

Climate Change and Environment

Definition

NI 188: Planning to Adapt to Climate Change			
Is data provided by the LA or a local partner?	Y	Is this an existing indicator?	N
Rationale	<p>To ensure local authority preparedness to manage risks to service delivery, the public, local communities, local infrastructure, businesses and the natural environment from a changing climate, and to make the most of new opportunities. The indicator measures progress on assessing and managing climate risks and opportunities, and incorporating appropriate action into local authority and partners' strategic planning.</p> <p>The impacts might include increases in flooding, temperature, drought and extreme weather events. These could create risks and opportunities such as: impacts to transport infrastructure from melting roads or buckling rails, increases in tourism, increased damage to buildings from storms, impacts on local ecosystems and biodiversity, scope to grow new crops, changing patterns of disease, impacts on planning and the local economy and public health.</p> <p>Examples of the processes, tools and evidence that could be used to reach the various levels have been included. However, this list is not exhaustive and any appropriate methodology can be used.</p>		
Definition	<p>Local authorities should report the level of preparedness they have reached against the 5 levels of performance, graded 0 to 4. The higher the number, the better the performance.</p> <p>The criteria for achievement of each of the levels is detailed below.</p> <p>Level 0: Baseline:</p> <p>The Authority has begun the process of assessing the potential threats and opportunities across its estate and services (for example, flood and coastal resilience plans, emergency planning, community risk registers/strategies etc) and has identified and agreed the next steps to build on that assessment in a systematic and coordinated way.</p> <p>Examples of evidence:</p> <ul style="list-style-type: none"> ● The Authority has identified a lead official to identify and provide advice to service/department heads on potential impacts of future climate change on its functions ● The Authority has undertaken an audit of existing relevant risk registers and action plans in place (eg community risk register) ● The Authority has established a process for actions it needs to take to 		

	meet higher levels
Definition (continued)	<p>Level 1: Public commitment and prioritised risk-based assessment: The Authority has made a public commitment to identify and manage climate related risk. It has undertaken a local risk-based assessment of significant vulnerabilities and opportunities to weather and climate, both now and in the future. It can demonstrate a sound understanding of those not yet addressed in existing strategies and actions (e.g. in land use planning documents, service delivery plans, flood and coastal resilience plans, emergency planning, community risk registers/strategies etc). It has communicated these potential vulnerabilities and opportunities to department/service heads and other local partners and has set out the next steps in addressing them.</p> <p>Examples of evidence:</p> <ul style="list-style-type: none"> • The authority and partners have made a public commitment to manage climate risks e.g. signed up to the Nottingham Declaration or an equivalent • A Local Climate Impacts Profile or equivalent process is ongoing • Initial assessment produced using the UKCIP scenarios • Department/service heads facing significant vulnerabilities and opportunities have an understanding of the issues, with evidence of actions already in place to address these • Evidence of working in partnership and pooling of resources and expertise across sectors, areas and council tiers where applicable <p>Level 2: Comprehensive risk-based assessment and prioritised action in some areas: The Authority has undertaken a comprehensive risk based assessment of vulnerabilities to weather and climate, both now and in the future, and has identified priority risks for its services. It has identified the most effective adaptive responses and has started incorporating these in council strategies, plans, partnerships and operations (such as planning, flood management, economic development, social care, services for children, transport etc). It has begun implementing appropriate adaptive responses in some priority areas. In its role as a community leader the council has started working with its LSP encouraging identification of major weather and climate vulnerabilities and opportunities that affect the delivery of the LSP's objectives.</p> <p>Examples of evidence:</p> <ul style="list-style-type: none"> • Comprehensive risk assessment produced (for example using the UKCIP method) • Nottingham Declaration accreditation • Council Members and department and service heads have a detailed understanding of weather and climate risk in all vulnerable areas identified in risk assessment and actions taken in priority areas. • Documents like Local Development Frameworks include climate change adaptation • Local adaptation partnership established • LSP partners are aware of actions being taken by the council, feel

