



**Shetland Islands Council  
Climate Change Programme**

**Climate Change Strategy Into Practice**

# The Challenge

## Remote and Rural Location With A Harsh Climate



# Risks to Shetland from Climate Change

## Climate Related Hazards Facing Shetland



Coastal flooding  
(Storms, sea level rise)



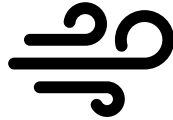
Surface/flash flooding  
(Extreme rainfall)



Extreme  
temperatures



Burn/stream flooding  
(Extreme rainfall)



More storms



Ocean acidification  
& ocean warming



Pests, pathogens and  
invasive species

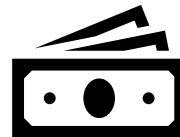
## Sectors and activities likely to be affected by climate change



Transport  
(and imports/exports)



Buildings



Economy



Health

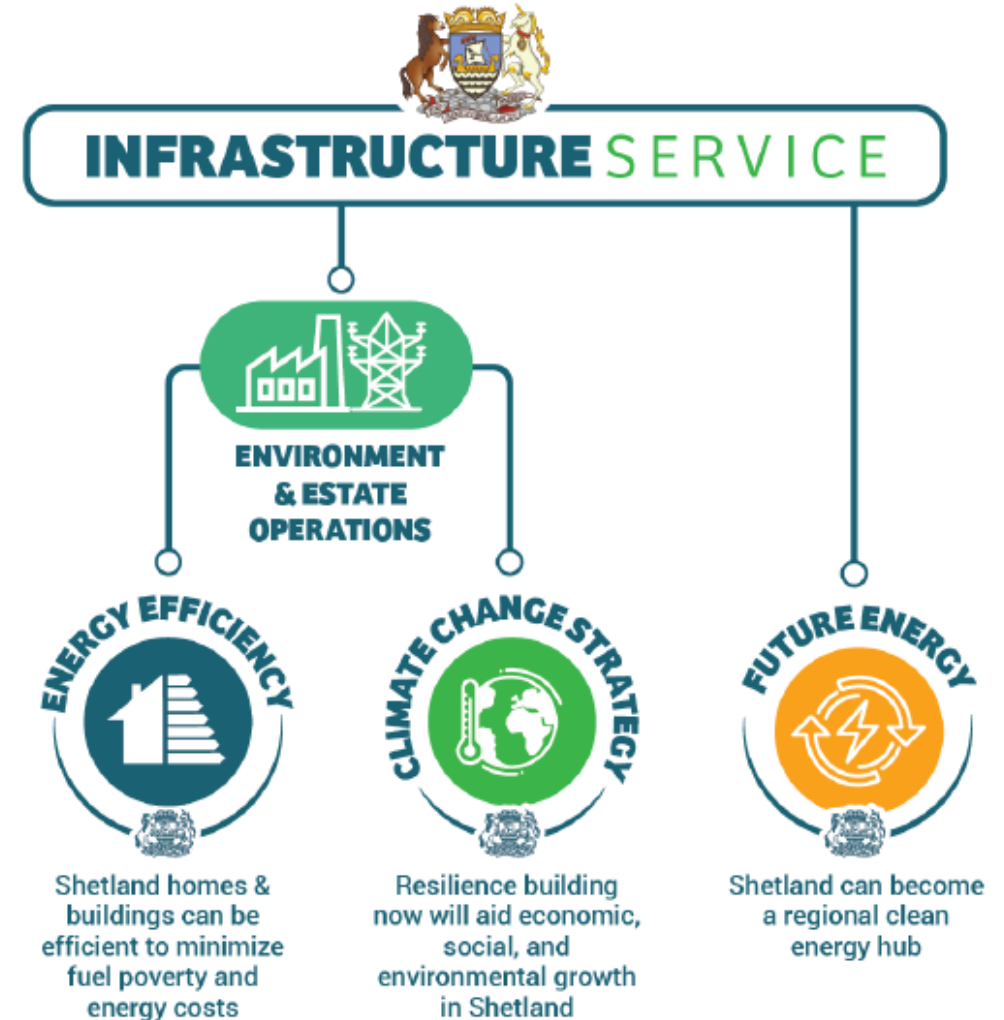


Fishing and  
agriculture

# Climate Change Programme

## Purpose

- Development of the strategy, governance arrangements, target development and action planning required to adapt to, and mitigate, climate change in Shetland
- Contribute to an effective Scotland, UK and international response
- Inform the identification of issues and options
- Assist in evidence based planning and decision making so that environmental, economic and social needs are recognised, balanced and met



# Net Zero Route Maps : SIC & Shetland



- Framework to measure, monitor and report on our GHG emissions across Shetland
- Model pathways to net zero
- Review and prioritise actions

Approved by Environment and Transport Committee and Full Council – November 2022

Recommended by Council:

- SIC set an organisational Net Zero target of 2045 in line with the NZRM
- Develop an SIC Climate Change Strategy and Action Plan, with a framework to allocate responsibility for actions and measure, monitor and report on progress, using the data and recommendations gained through the NZRM and publishes annual progress reports.

