

What is climate change?

The long term shift in global weather patterns and temperatures driven by human activities like the burning of fossil fuels.

What is net zero?

Ensuring carbon emissions which are released into the atmosphere are equally balanced with those removed.



Shetland Emissions

The main sources of greenhouse gas emissions (mainly carbon dioxide and methane) in Shetland are from transport, industry and land. This includes:

- High use of petrol and diesel for vehicles and vessels
- Eroded peatlands
- Use of oil for heating

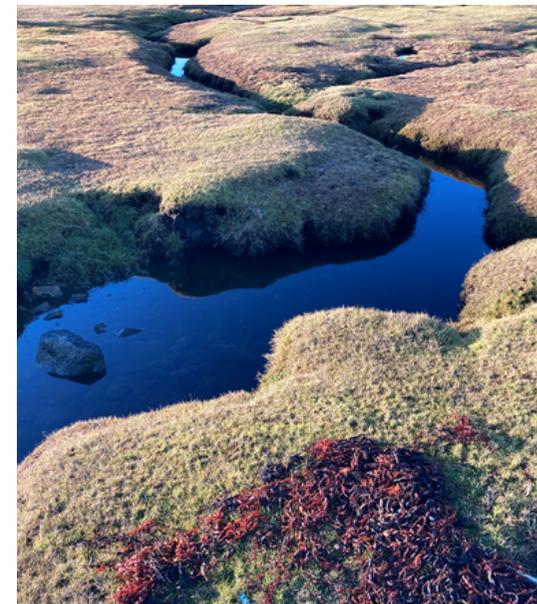


SHETLAND
ISLANDS COUNCIL



CLIMATE CHANGE

Considering climate change
For businesses and retailers



Climate Considerations

Here's what to think about:

Mitigation - what can the business do, or do differently to reduce greenhouse gas emissions?

- Replace oil-fired heating systems with heat pumps, solar panels or other renewables
- Improved energy efficiency such as installing insulation, using LED lighting, upgrading heating systems and boilers, fitting double glazing, improving air tightness and using water saving appliances or controls
- Reduce use of carbon fuels or switch to an alternative biofuel if possible
- Reduce, reuse, recycle, repair and redistribute products and equipment
- Use of recyclable packaging, reduce single-use products, find sustainable supply chains and services
- Consider the commute to work: active travel, public transport or electric vehicles
- Is there EV charging infrastructure or bike storage available?
- Reduce water and energy usage



Adaptation - What can your business do to become more resilient in the face of rising sea levels, coastal erosion and increasingly severe storms and rainfall in winter?

- Carry out a climate change risk assessment
- Identify buildings and infrastructure most at risk from storm surge
- Make buildings and surrounding land more resilient to storm damage
- Prepare for adverse weather, storms and power cuts
- Consider the risks to supply chains

Contact Us



climatechange@shetland.gov.uk



<https://www.shetland.gov.uk/climate-change>



Climate Change Team,
Infrastructure Services,
Gremista,
Lerwick,
ZE1 0PX

Climate Related Hazards Facing Shetland



Coastal Flooding
(Storms, sea level rise)



Surface flash Flooding
(Extreme rainfall)



Extreme
temperatures



Burn/stream flooding
(Extreme rainfall)



Ocean acidification
& ocean warming



More storms



Pests, pathogens and
invasive species

Sectors and activities that may be affected by climate change



Transport
(and imports/exports)



Buildings



Economy



Health



Fishing and
agriculture