key part of the upgrade is the improvement of CO₂ emission calculations. • The Land Use and Accessibility study is preparing a data depository of public transport services and potential land use allocations together with a tool for assessing PT accessibility to these sites. Public transport data has all been collected and some progress has been made in obtaining potential land use allocations. • The connectivity studies will feed into a regional intervention strategy for DfT and other funding. The UDM will be used to assess the impact of the interventions. • Outputs from all the studies will feed into

Action	Lead partners	Timescales	Progress
			the development of the Yorkshire and Humber Strategy.
Mapping of sub-regional and local governance to better understand action on climate change in the transport sector.	LGYH (CC Coordinator) with support from Yorkshire Forward and the Transport Advisory Board.	June 2010	<ul style="list-style-type: none"> • This is a new action.
Targeted guidance, briefings and case studies drawn from the Regional Adaptation Study and UKCP09 to support resilience awareness and planning.	Yorkshire Forward and Climate Change Partnership Adaptation Sub-Group, with support from LGYH officer members and GOYH.	March 2011	<ul style="list-style-type: none"> • This is a new action.
Establish a suitable forum to capture activity, share best practice and identify areas of collaboration on reducing emissions across all sectors involved in transport.	Climate Change Partnership and Transport Advisory Board.	November 2010	<ul style="list-style-type: none"> • This is a new action.

PRIORITY AREA: HEALTH SERVICES

Sponsor: Roger French, Strategic Health Authority.

Recent national and regional major weather events greatly raised the importance in considering the health impacts of climate change. There is a key role the health and resilience sectors can play in preparing for these impacts whilst working with other key sectors. The Health Protection Agency* has already outlined the key impacts and how agencies need to respond – but these actions are mostly longer term than the scope of this plan. The shorter term actions, including those needed to prepare for future challenges are given below.

The health sector is keen to play its part in reducing emissions and needs to follow actions outlined under Priority Area 2 (Built Environment) and Priority Area 5 (Business). The actions to reduce the impacts of climate change can also have benefits to the health of the population, such as increased cycling and walking and improving green spaces and planting trees. This can be positively utilised in selling the benefits of action on climate change.

Outcomes:

- Results from research projects circulated promptly to key stakeholders, with responses tailored to needs of the population.
- Annual Community Risk review to take account of UKCP09 scenarios and other developing regional and sub-region data sources.
- Any behaviour change communications tools that support Your Climate to include health impact and links to lifestyle and well-being.
- Support continuous development of carbon reduction projects across the health sector.

Action	Lead partners	Timescales	Progress
Regional NHS Carbon Reduction Steering Group Established	Strategic Health Authority	2009 - 10	Group established. Links established with Climate Change Partnership. Events held for trust 'carbon leads'. New group 'Climate Change Management

Action	Lead partners	Timescales	Progress
			Group' now has requirement to track progress in the region.
Carbon Reduction Plans produced for each NHS Trust	NHS Trusts, through the Regional NHS Carbon Reduction Steering Group	2009-10	Partnership working with CO2 Sense Yorkshire. Workstreams established: <ul style="list-style-type: none"> • Energy management • Procurement • Transport • Waste Carbon Management Framework now established
Ensure future research is shared in the region to help assess risk and necessary adaptive actions for vulnerable groups.	Climate Change Partnership Board members, through Directors of Public Health	Ongoing, reviewed annually.	
Regional and local resilience fora to keep risk under review using climate impact modelling, including direct impacts such as disease and air pollution.	Health Protection Authority		
Establish joint working with local government on carbon reduction	Strategic Health Authority and Local Government Yorkshire & Humber	2010-11	Proposal to host joint NHS / LA workshop on carbon reduction in the summer 2010.
Behaviour change work driven	Climate Change Partnership –	2009-10	Links made between Department of Health

Action	Lead partners	Timescales	Progress
by the Climate Change Partnership picks up links to health and well-being.	working with Citizen Engagement workstream	2010-11	and the Local Area Climate Change Network – utilising lessons learned from the health sector on changing behaviours. Climate Change Management Group to consider recent West Midlands report 'Health Effects of Climate Change in the West Midlands'.

Are there any longer term targets we can use?

