



**Civil Society and Local Government Adapts:
A new programme for Northern Ireland**

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Climate

Northern Ireland

Aims to increase understanding of **climate change** impacts and risks within Northern Ireland and promote the **adaptation** actions necessary to address them



- Climate change adaptation policy development
- Increased awareness of climate risks
- Increased adaptation action

Climate Northern Ireland was set up and funded to help fulfil NI obligations to address climate change



What does **Climate Change** mean for Northern Ireland?

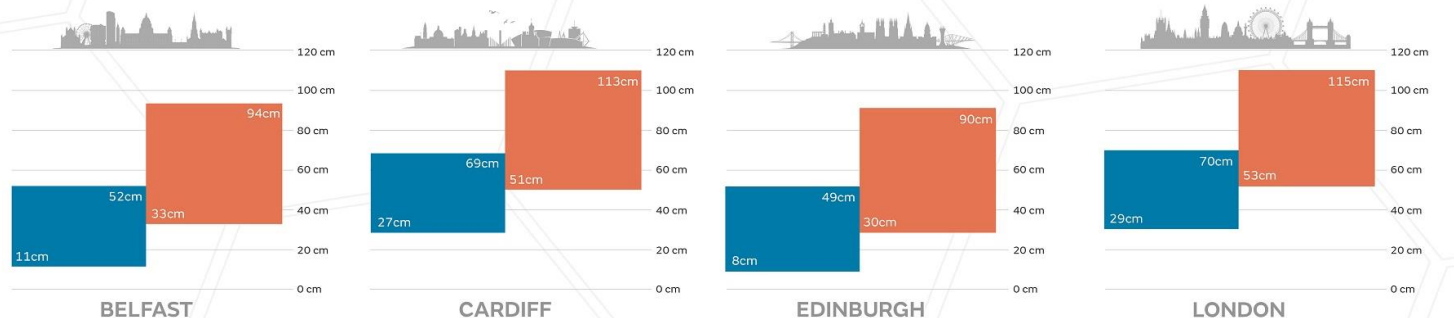
UK Climate Projections 2018



Note: Cold snaps, drier winters and wet summers **will still occur**.
This means we must be prepared for a greater range of extremes year to year

How much will sea levels rise in the UK?

Projected sea level rise projections at four UK capital cities by 2100 relative to 1981-2000. The range for a low emission scenario (blue) and high emission scenario (red) are shown*:
(For reference, UK sea levels have risen by 16 cm since the start of the 20th century.)



*RCP2.6 and RCP8.5 are the low and high emission scenarios used, as in IPCC AR5. The range is very likely (5th-95th percentile).

Responding to Climate Change...

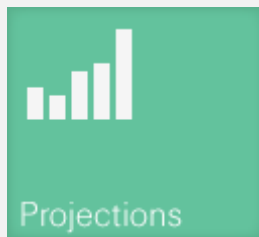
Mitigation - *'to make something less severe, serious or painful'*

Action to reduce greenhouse gas emissions

Adaptation – *'the process of adapting'*

Preparing for the impacts of climate change





Policy: Planning for the impacts of Climate Change in Northern Ireland



PARIS2015
ON CLIMATE CHANGE CONFERENCE
COP21-CMP11

- Keep warming well below 2C
- Prepare for climate change

UK Climate Act (2008)



Risk



Opportunities

Climate Change Risk Assessment (what climate projects mean for society):

The UK Climate Change Act requires the UK government to produce a UK Climate Change Risk Assessment (CCRA) every 5 years



Planning

Northern Ireland Climate Change Adaptation Programme

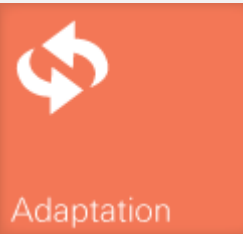
In response to the CCRA (again every five years), the Climate Change Act also requires each of the devolved administrations to produce a Climate Change Adaptation Programme.



UK
2017 | Climate
Change
Risk
Assessment

UK Climate Change Risk Assessment 2017 Evidence Report

Summary for Northern Ireland



5 year cycle



**Northern Ireland Climate
Change Adaptation
Programme 2019-2024**
coming soon...

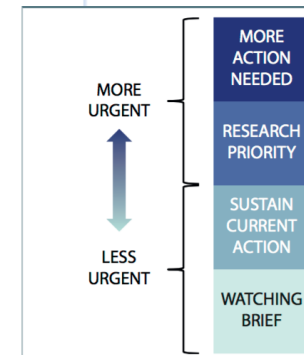


How climate change affects people and communities

The health and wellbeing of the UK population will be affected by climate change. Flooding and heat are the biggest risks, with an increase in pests and diseases also possible. Action is required to deal with these risks, and to seize the opportunities.

Climate change hazards affecting people and the built environment

| | Communities and settlements | Buildings | Health and social care system | Population health |
|-----------|--|---------------------------|--|--|
| Heatwaves | Heatwaves, urban heat island, air pollution | Overheating | Overheating risks to patients, social care, occupational risks, energy use | Heatwave risks to population, mortality, injury etc. |
| Floods | Flooded communities, resilience, relocation, blight/economic effects | Flood damage, damp, mould | Flood risks to NHS assets, service disruption | Flood impact on mental health, deaths and injuries |
| Drought | Risk to water supply, drought | Subsidence | Service disruption | Water supply failure, risks to public health |
| Cold | Risks from extreme weather | Damp homes, cold homes | Service disruption | Cold risks to mortality and morbidity |



Adaptation challenges...