	<p>engaged in the process and confirm they have started to identify weather and climate risk that affect the delivery of their own objectives.</p>		
<p>Definition (continued)</p>	<p>Level 3: Comprehensive action plan and prioritised action in all priority areas:</p> <p>The Authority has embedded climate impacts and risks across council decision making. It has developed a comprehensive adaptation action plan to deliver the necessary steps to achieve the existing objectives set out in council strategies, plans, investment decisions and partnership arrangements in light of projected climate change and is implementing appropriate adaptive responses in all priority areas. This includes leadership and support for LSPs in taking a risk based approach to managing major weather and climate vulnerabilities/opportunities across the wider local authority area.</p> <p>Examples of evidence</p> <ul style="list-style-type: none"> • Action plan developed and published • Nottingham Declaration accreditation at a higher level • Detailed understanding of risk and action taken to embed relevant adaptation response in council strategies, plans, partnerships and operations by all department/service heads where weather and climate risks have been identified. • Initial cost analysis undertaken and potential sources of funding identified for major vulnerabilities • LSPs feel fully engaged and action plan includes commitment from authority and LSP • Pooling of skills, knowledge and resource across LSP • Consulted with authorities responsible for climate change management and others who can provide advice on good practice e.g. Environment Agency, Natural England, Defra. <p>Level 4: Implementation, monitoring and continuous review: The Authority and LSP are implementing the comprehensive adaptation action plan across the local authority area, and there is a robust process for regular and continual monitoring and review to ensure progress with each measure and updating of objectives. The Authority and LSP are taking appropriate adaptive responses.</p> <p>Examples of evidence:</p> <ul style="list-style-type: none"> • Clear and robust continuous monitoring and review system in place • Outputs from the review and monitoring process are ploughed back into the action plan and other relevant council and LSP strategies 		
<p>Formula</p>	<p>N/A</p>		
<p>Worked example</p>	<p>LA rates performance against the 5 levels of</p>	<p>Good performance</p>	<p>Year on year improvement</p>

	performance		
Collection interval	Annual (Apr – Mar)	Data Source	Local authority assessment against the criteria
Return Format	Number (0-4)	Decimal Places	Zero
Reporting organisation	Local authority.		
Spatial level	Single tier, county council and district		
Further Guidance	<p>Good quality performance can be typified by assessments and plans which seek to include local authority strategic partners throughout the stages.</p> <p>Sources of guidance, tools and resources which can assist with undertaking the assessments required for levels 0-4 are outlined below. Each contains several useful processes and tools which can be used to achieve each of the stages. However, any appropriate methodology can be used to achieve the stages of this indicator.</p> <p>Guidance on how to undertake climate risk assessments and action plan processes is available in the Nottingham Declaration Action Pack. The pack uses an overall 5 step process as a guide to developing an adaptation action plan. Much of this guidance will relate directly to the tasks in levels 0-4 of the indicator www.nottinghamdeclaration.org.uk</p> <p>In addition to the information provided here, other resources are available to support local authority work in this area:</p> <p>The UK Climate Impacts Programme (UKCIP) www.ukcip.org.uk has a range of tools and resources that will assist in achieving the level 0-4 tasks.</p> <p>The production of a Local Climate Impacts Profile (LCLIP) could assist with defining the local climate vulnerabilities and risks and increasing awareness amongst officers and members.</p> <p>Local Authorities should seek additional guidance from statutory authorities, such as the Environment Agency and Natural England, on issues such as flooding, water resources, coastal management, waste, biodiversity, landscape and the natural environment.</p>		

Systems	What systems are in place to monitor/ measure the indicator? The Lead Officers Group and the County Theme Group.
	Have the systems been validated to ensure that the right information is being collected according to the definition? No
	What systems are in place to collect and disseminate the corporate figures?

	<p>None</p> <p>Can the information be reported within 2 weeks of the period end? If not, when will it be available?</p> <p>All available information can be reported on.</p>
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Key Officers	Who is responsible for the indicator.....		
	Please give full contact details for the key officers involved in compilation of this indicators/ target		
	Name	Job Title	Phone number
	Jacky Lawrence	Strategic Energy Manager	01926 73 6324

Target Setting								
Year	Baseline	2008/09 Target	2009/10 Target	2010/11 Target				
Adapting to Climate Change	No assessment of climate risks 0	0	1	3				
Rationale for Targets Set		<p>Level 1 is the level that local authorities that do not have NI 188 as a target are expected to achieve. Warwickshire's local authorities aspire to be ranked as good and have therefore set themselves a NI 188 target of level 3. By working with Partners to develop a risk based approach to managing the major weather and climate vulnerabilities and opportunities across the community we will ensure all are fully engaged and achieve our target.</p>						