PRIORITY AREA: BUSINESS

Sponsor: Joanne Pollard, CO2 Sense

Our region has a legacy of heavy industry which means our regional emissions are higher than average. Statutory carbon budgets mean that we will have to reduce emissions substantially in order to play our part in meeting the national targets. New regulatory regimes including renewables targets, CRC and carbon trading will all impact on businesses. However this presents opportunities as well – for new products and services, as well as new grants and funding mechanisms. Our region is uniquely placed to deliver Carbon Capture and Storage, and our advanced manufacturing base combined with our many universities means we could play an important role in developing new technologies. However, the vast majority of our businesses are SMEs – a hard-to-engage sector which will nonetheless have a major role to play in delivering carbon cuts.

Action	Lead partners	Timescales	Progress
Deliver practical support for businesses to improve their resource efficiency, and increase business use of carbon footprinting	Strategic lead from YF with delivery through CO2 Sense, Business Link, MAS, and national delivery partners (WRAP, Carbon Trust, Envirowise etc)	Ongoing	<ul style="list-style-type: none"> • CO2Sense Resource Efficiency programme • Partnership development with Carbon Trust • BRIEG programme • Support for sub regional green business clubs and regional chambers.
Establish high level business leadership group of Execs from major regional companies in order to increase business awareness of the benefits of developing low carbon products and services	CO2Sense, BiTC	Ongoing	<ul style="list-style-type: none"> • Co2Sense Leadership training programme developed with PwC • Regional low carbon summit held at Drax in conjunction with YF, PwC and CBI – March 10. • BITC programme successfully delivered – leadership group and seeing is believing events.
Facilitate the delivery of the	CO2Sense	Ongoing	<ul style="list-style-type: none"> • First spur of pipeline – Hatfield project

Action	Lead partners	Timescales	Progress
Yorkshire and Humber Carbon capture and storage project.			<p>successfully bid for £180m of ERF funding.</p> <ul style="list-style-type: none"> • Yorkshire and Humber designated as Low Carbon Economic area for Carbon Capture and Storage in March 10. • Yorkshire and Humber CCS project profiled on Newsnight – Feb 10.
Enable Business to plan for climate change adaptation	CO2Sense/ Climate Change Partnership	Ongoing	<ul style="list-style-type: none"> • Adaptation risks within regional supply chain – study conducted with Acclimatise, CO2Sense and Asda. • Adaptation sessions delivered at Low Carbon best practice event in Harrogate in Dec 09.
Support businesses to deploy renewable energy	Co2 Sense, YF	Ongoing	<ul style="list-style-type: none"> • Wood fuel infrastructure programme • Hydro scheme at Settle • Wood Pellet Mill • Renewable Energy programme including investments in Valley Wind, Emley AD, Bioflame and Greenfrog
Supporting Businesses around new regulatory/ incentive and funding regimes	CO2Sense	Ongoing	<ul style="list-style-type: none"> • Carbon trading Yorkshire – regional learning and best practice collaboration in advance of CRC • CRC events and tailored support • ROC support • Regional awareness around Carbon Trust interest free loans and Salix funding

Action	Lead partners	Timescales	Progress
Ensure recommendations from RAS are incorporated into key regional documents	Adaptation study team with support from CC Co-ordinator	Ongoing	<ul style="list-style-type: none"> • RAS has been submitted to IRS evidence base. • Further work needed to raise awareness of the study within sector teams at YF and within other organisations

PRIORITY AREA: LAND MANAGEMENT

Sponsor: Gail Hammond, Environment Agency

Climate change adds to the pressures on the use and management of land in Yorkshire and Humber Region. We need to balance the requirements for food, biodiversity, flooding, forestry, wetlands, bio-fuels, development, people and the economy. The way the land is managed will be significant in providing resilience to climate change and contribute to minimising greenhouse gas emissions. We need to build on the activity already occurring in this sector in response to climate change issues. The wide range of activities and the number of organisations involved adds to the complexity of the issues for this sector. Current land management practices can be enhanced by a coordinated approach which maximises the resources of the Region with the aim of ensuring climate change adaptation and mitigation.

