

# Speech: What you should really be worrying about: climate change

## **What you should really be worrying about: climate change**

Speech by Sir James Bevan, Chief Executive of the Environment Agency

Carbon Trust Low Carbon Cities Conference, London, 22 February 2018

### **Why you should worry about climate change**

What keeps you awake at night? Fear of terrorism? Nuclear war? Economic collapse? If so, you're worrying about the wrong thing.

The Global Risk Report 2018, compiled by business leaders for last month's Davos meeting, put something else at the top of the list. The biggest risk now facing the world, they concluded, is none of the above – it's climate change. So if you have been worrying about the wrong thing, at least you are now at the right conference.

### **What it means for the UK**

What does climate change mean for the UK? In 2009 the first UK Climate Projections brought together contributions from over 30 scientific organisations to model the likely changes to our climate out to the end of this century.

Those projections and more recent evidence suggest that average UK summer temperatures could rise by up to 4°C by 2080; that sea level will rise by up to 1 metre by the end of the century (more in some locations); and that we will see more extreme weather, including heavier, more intense rainfall.

Likely consequence: more frequent and more extreme flooding, greater coastal erosion and heightened risk of droughts. You don't need to be a genius to work out what that could mean for vulnerable communities up and down the country, rural as well as urban.

### **Why this matters for UK cities**

We care about all communities in this country. But we're focusing today on cities. That makes sense. Over 83 per cent of the UK population now live in urban areas: that is expected to rise to over 90% by 2030. Our cities drive much of our economy and are engines for innovation. And they offer some of the biggest opportunities: if we get their future design right, they will play a crucial role in the transition to a low carbon and resilient future.

But our cities are also exposed to some of the greatest risks. It is an inconvenient truth that most of our cities, and therefore most of our

population, are located by coasts or rivers or in other low lying locations; and that wherever our cities are, every single one of them depends on water.

The Committee on Climate Change has identified six major climate-related risks for the UK. The biggest of all is increased flooding – from rivers, the sea and surface water. This will impact particularly on our cities. It will threaten our city homes and businesses; the power, water, communications and transport infrastructure on which our cities rely; and the broader supply chains on which our city economies depend.

Greater flood risk is not the only threat that climate change is bringing to our cities. The Committee identified others too: there will be heightened risks to health, wellbeing and productivity from high temperatures; risks of shortages in water supply (a risk that has already materialised in Cape Town right now); threats to our natural capital; to food production; and from pests and diseases.

#### **The good news**

That's the bad news. The good news is that we can successfully tackle these threats if we work together; and indeed that if we do this right, we can create even better cities that are life-enhancing places to live and work, an even stronger economy and an even better country.

#### **What the EA is doing**

The EA itself is directly engaged in trying to turn all this risk into opportunity. We're doing that in three main ways.

First, we're helping to reduce the causes of climate change.

We administer a number of the government's carbon reduction and energy efficiency schemes. We oversee the regulation of over half the UK's carbon emissions, and we're having some success – since 2000 greenhouse gas emissions from the industries we regulate have decreased by 39%. We're an energetic and positive regulator of the renewable technologies we need for the future, including hydropower and anaerobic digestion and, perhaps one day, tidal lagoons.

Gandhi said: "be the change you want to see in the world". So we also try and live low carbon in the Environment Agency's own daily operations. Over the last decade we have cut our emissions by over 40%. We have a travel hierarchy that encourages us away from carbon. We've invested in low emission technology and renewables across our estate and in our vehicle fleet.

We also ensure that our own Pension Fund makes sustainable and responsible investments, and it's been globally recognised for that. That includes investing in the Carbon Trust's Low Carbon Workplace partnership, in which businesses come together to acquire and refurbish office buildings to make them into modern city workplaces that minimise energy costs and carbon emissions.

Second, we're helping building long term resilience to climate change for our

cities.

Example: water. The biggest single influence on long term water availability is – you guessed – climate change. Water supplies are under further stress as our population rises. We are also seeing greater stress on the natural environment. Unless we take action now, demand for water in this country will eventually exceed supply.

Part of the answer is reforming the current system for taking water out of rivers and the ground. The Environment Agency regulates this through our abstraction licensing system. If you want to take more than 20 cubic metres a day, you will normally require an EA abstraction licence, many of which limit how much water can be taken. We actively manage thousands of those licences, working with the water companies, farmers and businesses who are their primary users to balance water availability and demand.