Data Quality Arrangements	<p>Please explain below –</p> <p>How the information is/ will be collected to meet the definition?</p> <ol style="list-style-type: none"> 1. Through production of the Warwickshire Climate Change Adaptation Report. 2. Through membership of the lead officers delivery group for the LAA climate change and environment block. 3. Through membership of the county theme group for the LAA climate change and environment block. 4. Through communications with the PSB. 5. Through consultation.
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6. Through being involved in any future UKCIP / GOWM NI 188 workshops.
7. Through using tools and resources as they become available.
8. Through membership of the Carbon Trust LA Energy Managers Network.
9. A Student from the University of Warwick has completed a 12 week research project with WCC and all information gathered saved electronically.
10. Interviews have taken place with a number of people both in WCC and other LA's to gather relevant data.
11. Information still required will be collected following e-mail or phone call communications or meetings.
12. The new Met Office climate change adaptation newsletter will be received.
13. By working with Tony Crompton at the GOWM.
14. By working with the Coventry Weather Centre.
15. Through events, the first one was on August 15th 2008.
16. Through production of the Warwickshire Climate Impact Profile.
17. An Adaptation working group will be formed to include LAA partners and other businesses / organisations.
18. Development of a risk assessment based climate change adaptation action plan for each LAA partner.

Are guidance notes available so that colleagues could collect/ submit the data?

No.

What checks and controls are/ will be in place to ensure accuracy of data collection?

None.
Peer Review / consultation.

What processes are/ will be in place to review the indicator and targets and how often does/ will this take place?

Meeting of the Lead Officers Delivery Group – every quarter?
Meetings of the County Theme Group – every quarter?

Are working papers available, if they were to be requested for audit purposes?

Minutes of the Group meetings are available.
The Warwickshire Climate Change Partnership web site contains many publications etc.

	Draft climate vulnerability and risk assessment papers available.
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Sign Off	Alan Franks, NBBC / Ian Davis, RBC
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Business Planning	A detailed delivery plan has been produced that list the activities, resources and organisations involved in the delivery of this indicator – see below
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Please ensure all sections of this form have been completed prior to returning it to the LAA Team.

WARWICKSHIRE's LAA NI 188 (Adapting To Climate Change) DELIVERY PLAN

Block	Climate Change & the Environment
Vision for the Block	“An improved environment for Warwickshire which respects biodiversity and the limits of the planet’s natural resources, while preserving them for the benefit of future generations”
NI: 188	Planning to Adapt to Climate Change
Draft Priority - mission	" to ensure that Warwickshire is resilient to the impacts of expected changes in climate, organisations have robust strategic plans in place, they have the freedom to innovate for business as unusual and a strong sense of direction for their adaptation actions" “to improve flood mitigation measures and improve drainage"

Baseline performance Level	Target improved performance Year 1	Target improved performance Year 2	Target improved performance Year 3
0	0	1	3

Key Areas for Improvement	Activity	By whom? Name/organisation	Milestones	Target Date for milestone
<ul style="list-style-type: none"> Improve access to information on adaptation. Shape and lead on the Climate Change and Environment agenda in Warwickshire. Understand the impacts of extreme weather events in Warwickshire over the last five years on Public Sector service delivery. Create a well funded Adaptation Action Plan Implementation of the Adaptation Action Plan. Share experience with neighbouring LA's). 	<p>Activity 1 Pull together existing documentation.</p>	<p>Jacky Lawrence WCC University of Warwick WBS</p>	<p>Level 0 Masters student research project undertaken and presentation prepared for first event (completed)</p>	<p>2008 / 09 August 2008</p>
	<p>Activity 2 Gather evidence of existing adaptation measures in Warwickshire</p>	<p>WCC</p>	<p>Level 0 Warwickshire Climate Change Adaptation Report (completed)</p>	<p>2008 / 09 October 2006 http://www.warwickshire.gov.uk/Web/corporate/pages.nsf/Links/245EAC2B55BC474A80257304005E192D/\$file/Warwickshire+Climate+Change+Adaptation+report.pdf</p>
	<p>Activity 3 All LAA partners to make a public commitment on managing the risks of climate change (e.g. through signing the Nottingham Declaration)</p>	<p>LA Nottingham Declaration sign up WCC (completed) NWBC (completed) NNBC (completed) RBC (completed) WDC (completed)</p> <p>Non-LA Partners in the voluntary Warwickshire Climate Change Partnership (WCCP)</p>	<p>Level 0 (completed) Warwickshire's Climate Change Strategy and Action Plan (including Adaptation)</p>	<p>2008 / 09 August 2006 and updated annually http://www.warwickshire.gov.uk/climatechangepartnership</p>