# SIC Climate Change Strategy and Action Plan



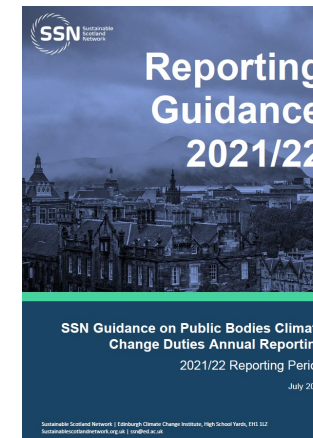
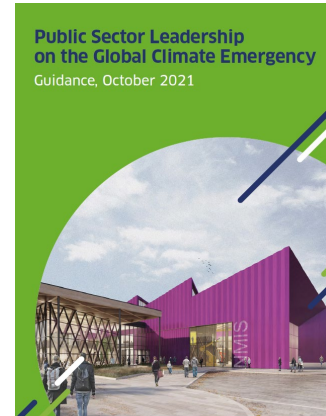
- Net Zero Route Maps – SIC and Shetland
- Scottish Government
  - Public Sector Leadership on the Global Climate Emergency
  - Public Bodies Climate Change Duties Report
- Audit Scotland:
  - Addressing climate change in Scotland: A summary of key recommendations for public bodies
- Climate Emergency UK Recommendations



Shetland Islands Council - NZCR  
Final report on baseline, business as usual and net zero pathways  
Report for Shetland Islands Council



Shetland Islands Net Zero Routemap (NZSR)  
Final report on baseline, business as usual and net zero pathways  
Report for Shetland Islands Council