But this system of abstraction licensing was designed more than 50 years ago for a world with less demand for water, fewer people, almost no environmental protections and little awareness of climate change. That's why we are now working actively with water users and the government to reform it, so we can give abstractors what they need while protecting water supplies and the wider environment for the long term.

Second example of future proofing ourselves through resilience: flood defence. The Environment Agency's £2.6bn flood defence investment programme will better protect 300,000 homes – the majority in cities – by 2021. We have built climate change projections into all those schemes, to ensure they will continue to offer a high standard of protection over decades into the future as the climate changes. Those climate change projections are built into the present Thames Barrier not far from here, which we own and operate. And they are built into our thinking about what London will need to replace the present Barrier some time after 2070.

Third example of future proofing: urban planning. The Environment Agency is a statutory consultee on most development. We work actively with city planners and developers to ensure that new housing, new infrastructure and other developments are sustainable, and will remain resilient to flooding and to the other, less obvious effects of climate change.

One of those effects is the risk of extreme temperatures in our cities due to urban heat island effects. The way we design and build our urban spaces can avoid those urban hotspots, and we are active in helping cities shape the right design.

The third contribution the Environment Agency is making to a successful low carbon future is helping to shape future policy,

We contribute data, analysis and advice to the government's Climate Change Risk Assessment and its National Adaptation Programme, an updated version of which is due this summer. We contribute to the UK Climate Projections, which will also be updated this year. We helped write the 25 Year Environment Plan launched last month by the Prime Minister, which commits the government to

“all possible action to mitigate climate change, while adapting to reduce its impact”. That Plan has our full support and we will have a major role in delivering it.

Finally, we are supporting the government’s Clean Growth strategy. Our Chair, Emma Howard Boyd, is actively involved in initiatives to shape a bright urban future, including the Future Cities Catapult and the Green Finance Task Force.

**Conclusion: think big, act early, be visible**

Let me conclude with these thoughts. The Environment Agency is not, as we are sometimes portrayed, anti-growth. On the contrary. Our primary purpose, spelt out in the 1995 Environment Act that established the Agency, is not actually protecting the environment: it is promoting sustainable development. Our job is to do both of those things: to protect and enhance the environment on the one hand, and ensure sustainable growth and development on the other. And there is no greater prize in sustainability than successfully tackling climate change.

The Environment Agency has a slogan for handling flood incidents: think big, act early, be visible. That’s not a bad strapline for tackling climate change. We have another slogan too for how we try to work: One Team. We try to be One Team both inside the Environment Agency and with our partners.

All of us are here because we care. We’re all pretty good at what we do. But none of us is as good as all of us. So let’s not worry about climate change, let’s do something about it. Let’s tackle it together, and build a better future for our cities and our country. The Environment Agency will be your partner in that great endeavour.

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## **Press release: Exeter flood defence scheme**

The construction of the Exeter flood defence scheme is now well advanced with completion of the whole scheme expected at the end of 2018. The scheme is a partnership between the Environment Agency, Devon County Council and Exeter City Council. The flood defences will reduce the risk of flooding to more than 3,200 homes and businesses in Exeter.

As part of the new defences being built in the north of the city it will be necessary to close Station Road from 9 April 2018 for 9 weeks. Station Road is located near St David’s Station and links Exwick Road to Cowley Bridge Road across the River Exe.

Two flood gates will be built across Station Road on either side of the river

and the flood relief channel. When not in use the gates will sit behind the footpaths; when a flood is expected the gates will be closed thereby completing the flood defences and protecting the properties on each side of the river.

It is necessary to close Station Road to vehicles during the construction work due to the size of the foundations required to support the gates. Pedestrians and cyclists will be able use the footpaths across the bridges except for the 4 weekends in May when complete closures will be in place.

Cllr Roger Croad, Devon County Council's Cabinet Member with responsibility for Environmental Services said:

This is an essential element of the flood defence scheme and these flood gates will reduce flood risk to hundreds of homes and businesses in the city. Every effort will be made to minimise disruption during the closure of Station Road, but the long term benefits will outweigh the short term inconvenience.

The Environment Agency and Network Rail have co-ordinated their work such that Network Rail will carry out essential maintenance work on their level crossing during this time to avoid the need for a separate closure at a future date.

The Environment Agency will be holding a drop-by briefing on Station Road on 12 March 2018 from 4pm to 7pm to explain the works and diversion routes. The briefing is in the public car park on the Exwick side of the bridge. You can also see the latest information on [GOV.UK](https://www.gov.uk).

