

Climate Ready Scotland



Managing our assets: buildings, infrastructure and cultural heritage

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Disruption to buildings and infrastructure result in many interacting risks which are best managed through collaboration and partnership working. Initiatives across Scotland are bringing partners together to identify and manage their shared climate risks, design in increased resilience, adapt existing assets and improve public communication when disruption is likely.

The impacts of climate change on our cultural heritage are wide-ranging. Scotland's historic environment includes houses, tenements, hotels, shops, warehouses, roads, railways, bridges, canals and many other structures, supporting our economy and society. But these structures also represent a crucial part of our history and heritage. Our world heritage sites, castles and archaeological sites are impacted by climate change at the same time as they are at the heart of local efforts to adapt.

A critical adaptation effort is to make sure that our buildings and structures are in the best possible state of repair so that they can withstand extreme and unpredictable weather better. A key element in this is promoting and sustaining traditional skills and materials at national and local level.

Flooding is significant and widespread in Scotland. It affects homes, communities and businesses directly, and also disrupts vital services, resource flows and transport networks along with many cultural heritage assets. Current estimates suggest Scotland could suffer approximately £250million of flood-related damages annually. How we use our land and how we live can reduce the risk of flooding even with more extreme and unpredictable weather.

The Scotland Flood Risk Management (2009) Act emphasises the key role collaborative actions and partnership working has on protecting people and places from flooding.



www.adaptationscotland.org.uk/how-adapt/case-studies/screening-natural-hazards-inform-climate-change-risk-assessm

Image © HES

Historic Environment vulnerability assessment

Historic Environment Scotland (HES) have worked in close partnership with the British Geological Survey (BGS) and the Scottish Environment Protection Agency (SEPA) to conduct a Climate Change Risk Assessment for over 300 Properties in Care (PICs) on the HES Estate. This will improve decision-making for prioritising the on-going conservation and maintenance programmes, thus ensuring the long term survival of these monuments and buildings.

What we have achieved

- A hazard, impact and risk profile for each property
- A site-specific report on natural hazards for our conservation architects and works managers
- Modelled data can be matched with real-life observations, site management practices, and additional information on climate impacts
- The data integrated in our Asset Management System and Conservation and Maintenance Plans

Partners





Climate Ready Clyde

The Glasgow City Region faces numerous climate change challenges. Adapting to these challenges is easier, cheaper and more effective when we do it together. 1.8 million people live, work and play in the Glasgow City Region. A large number of businesses and organisations are based here. Increasingly they are impacted by the effects of climate change, both directly in the Glasgow City Region, and from changes happening around the world. Climate Ready Clyde brings partners together to work strategically to minimise the risks and seize the opportunities this brings for our economy, society and environment.

What we are achieving

- The first city-region adaptation strategy and action plan in Scotland
- Addressing strategic needs of the city region – Securing economic competitiveness and new inward investment
- Increasing the attractiveness of the City Region as a place to live, work and visit
- Making the most of our collective resources through co-ordination

Partners



Glasgow Surface Water Management Plans

Glasgow's Surface Water Management Plans aim to transform how the city region thinks about and manages rainfall, reduce the risks and impacts of flooding, and improve water quality.

Rather than deliver 'traditional' approaches to flood management – such as large, below ground pipes, storage tanks and pumping stations – the SWMPs will endeavour to deliver interventions that align with a vision of:

- Enhancing our urban biodiversity and landscape
- Reconnecting our waterways
- Integrating urban master planning and design
- Providing sustainable and affordable drainage solutions
- Being climate change ready

What we have achieved

- Identify and deliver sustainable, blue-green, surface water management interventions to reduce the risks and impacts of flooding
- Seek to deliver multiple benefits in terms of improving air quality, improving water quality, reducing combined sewer overflows, helping to address urban heat effects and raising awareness of the overall challenges of climate change

Partners





www.sepa.org.uk/environment/water/flooding/floodline/

Floodline

Floodline provides live flooding information and advice on how to prepare for, or cope with, the impacts of flooding 24 hours a day, 7 days a week.

With 108,000 properties at risk of flooding across Scotland and roads, transport networks and community facilities at risk, Floodline offers information to be prepared.

By signing up to the service the user can:

- Check if their property is in a Flood Warning Area.
- Receive Flood Warnings specific to that area.
- Receive Flood Alerts – more general messages for a wider area.

What we are achieving

- Protecting families, properties, pets and livestock
- Making alternative travel arrangements
- Alerting staff, customers and suppliers of possible disruption
- Moving valuables and stock to a safe area
- Limiting the overall cost of damage

Partners



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