

Addasu i'r Climate Hinsawdd Adaptation

Tools and Insights for Climate Adaptation in Pembrokeshire



Climate Change

Climate change refers to long-term shifts in weather patterns and global temperatures. Human activities are now the primary driver, with changes now occurring at an unprecedented speed and scale. The burning of fossil fuels, deforestation, and industrial and agricultural practices have significantly increased greenhouse gas levels in the atmosphere, accelerating global warming.



Climate Adaptation

Climate adaptation means taking action to prepare for the effects of climate change now and in the future. It's about reducing risks, protecting people, communities, and nature, and making sure we're ready to cope with the effects of our changing climate such as more extreme weather, increased risk of flooding, wildfire and sea level rise.



Why Do We Need to Adapt?

While the Earth has experienced rapid climate changes in the past, the current rate of warming is unparalleled in recent geological history and poses unique challenges to ecosystems and societies. These changes threaten our safety, health and economic well-being.

Whilst we can reduce the severity of climate change impacts by reducing our greenhouse gas emissions (mitigation), we also need to prepare for a wide range of increasing risks posed by climate change that are already happening.

This means we must adapt our communities, buildings and environment so that they are more resilient to storms, flooding and other extreme weather events.

Adaptation helps protect people, infrastructure, and communities, ensuring that everyone, especially the most vulnerable, can handle the increasing risks of climate change.



What are the Increased Risks?

The UK Government publishes an independent Climate Change Risk Assessment every five years. The assessment sets out the risks facing the UK from climate change. For Wales these include:

- ➔ Increasing rate of sea level rise - average predictions are for 1 metre of sea level rise by 2100
- ➔ Increased coastal flooding and erosion
- ➔ Increased frequency and intensity of wildfires
- ➔ More extreme weather events - increased storminess and more intense winter rainfall and summer droughts

These climate impacts not only pose physical risks, but also have significant social implications, such as displacement of communities, increased pressure on local healthcare systems, and impact on protected environments, agriculture and tourism.

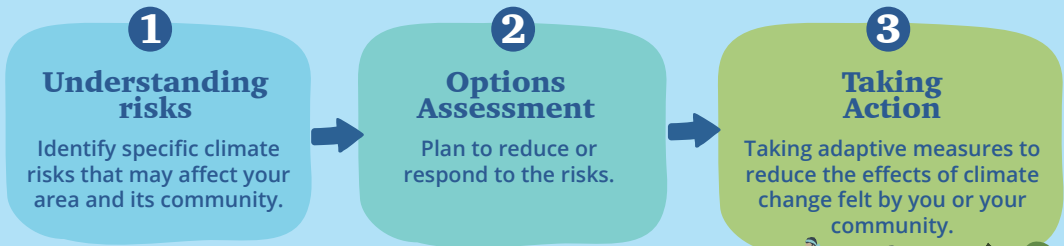


The Met Office provides independent data-based information on trends for weather, sea level rise, rainfall and storminess. You can find out more information on the changing climate in Pembrokeshire on their website:



➔ www.metoffice.gov.uk/weather/climate-change/effects-of-climate-change

What can communities do?



A Climate Adaptation Toolkit for Pembrokeshire

A **Climate Adaptation Toolkit** has been co-created for Pembrokeshire with input from communities and a wide range of organisations to bring climate adaptation information together. The toolkit includes educational materials, a network for support and action, and activities communities can do to prepare for climate change and adapt to its impacts.



➔ www.pembrokeshirecoastalforum.org.uk/climate-adaptation-toolkit



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