Outcomes:

- Provide a coordinated and coherent approach to key land management plans and activities, with the aim of optimising land management activities to address climate change.
- Report on the current picture of land management in the Region, with respect to climate change adaptation and mitigation.
- Enable practitioners to make links between their own and other organisations' activities and encourages better coordination.
- Land management practices with regard to Climate Change are improved in the region.
- Barriers to climate change orientated land management are highlighted and action taken to resolve issues.
- Monitor and report on progress

Action	Lead partners	Timescales	Progress
Regional Climate Change Land Management Forum (YHCCLM Forum) established	Environment Agency, Forestry Commission, Natural England Regional Climate Change Coordinator	May 2010	<ul style="list-style-type: none">• First meeting of Forum May 2010 to be chaired by David Dangerfield completed.• Delays in formation of Forum due to changes in Lead partner structure.• Formation of a Task Group for the Forum comprising of lead partners

Action	Lead partners	Timescales	Progress
Produce a regional overview of the current climate change land management.	Y&H Climate Change Land Management Forum Task Group (YHCCLM Task Group)	April 2010	<ul style="list-style-type: none"> • Due end April 2010
Provide a framework for sharing good practice knowledge and information.	YHCCLM Task Group and Forum	Ongoing	
Produce Regional climate change land management guidance for Region	YHCCLM Task Group and Forum	October 2010	
Identify barriers to land management climate change issues and take forward actions resolve those issues	YHCCLM Task Group and Forum	April 2011	
Monitoring and reporting progress on Forum and key issues	YHCCLM Task Group and Forum	Ongoing	

* All actions include both mitigation and adaptation issues

PRIORITY AREA: CITIZEN ENGAGEMENT

Sponsor: Tim Godson, Government Office for Yorkshire and The Humber

A key factor in delivering both carbon emission reduction, protecting resources and developing resilience to a changing climate is changing the behaviours of individuals, communities, businesses and the public sector. Through their work on pro-environmental behaviour*, Defra produced a “model of behaviour change” that can be applied to policy making, where the intention is to help people make better choices. For further information see: <http://www.defra.gov.uk/evidence/social/behaviour/index.htm>

DECC’s national “Act on CO2” campaign raises awareness of carbon emissions and provides advice on saving energy. Run by the Energy Saving Trust, the “Act on CO2” advice line provides free advice to all citizens on energy efficiency, microgeneration and renewable energy, water efficiency and waste reduction. For further information see: <http://actonco2.direct.gov.uk/actonco2/home.html>

In Yorkshire and The Humber, public and private organisations recognise the significance of this priority area in tackling climate change both locally and regionally. The plan is aimed at local and regional bodies but the Partnership want to ensure that information is accessible to help support all individuals on how they can take their own steps to address climate change.

Outcomes:

- Co-ordinated campaigns help regional and local bodies bring about changes in behaviour that reduce emissions, protect resources and improve resilience
- Production of a regionally/ locally focused guide to share examples of best practice and case studies on behaviour change
- Future generations aware of the need and are informed on how to make pro-environmental behaviour choices
- Yorkshire and Humber citizens better able to make pro-environmental choices and local communities able to respond
- Pro-environmental behaviours promoted that reduce carbon emissions in the region

Action	Lead partners	Timescales	Progress
<p>Establish a group to look at the behaviours to be addressed and the level to address them i.e. look at national, regional and/or local level and examine how programmes of activity can be taken forward in Yorkshire and Humber</p> <ul style="list-style-type: none"> • Need to support current local and sub-regional work, build on examples such as the Care4Air work in South Yorkshire • Utilise businesses as influencers of customer choice as employers of staff, use customers to influence services and products available 	<p>GOYH</p> <p>Local Authorities</p> <p>VCS sector - e.g. FoE/ WWF/ YHREF/ Faith sector</p> <p>Business representatives such as BITC</p>	<p>Completed main requirement by March 2010; Developed two new actions for next steps on this (see below)</p>	<ul style="list-style-type: none"> • In May 2009 held small focus group with representatives from Energy Saving Trust, Local Authorities, Local Strategic Partnerships and Sustainable Schools Partners' Network. The group recognised that a better understanding of regional activity was needed before further action could be proposed. • In January 2010 held Citizen Engagement-Changing Behaviours workshop to consider the citizen engagement-changing behaviours agenda on climate change in the region - exploring the work already being taken forward by organisations, and identifying potential opportunities for further development. Attendees included representatives from the Climate Change Partnership, YoHr Space Climate Change Board, Energy Saving Trust, Local Authorities, Local Strategic Partnerships, Environment Agency, Department of Health and Friends of the Earth. The outcomes from the day are informing work going forward in local areas, collaboration through YoHr Space, and further development of the regional climate change plan.
<p>Use intelligence and evidence already gathered from local</p>	<ul style="list-style-type: none"> • YoHr Space Climate Change Board 	<p>March 2011</p>	

