

NI Adapts Step 5 - Monitoring and Reporting Approach for Climate Adaptation Plans

The following guidance document was requested by the Local Government Climate Action Network (LGCAN) in June 2022, to create more consistency for adaptation measurement and reporting in NI. It will also form part of the <u>NI Adapts</u> framework which is supporting creation of the <u>first adaptation plans in NI councils by 2024</u>. The approach was developed through research on global best practice and discussions with adaptation experts from UK, ROI and 8 LGCAN council leads, with the aim of providing principles and indicators which all councils could commit to using, regardless of whether their eventual plan is standalone or part of an integrated mitigation and adaptation plan. <u>This is not a comprehensive list of principles or indicators</u>, but rather a shared basis on which councils can jointly seek to build adaptation monitoring and reporting. It could also be used to help guide councils on what to report as part of the new Public Reporting Duty under the Climate Change Act (NI) 2022.

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- 1. Proposed approach: pages 2-5
- 2. 'Next Steps' explains how councils could take this approach forward: page 5

Alignment with the Climate Change Committee Assessment Framework

Climate NI has endeavoured to align this approach with the best practice offered by the UK Climate Change Committee, which recently measured the quality of plans and actions in Scotland using the following methodology:¹

Score	High	Medium	Low
Plan Score	Good quality plan: Considers climate change, including a range of scenarios (adaptation planning for inevitable change i.e. a 2°C scenario, consideration of risks for a 4°C scenario) Sets out specific action — not just guidance SMART — specific, measurable goals with timescales Has effective monitoring and evaluation built in Can see links from the plan down to the actions Plans up to date	Medium quality plan: Considers climate change, though possibly vague on what scenarios are included Requires general action – not just guidance Some aspects of being SMART Some monitoring and evaluation Some links to action	Low quality plan: Minimal or no consideration of climate change No firm actions, not SMART No monitoring and evaluation No firm link through to actions Plans not up to date
Risk Management Score	Evidence that risk (vulnerability and exposure) is reducing at an appropriate rate, and/or is in line to meet goals Good evidence of impact of actions on risks	Mixed picture – some evidence of risk being managed, but other areas where progress is lacking Some evidence of impact of actions on risks	Evidence that risk is not reducing or is increasing, o lack of evidence to judge what is happening to risk No evidence that actions are having an impact on risk

Fig.1 UK Climate Change Committee Assessment Framework

¹ Climate Change Committee (2022) *Is Scotland Climate Ready?* Viewed 29/09/22 https://www.theccc.org.uk/wp-content/uploads/2022/03/CCC-Is-Scotland-climate-ready-Final.pdf

How to Use this Document

The following should be considered a working document, and is split into two sections:

- 1. **Principles** A series of 6 high-level standards which represent the approach to a good quality first adaptation plan for a council in NI. Regardless of how each council plan is structured, or what high-level vision and aims they choose, they should commit to these shared standards.
- 2. **Indicators** The specific data, both qualitative and quantitative, which we are asking councils to agree will be measured in their first NI local council adaptation plan. These are split into two sections:
 - <u>Already Gathered/Easily Reported</u> Those for which minimal resource is required and which our research concluded are already gathered, so will either be usable immediately or with small amendments to procedure.
 - <u>Priority New Indicators</u> A series of 4 stretch targets which have commonly featured as some of the major information gaps across NI council vulnerability assessments. These may be simple to develop or require some resource depending on each context, but they would provide vital information on which to build future decisions.

Section 1: Shared Principles

By committing to the following shared principles, your organisation will endeavour to meet the following standards in writing and delivery of its first adaptation plan:

- 1. Periodically review organisational risks and impacts to enhance understanding of both physical and non-physical climate challenges.
- 2. Aim to set SMART² actions, with clear ownership, which link to the priority risks as identified for council, and account for wider Northern Ireland risks where possible.
- 3. Measure a range of indicators (Process, Output and Outcome³) and consider a range of future scenarios where possible (e.g. a 2°C and 4°C world).⁴
- 4. Improve capacity, communications and education to promote behavioural change in officers, elected members and citizens.
- 5. Encourage and actively enable collaboration inside and outside council.
- 6. Integrate adaptation into business processes across council, including financial planning.