We need to plan for future climate rather than relying on our perceptions of past climate

Risks to our communities:

- Health and wellbeing from higher temperatures in buildings
- Risk to people, communities and buildings from flooding
- Risks to building fabric from moisture, wind and driving rain

Opportunities:

- Higher temperatures may make outdoor activities more attractive
- Warmer winters may reduce the number of 'indoor heating months'



ADAPT TO CLIMATE CHANGE AND IMPROVE WELLBEING BY...

- Increasing urban green space
- using sustainable urban drainage (SuDS)
- making temperatures in homes comfortable in winter and summer



INSTEAD OF...

- limited green space
- overloaded drainage
- overheating homes
- cold and damp homes

Northern Ireland Climate Change Adaptation Programme 2019-2024 (NICCAP2)

Climate NI was commissioned by DAERA to develop a chapter for inclusion in NICCAP2 which outlines the important work planned by non-government organisations

Civil Society

- Academic sector
- Community and Voluntary Organisations
- Private sector

Local Government

- Local Councils (SOLACE)
- NI Local Government Association (NILGA)
- Sustainable NI

Chapter will be included alongside government chapters

Overarching Priority Area: Natural Capital (NC), including Terrestrial/Coastal/Marine/Freshwater ecosystem, soils and biodiversity

Objective NC1: We have species, habitats and water bodies that are resilient to the impacts of climate change

Objective NC2: We have coastal communities, habitats, landforms and infrastructure that are resilient to the impacts of climate change

Objective NC3: We have soils and land types that are resilient to the impacts of climate change

Overarching Priority Area: Food Security/Global Food Production (I)

Objective I1: We have a food system that is resilient to impacts of climate change

Overarching Priority Area: Infrastructure Services (IF)

Objective IF1: We have Transport & Network Services that are resilient to the impacts of Flooding & extreme weather

Overarching Priority Area: People & Built Environment (PB)

Objective PB1: We have people, homes, buildings and communities that are resilient to the impacts of flooding & extremes of weather

Overarching Priority Area: Disruption to Businesses & Supply Chains (B)

Objective B1: We have businesses that can adapt to the impacts of Climate Change & extreme weather

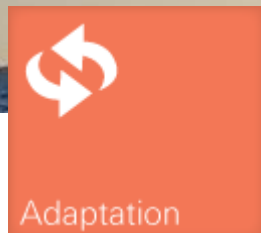
Approach to Local Councils...

| Objective | Proposed activity | Case study |
|--------------------|--|---|
| NC1 | Local Biodiversity Action Plans & Local Biodiversity Implementation Plans that encourage resilient species, habitats and water bodies. | Interreg Project 'Collaborative Action for the Natura Network (Newry Mourne and Down) |
| NC2 | Local development plans that encourage resilient coastal communities, habitats, landforms and infrastructure. | Project to examine risks to infrastructure services due to coastal erosion (Newry, Mourne and Down/ Ards and North Down) |
| NC3 | Local Biodiversity Action Plan & Local Biodiversity Implementation Plan (NE4) which encourage resilient soils and land types | Project at Brackagh Moss which aims to preserve and restore the wet fen, increasing species diversity and increasing water retention on site (Armagh City, Banbridge and Craigavon) |
| IF1 | Local Development Plans that encourage flood risk management and urban drainage | None identified |
| P1 | Local Develop Plan that outlines new and retrofit building design requirements to embed resilience across homes, buildings and communities Community resilience programmes that provide information about how the current level of action relates to the level of risk | Community resilience group E.g. Belfast City Council Area (this group did not submit information through the NICCAP consultation but could be approached during Step 3) |
| I1 | Encourage food resilience through 'grow your own' initiatives | 'Grow your own' allotment initiative (Mid Ulster Council) |
| Overarching | Local council climate change adaptation programmes C.L.I.M.A.T.E. Interreg project will develop best practice guidance for local council adaptation planning and support development of the first NI local council adaptation plan (Derry and Strabane and Climate NI are members of the project team) | |

Developed in partnership with the Northern Ireland Local Government Association (NILGA), Sustainable Northern Ireland (Sustainable NI) and local government representatives.

Mapping exercise of adaptation planning and activities was undertaken and used to guide development of strategic actions for the sector.