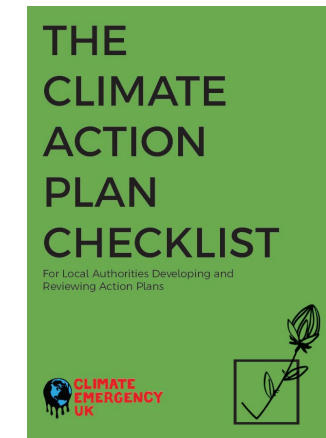


## Addressing climate change in Scotland

A summary of key recommendations for public bodies



Prepared by Audit Scotland  
March 2022



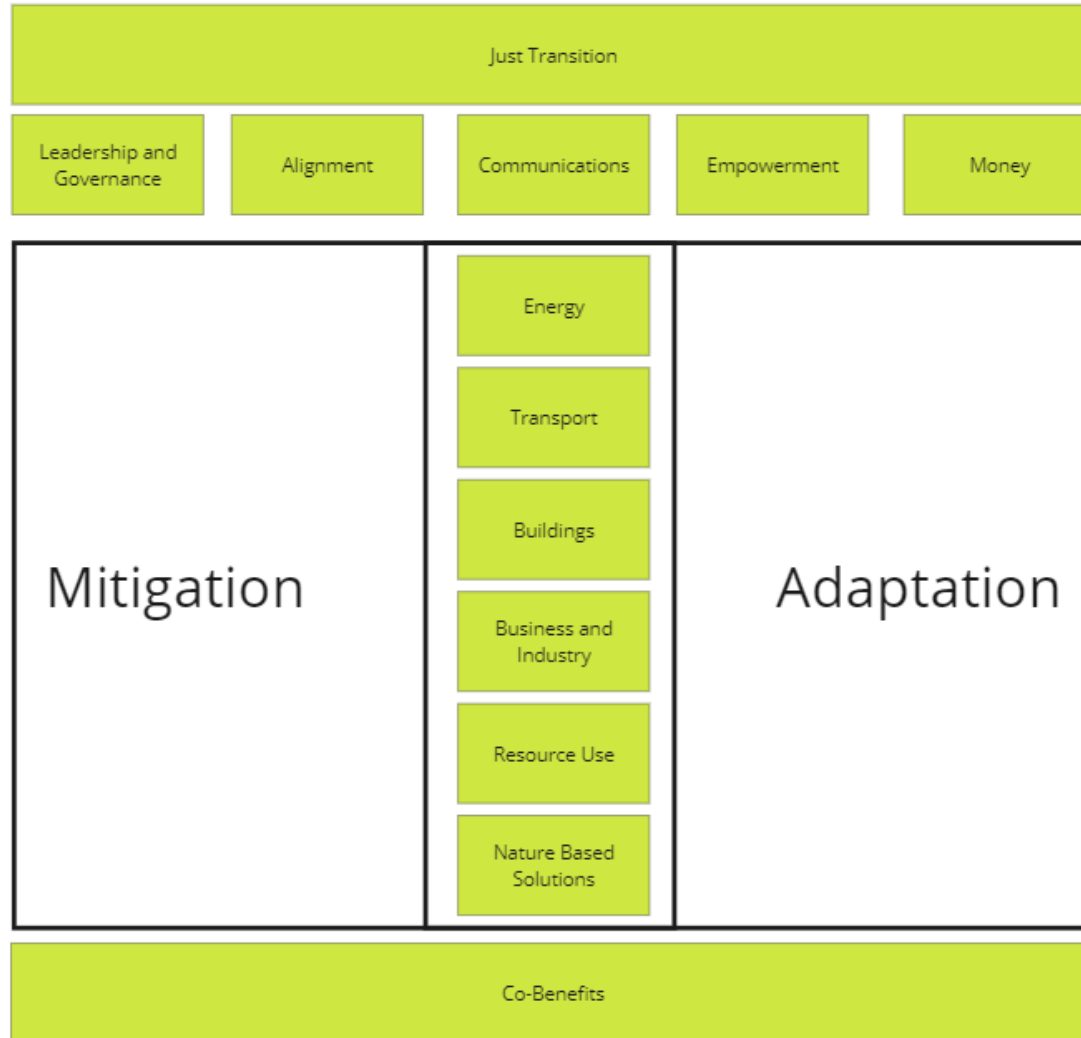
# SIC Climate Change Strategy



## Climate Change Strategy



2023-27



- Co-designed with all Service Areas
- Responsibility allocated
- Timelines allocated
- Progress monitored and reported through digital performance management platform
- Corporate Management Team established as Climate Change Programme Board

# Shetland Climate Change Strategy

## A common vision and approach for addressing climate change in Shetland

### Purpose

- Increased collaboration across organisations
- Avoid duplication of effort across organisation
- Efficiencies across organisations
- Stimulate increased investment
- Accelerate climate action

### Vision

**We are a community that prioritises the changing climate and the opportunities of a sustainable low carbon future. We will build a green economy that supports the resilient communities and businesses of Shetland, while protecting and restoring our natural environment.**

### Goal

- To put place-based projects on the ground, with the community at the heart of the transition to Net Zero, which will improve social, economic and environmental benefits to the community





# Rural Energy Hub Project



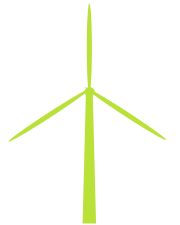
Demonstrate a **place-based model** for **overcoming non-technical barriers** to decarbonisation that is **replicable in rural and remote communities**, maximising social and economic benefit to the community

## Innovative solutions to non-technical barriers:

- Finance – Economic Sustainability
- Market Failure
- Regulation
- Grid Capacity
- Resource
- Behavioural Change
- Lack of 'Tried and Tested' Data - Confidence

# Rural Energy Hub Project

- Programme: **1st February 2024 – 31st October 2025**
- Place-based approach to decarbonisation of mobility, heat and power in a rural area, with community benefit and improved service delivery at the heart of the project.
- £4.9 million funding from Innovate UK shared between Shetland and Orkney projects
- **Pilot Rural Energy Hub in Brae**
  - Building remodel and energy efficiency upgrade to Hub Building
  - EV charging infrastructure - Supplementary EV car club offering to community
  - Renewable energy generation to building and charging infrastructure – community demonstration/education
  - Transport Connectivity Analysis and trial of service changes e.g. Demand Responsive Transport and Dial-a-Ride
  - GoHi – App rolled out across Shetland to view, plan and book public/augmented transport
  - Trial of electric bus – routes across Shetland
  - Brae District Heating Scheme – Feasibility study and concept design



THANK YOU

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