Section 2: Indicators

This approach is based on shared knowledge and what is deemed to be appropriate and achievable in the current context for Northern Ireland. The following indicators provide an initial set of existing and possible data, and explains both what type of indicator it is, and what it should help you to understand. This should enable conversations around the importance of data in your organisation, and create a first attempt at a shared regional approach to creating an adaptation baseline. This is not a comprehensive list, and a range of other data will also be useful for adaptation, including information on the floor level of assets, subterranean assets, areas of hard surfaces, as well as a range of vulnerability and adaptive capacity indices over and above those listed below.

² SMART - Specific, Measurable, Achievable, Realistic and, where appropriate, Time-bound.

³ Process relates to governance, output is delivery of an action, outcome is measuring change/impact over time

⁴ For initial information on a range of scenarios for your area, consider https://uk-cri.org/climate Central

Types of Indicators:

Process (Governance): The *delivery of an action - ensuring quality & elaborative decision making to ensure action can occur.*

Output (Delivery): Direct results from the delivery of an action.

Outcome (Impact): A measure of the change that occurs as a result of the action in the short, intermediate or long term.

The Indicators:

The following tables present the indicators, the type of indicator (process, output or outcome), and what the indicators will show/why they should be measured.

By committing to the following shared indicators, your organisation will endeavour to capture the following data for the duration of its first adaptation plan:

Already Gathered/Easily Reported

Indicator	Туре	What will this show?		
Governance and Structure Indicators - Relating to the Shared Principles				
Is there a plan in place by 2024 and are you reporting into	Process	This group of indicators will show		
NI Climate Change Adaptation Programme?		that your organisation has a		
% and range of service areas involved in adaptation	Process	strategic plan to identify and act on		
planning and delivery		climate impacts, with proper senior		
% of risks with actions and a responsible owner at senior	Process	ownership, and regular review and		
level		update of organisational plans and		
Data on future frequency and intensity of Risks collated,	Process	procedures.		
considered and made accessible to staff (e.g. a 2°C and 4°C				
world)		These will also show if your		
% of actions with SMART Targets	Process	organisation is making efforts to		
Climate Risk included in Corporate Risk Register, and	Process	raise awareness, utilising and driving		
appropriate adaptation governance in place with senior		local and regional partnerships and		
staff and Board/Directors e.g. annual review of progress,		importantly, that actions are actually		
quarterly meetings		being delivered and providing		
% Staff Trained in Climate Literacy	Process	tangible impact.		
Is the Plan clearly accessible on the Council website,	Process			
preferably in				
a section that can be found from the homepage?		_		
No. of external delivery partners listed in Adaptation Plan -	Process			
Statutory, Academic, Community/Voluntary and Private				
No. External Audiences Trained by Council Staff or resources	Output			
e.g.				
schools, economic development	a	4		
% actions delivered (or on-track if longer term)	Output	4		
% of actions delivered (or on-track) against highest scoring	Output			
risks		4		
No. of relevant policies and procedures which are updated	Output			
or created				

Operational Indicators - Emergency Response and Prevention				
No. and type of extreme weather events (Flood, Heat, Storm and Cold events with Met Office alerts and/or requiring emergency response)	Output	A baseline for changes to weather events and impacts, and community assistance to understand resource needs and at-risk locations.		
No. of Flood Inspections (Environmental Health)	Output			
No. and value of Flood Payments	Output			
No. of Regional Community Resilience Group (RCRG) Risk	Output			
assessments for communities				
Staff time or Hours? used to undertake Tree Checks				
Operational Indicators - Utilities				
Water Usage	Outcome	A baseline for changes in water and energy use, which can be examined		
Energy Usage	Outcome	against changes in weather events.		

Operational Indicators - Local Development				
No. of applications submitted/granted for development in	Outcome	A baseline for how spatial planning is		
area of flood risk (e.g. fluvial, pluvial and coastal)		accounting for the adaptation		
No. of new (approved since 2022) developments built in area of flood risk	Outcome	requirement in the SPPS. These indicators can be used to help identify		
No. of buildings at-risk (use Heritage 'at-risk' register and flood risk as starting point)	Outcome	areas of vulnerability (see Met Office Heat Service) and council ambition to		
Quality (condition assessment) of designated Conservation Areas	Outcome	future-proof design. For example, overheating risk modelling can use		
No. of dwellings by type (e.g. apartments and terraced)	Outcome	data on types of buildings		
No. developments incorporating Blue and Green Infrastructure	Outcome	and density of developments.		
Average density of approved residential developments	Outcome			
Operational Indicators - Community Planning				
Multiple Deprivation Index	Outcome	A baseline for vulnerability and		
Poverty	Outcome	adaptive capacity in the local		
Population Age	Outcome	community, which informs the level of risk for certain people and places.		