Approached SOLACE to support strategic actions

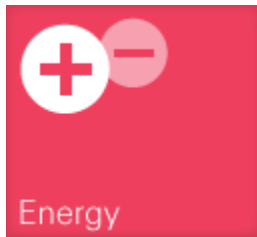
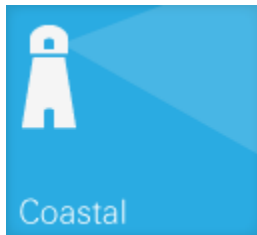
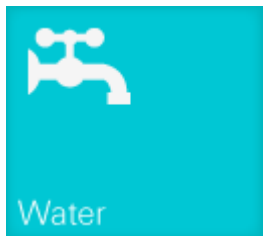
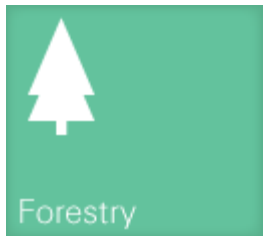


Mapping of Local Council activities

- Lots of good policies and projects that work toward a more climate resilient region
- No strategic approach to considering vulnerability, planning or implementing actions to become resilient
- DCSDC leading the way with the first NI local council climate change adaptation plan

NICCAP2: Local Government Adapts

| No. | Action | Reporting partners | Implementation Timeline |
|-----|--|---|-------------------------|
| 1 | Work with local councils to embed the adaptation cycle across local council planning with the aim of encouraging councils to 'assemble a team and required procedures' by 2021 and 'plan and take action' by 2024 | NILGA, Climate NI, Sustainable NI supported by SOLACE | By 2024 |
| 2 | Explore the capacity needs within local councils to enable delivery of Action 1 (above) and develop support mechanisms | Climate NI, Sustainable NI, NILGA | By 2024 |
| 3 | Develop and pilot a 'monitoring and reporting process' which can be used by local councils | Climate NI, Sustainable NI | By 2021 |
| 4 | Share learning from CLIMATE NPA Interreg project on adaptation cycle planning with local councils | Climate NI and DCSDC | By 2021 |
| 5 | In bringing forward their LDPs, Councils will take account of climate change adaptation considerations as indicated in the Strategic Planning Policy Statement | Local councils | Ongoing |



Guidance, tools and support...

- CLIMATE: We have been working partners to deliver **support tools and resources**
 - Guidance on costing climate change adaptation
 - Service area vulnerability factsheets
 - Co-design/facilitation of the adaptation workshops
- **share toolkit in a user-friendly way**



Next steps *Working with Sustainable NI, NILGA and DCSDC (CLIMATE project)*

- Local Council Climate Change Adaptation Tool (Based on the CLIMATE project toolkit)
- Set up a 'local authority adaptation network' with representation from each council (supported by members of Climate NI Steering group)

Asks:

- Has your council put forward an 'adaptation contact' for Climate NI to work with? (As agreed by SOLACE)
- Open lines of communication with Heads of service and Senior staff

Dublin to welcome IPCC

The Intergovernmental Panel on Climate Change (IPCC) is 30 years old this year, having played a central role in the scientific data and projections for climate change in that time. The Lead Author Meeting for *Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems*, will take place this week in Dublin from 3-7 September.

Over 100 authors from all over the world have worked hard on a first draft of the report, which has been reviewed by hundreds of experts. The authors are meeting to prepare a second draft of the report, including a draft Summary for Policymakers, with the full report due in August 2019.

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Food prices 'to rise 5%' because of extreme weather

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- Diary
- 04.09.18 - 09.09.18
United Nations Conference Centre, Bangkok, Thailand
 - UNFCCC Climate Change Conference
 - 18.09.18
The Birmingham Conference Centre, Hill Street, Birmingham
 - WWT Sustainable Water Conference
 - 20.09.18
BBC Blackstaff House, 82-86 Great Victoria Street, Belfast

6 Items

- John Barry**
Professor of Green Political Economy
Queen's University Belfast
[Green Political Economy Post-2015 Sustainability](#)
- Brian Black**
Television Producer
Evergreen Media
[Archives](#)
- Nigel Brady**
Director
Bryson Energy
[Energy Resources Sustainability](#)
- Patrice Cairns**
Policy Manager
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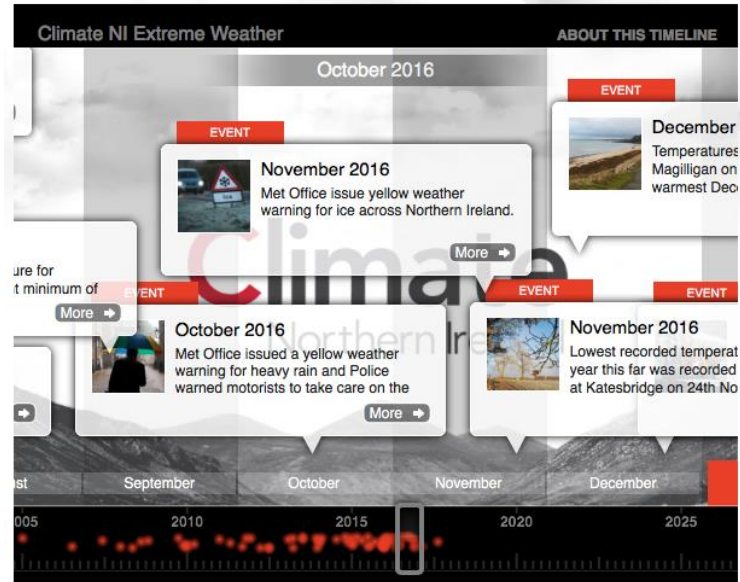
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