			made available on the Partnership web site (completed)	
Activity 4 Develop a Local Climate Impacts Profile for Warwickshire	WCC	Level 1	First consultation event and presentation of research (completed)	2009 / 10 August 15 th 2008
			Gather evidence and identify relevant documentation for producing Warwickshire's LCLIP (completed)	August 2008
Activity 5 Communicate vulnerabilities and opportunities to all relevant departmental / service heads	WCC	Level 1	Press release 1 to follow first consultation event (completed)	2009 / 10 August 15 th 2008
			Identify potentially affected services and collate list of potential threats and	October 2008

		opportunities associated with extreme weather events (completed)	
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NOTE:

News of the LCLIP made it onto the front page of WCC's Chief Exec's newsletter to all staff (September 2008).

<http://www.wbs.ac.uk/news/features/2008/09/02/MSOR/Student/Reveals>

(note – increases in temperature should not be expressed as a percentage)

11/10: FIRST (Local Government Association) - MSc student project report on cost of floods
Article mentioning project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

08/10: First Online - MSc student project report on cost of floods
Weather article mentioning project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

30/09: FT Deutschland - MSc student project report on cost of floods
Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

19/09: MBA24 - MSc student project report on cost of floods
Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

18/09: Open PR - MSc student project report on cost of floods
Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.
<http://www.openpr.de/news/243676/Was-der-Klimawandel-die-Kommunen-kostet.html>

12/09: Daily Telegraph - Article on student projects, including that of WBS Master's student Lili Fu on the true cost of regional weather changes.

11/09: Costwold Journal - MSc student project report on cost of floods
Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

04/09: The Stratford Observer - MSc student project report on cost of floods
Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

03/09: Rugby Observer - MSc student project report on cost of floods
 Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.

01/09: BBC News - MSc student project report on cost of floods
 Project report compiled by WBS Master's student Lili Fu on the true cost of regional weather changes.
http://news.bbc.co.uk/1/hi/england/coventry_warwickshire/7592382.stm

01/09 Coventry Telegraph exclusive - 3 pages including front page devoted to Warwickshire LCLIP.

<p>Activity 6 Develop a prioritised adaptation strategy and action plan for all identified vulnerabilities and opportunities</p>	<p>WCC</p>	<p>Level 2</p> <p>Workshop to discuss priorities for Warwickshire at consultation event (completed)</p> <p>Develop draft paperwork for developing a risk assessment based adaptation action plan (completed)</p> <p>Identify relevant La Heads of Service</p> <p>Trial draft paperwork with Heads of</p>	<p>2010</p> <p>August 15th 2008</p> <p>October 2008</p> <p>(Cllr Farnell to ask other Council Leaders for contacts by first week in November)</p> <p>First meeting with Alan Franks (NBBC)</p>
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		Service	November 10th
Activity 7 Each partner to find funding to undertake action in priority areas	WCC	Level 2	2010
Activity 8 Gather evidence that LAA partners have started implementing actions in priority areas	WCC	Level 2	2010
Activity 9 Gather evidence that LAA partners have identified how to manage risks in other areas	WCC	Level 2	2010
Activity 10 Gather evidence of strong partnership working with LSP partners	WCC	Level 2	2010
Activity 11 Define an adaptation action plan for priority areas for each LAA and LSP partner	WCC	Level 3	2011
Activity 12 Define how each LAA and LSP partner are to manage the risk posed by non-priority areas	WCC	Level 3	2011
Activity 13 Embed risks and opportunities across decision making processes and across all service areas and planning	WCC	Level 3	2011
Activity 14 LA's to lead the establishment of an MAA on adaptation	WCC	Level 3	2011