Action	Lead partners	Timescales	Progress
area to define opportunities and inform areas of support on the changing behaviours/ citizen engagement agenda within the region to reduce emissions, protect resources and improve resilience	<ul style="list-style-type: none"> Local Authorities Local Strategic Partnerships 		
<p>Clearer access to current information on national, regional and local campaigns and activity on behaviour change and opportunities to share best practice within the region. Including:</p> <ul style="list-style-type: none"> CCP website (Your Climate) to provide links to enable citizens to gain information on how to take positive action 	<ul style="list-style-type: none"> LGYH/ GOYH YoHr Space Climate Change Board YHREF Hub Energy Saving Trust Local Authorities Local Strategic Partnerships Voluntary and Community sector Business representatives 	Annual Progress – report March 2011	
Use schools as excellent places to encourage environmental good practice and so that young people sell the benefits	GOYH/ Sustainable Schools – LA/ LEA/ Education for sustainable	Initial work completed by March 2010; Ongoing	Regional Improvement and Efficiency Partnership (RIEP) funded programme on sustainable schools operating in three of the sub-regions. For further information see:

Action	Lead partners	Timescales	Progress
<p>to their families to encourage in the home.</p> <p>Co-ordinate activity between the Climate Change Partnership and Sustainable Schools work.</p>	development	programme of activity – Annual progress	<p>http://www.yohrspace.org.uk/content/climate-change-0</p> <p>Ongoing activity in the region through the Yorkshire and Humber Sustainable Schools Partners' Network. For example a joint North East/ Y&H workshop was held on 22nd March 2010 looking at "Sustainable Schools: How can Local Authorities support schools better". For further information on network and regional activity see:</p> <p>http://www.teachernet.gov.uk/sustainableschools/about/about_detail.cfm?levelselected=5&id=227</p>
<p>CCP website (Your Climate) to provide links to enable citizens to gain information on how to gain information on how to take positive action</p> <ul style="list-style-type: none"> To provide links to existing websites and information at the national, regional and local level 	GOYH/ YHREF Hub		<p>Your Climate was updated for the climate change plan launch event in March 2009. The website is currently being upgraded to new server with new format and content to include:</p> <ul style="list-style-type: none"> Progress updates on the regional action plan Mitigation resources Adaptation resources Local authorities section All meeting papers / presentation
<p>Take forward annual programmes of co-ordinated activity in Yorkshire and Humber to support the other</p>	Contact with other groups where cuts across specialist areas e.g. Waste Regional	Ongoing programme of activity - Annual	Continued liaison with the Energy Savings Trust to raise awareness of national campaigns

Action	Lead partners	Timescales	Progress
<p>areas for action in the CCP. Including:</p> <ul style="list-style-type: none"> Activities to tackle a range of waste prevention behaviours amongst the general public and business, with the overall aim of reducing waste to landfill and increasing Local Authority efficiency. 	<p>Advisory Group on waste minimisation</p> <p>GOYH/YHWPP Board</p>	<p>Progress</p>	<p>The Yorkshire and Humber Waste Prevention Programme (YHWPP) works with 22 Local Authorities (LA) across the region to tackle a number of waste prevention behaviours. The priorities for 2009 – 2010 are Love Food Hate Waste (LFHW) and Business Waste.</p> <p>The Regional Improvement and Efficiency Programme (RIEP) has provided funding for the programme priorities for 2009-2010. Including the Love Food Hate Waste (LFHW) project which develops the campaign in the 22 Local Authority areas in the region raising awareness of the issues around food waste and ultimately seeking to divert tonnage from the residual waste stream.</p> <p>http://www.lovefoodhatewaste.com/yorkandnorthyorks</p>
<p>Develop work on adaptation behaviours including developing green space and planting appropriate tree species, not covering gardens with hard services, and signing up to alerts</p>			<p>The regional UK Climate Change Projections workshops in September 2009, attended by a wide range of representatives - from local authorities to universities to business - highlighted the issues surrounding adaptation and behaviours.</p>

To Note: * Diagram of Defra headline behaviour goals still to be included, for reference