Fig.2 Existing Indicators and their adaptation value

Priority New Indicators

Indicator	Туре	What will this show?
Staff Overtime/staff allowances due to emergency	Outcome	Improved understanding of the real
response (e.g. develop a new code for weather extremes)		financial and time cost of weather
		extremes, to inform business cases.
Assessment and described throughout the control	0.1	I to a second and a second as
Average number of days of service disruption – baseline criteria to include at a minimum:	Outcome	Improved awareness and accurate
		data on disruption to essential functions and services, to inform
No. of estates closures and asset damages,Missed bin collections,		better procedures, maintenance and
		business cases.
 No. of weather-related insurance claims by council. No. of Council events cancelled or postponed due to 		business cuses.
extreme weather conditions		
extreme weather conditions		
GBP investment in adaptation – ('adaptation' is suggested	Output	Provides both a baseline for future
to be defined as any of the following, from a baseline year	2	reporting and monitoring, and also
of 2023):		an improved understanding of what
Green/blue infrastructure like tree planting, flood		adaptation costs and investment
alleviation and SuDS		actually look like; what gaps in
 Community-level flood defences and sandbags 		adaptation spending exist within
Capital Flood Defences and catchment alleviation		your organisation and where
projects (including peatland restoration, upgrade		priorities and opportunities may exist
of dams and reservoirs in response to risk		to improve engagement, alignment
assessment etc)		and cost-effective decision-making.
 Building/facility/asset upgrade or retrofit which 		
accounts for extremes of flood, storms or heat		
 Cost in changes to maintenance schedules in 		
relation to climate impacts (e.g. longer growing		
season, coastal erosion)		
Grant funding with adaptation as a		
criteria/reporting element		
Adaptation research, and resource for gathering,		
communication and reporting of risk or adaptation actions		
Cost of staff with adaptation in job description		
(across all departments)		
Staff overtime and other council costs for		
emergency response to weather events		
Education, guidance and awareness programmes		
on adaptation (internal and external)		
Redesign or development of finance (e.g.		
altered forms of insurance such as		
parametrics)		
Feedback on change in capacity/understanding due to the	Output/	Improved understanding of the
<i>plan</i> e.g. Survey of council staff or other community groups	Outcome	impact and usability of the plan and
on baseline and perceived changes due to the plan		its communication, to inform future
	heir adaptation	campaigns.

Fig.3 Priority New Indicators and their adaptation value

Next Steps

Climate NI has developed this guidance at a time when the majority of councils in NI are developing their first adaptation action plans. This is the best time to integrate the principles and indicators on pages 2-5 of this document, and should provide a more consistent basis for monitoring in councils across the region. There are significant benefits to signing up to this approach, as it makes best use of current data and resource, defines priority data gaps which act as barriers to decision-making, aligns with current best practice on adaptation reporting and will create a solid basis for more detailed future risk assessment for both councils and their wider region, as well as streamlining returns to initiatives such as the forthcoming public body reporting regulations under the Climate Change Act (NI) 2022. Councils would show a model of regional cooperation on adaptation monitoring and reporting, and make it easier to collaborate, driving towards shared objectives.

In discussion with LGCAN members, and in respect of the differing governance structures in councils, the next step for this guidance is for LGCAN representatives to get agreement and commitment from senior leaders to undertake this approach. Some of the indicators above may require additional resource to gather, and it is a discussion for each organisation to understand how best to undertake this work.

<u>Action:</u> LGCAN members should seek to get signoff at the appropriate level within their organisation, and provide a return by letter or email to Climate Northern Ireland indicating their intention to use the principles and indicators outlined, whether in a standalone adaptation plan or to inform adaptation as part of a joint 'climate action' or sustainability plan.

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