<p>Activity 15 Set up a county-wide adaptation network</p>	<p>WCC</p>	<p>Leadership</p> <p>Identify Lead Officer for NI 188 (completed)</p> <p>Ask WCCP members for EOI (completed)</p> <p>Climate Change & Environment Lead Officers Group forms the initial Adaptation Group (completed)</p>	<p>2009</p> <p>March 2008</p> <p>July 2008</p> <p>2007</p>
<p>Activity 16 Arrange events / conferences / workshops to share knowledge and experience</p>	<p>WCC</p>	<p>Leadership</p> <p>First consultation event (completed)</p>	<p>August 15th 2008</p>
<p>Activity 17 Providing a one-stop shop for all useful links and relevant publications</p>	<p>WCC</p>	<p>Leadership</p>	<p>Continuous updating of the adaptation pages of the WCCP web site http://www.warwickshire.gov.uk/Web/corporate/pages.nsf/links/159D3A276C9F49B680257304004F8D86</p>
<p>Activity 18 Undertaking research on</p>	<p>WCC</p>	<p>Leadership</p>	

	specific issues and disseminating findings			
	Activity 19 Engage private sector and related associations	WCC	Leadership	
	Activity 20 Build adaptation skills capacity within Warwickshire	WCC	Leadership May be included in the Education for Sustainable Development Strategy	Strategy to be developed by 2010
	Activity 21 Promote adaptation beyond the locality (e.g. regionally) through Beacon Council type initiative	WCC	Leadership Presentation made by NI 188 Lead to regional LAA NI 188 group on using risk assessment for identifying adaptation measures	WCC a member of the Sustainability West Midlands adaptation working group. September 30 th
	Activity 22 Work with local communities and small businesses to promote adaptation	WCC	Leadership Flyer for businesses prepared – “How will climate change affect your organisation?”	Given out at business leaders event July 2006

	Activity 23 Link with local universities, research organisations and consultancies to undertake research or other adaptation projects	WCC	Innovation University of Warwick	LCLIP research completed August 2008
	Activity 24 Work with partners to make best use of existing tools. Adapting them to work for circumstances specific to Warwickshire to assess the impacts from climate change and how to manage them	WCC	Innovation Keep a watching brief on the launch of the UKCIP2008 tool	Expected launch Spring 2009
	Activity 25 Arrange community engagement events	WCC	Innovation	
Risk management: Description of any high level risk	Actions to mitigate risk	By whom - lead officer	Timescales	
	Workshop to identify adaptation risk and priorities	WCC	15 th August 2008 (completed)	

RESOURCE PLAN

Please provide an assessment of the total costs required to deliver the plan. This is needed to

- illustrate the total investment being made
- identify the relative contribution different partners are aligning
- illustrate the link, where appropriate, to the LAA centrally pooled funding

Financial years:	What is being funded (eg. Staff, buildings, technology, equipment, services)	Capital: £	Revenue: £	'In kind' support: £	Total: £	Source of funding (specify funding stream and organisation receiving the funding)	Funding assured? Y/N
2008/09	Staff –county lead					WCC	Y
	Research Student		£2,000			WCC	Y
	Meetings – venue costs and refreshments		£			WCC	N
	Training events – in-house staff and Members (economic development, construction, highways, biodiversity, rural estates, health, bridges, emergency planning, development, waste)						
	Maintenance of web pages on adaptation						
	Production of materials about Warwickshire’s Local Climate Impact Profile						
2009/10	Staff–county lead					WCC	Y
	Meetings – venue costs and refreshments					WCC	N
	Training events						
	Maintenance of web pages on adaptation						
	Production of materials						

	Opportunity of defra funded demonstration project?	£250,000 to £500,000				Defra (NI 188 lead not given permission by WCC senior management to pursue)	N
2010/11	Staff–county lead					WCC	Y
	Meetings – venue costs and refreshments					WCC	N
	Training events						
	Maintenance of web pages on adaptation						
	Production of materials						
	Consultancy support						

Completed by: Jacky Lawrence

Date: 5th August 2008

Updated 10th November 2008