Throughout the works detailed traffic and pedestrian diversion signage will be erected to direct people around the closures.

Richard Cox, the scheme's project manager said:

We'd like to thank commuters and others for their patience while we carry out these essential works. We regret that there will be inconvenience and we urge motorists to plan ahead and allow extra journey time. If people have questions regarding the diversion routes or works they can call the Exeter scheme information line on 07769 162338.

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**[Press release: Fourteen men fined for](#)**

# [fishing without a licence](#)

The Environment Agency is reminding anglers of the importance of having a rod licence after successfully prosecuting fourteen men last month.

The anglers were caught committing the offences in 14 separate incidents across the North East in July, August and September last year, including three in Hexham, and one each in Bellingham, Harlow Hill and Wylam. They received combined fines of £3,749, including £1,784 in costs and £300 victim surcharge. All pleaded guilty with the exception of two who were found guilty in their absence.

Rachael Caldwell, Enforcement Team Leader at the Environment Agency, said:

We've started the year as we mean to go on – taking strong action against illegal fishing.

The majority of anglers fish legally and purchase a rod licence. Those that don't are cheating their fellow anglers and endangering the future of the sport. In addition rod licence cheats risk a criminal conviction, a significant fine and could lose their fishing equipment.

The Environment Agency carries out enforcement work all year round. Fisheries enforcement work is intelligence-led, targeting known hot-spots and where illegal fishing is reported.

All income from rod licence sales is used to fund Environment Agency work to protect and improve fish stocks and fisheries, including improving habitats for fish and facilities for anglers, tackling illegal fishing and working with partners to encourage people to give fishing a go.

Buying a rod licence is quick and easy – you can buy them online at Gov.uk.

Anyone witnessing illegal fishing incidents in progress can report it directly to the Environment Agency hotline on 0800 80 70 60. Information on illegal fishing and environmental crime can also be reported anonymously to Crime stoppers on 0800 555 111.

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**[Press release: South West Regional](#)**

# Flood and Coastal Committee has two vacancies

More than 5 million people are at risk of the devastating effects of flooding in the UK, with thousands of properties at risk in the south west.

The Environment Agency is looking for enthusiastic people to help manage flood risk throughout the south west and make a real difference to people's lives and to the environment we live in.

The Agency is looking for people from all walks of life to fill vacancies on the South West Regional Flood and Coastal Committee (RFCC). Being an RFCC member is an exciting opportunity to help guide local flood and coastal management across the whole region.

The RFCC covers Devon, Cornwall and the Isles of Scilly.

The successful applicants will play an important role in deciding on local priorities, approving programmes of work, and supporting the Environment Agency and lead local flood authorities in working with communities and other partners.

They will have a key role in balancing local priorities and making sure that investment is co-ordinated at the river catchment and shoreline scale, as well as promoting the consideration of climate change impacts in local decision making.

The Environment Agency is recruiting a member to represent land/country farming and another member to represent business interests.

## **Land/country farming**

- provide a land management perspective at committee – working with the inland member and conservation members
- help the committee to understand issues affecting inland communities, landowners and farmers and how this impacts on river process and the coast
- monitor and review flood risk management and the river needing to be addressed
- provide a link between the committee, land management and farming groups in the committee's area
- advocate good soil management with the farming sector to benefit flood risk and reduce diffuse pollution

## **Business interests**

- experience in securing funding/investment from/for the private sector
- currently working in the business sector and understands the impact that flooding can have on private business
- established links to economic/regeneration institutions such as chamber

of commerce, local enterprise partnership and other business leader forums

People from a wide range of backgrounds are invited to apply for the posts, especially those from black and minority ethnic backgrounds and women who are currently under-represented on regional flood and coastal committees.

A key role will be ensuring the aims of the National Flood and Coastal Erosion Risk Management Strategy are embodied within the committee's decisions and to ensure consistency between strategic and local plans.

Further information and how to apply is available at <https://www.gov.uk/government/groups/south-west-regional-flood-and-coastal-committee> or contact [pamela.udy@environment-agency.gov.uk](mailto:pamela.udy@environment-agency.gov.uk) on 02084 746298. The closing date for applications is Thursday 5 April at 5.30pm.

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## **Press release: Stanford-le-Hope man fined over £7,000 for fly-tipping**

A man has been ordered to pay more than £7,000 in fines, compensation and costs after he admitted leaving mixed commercial waste on land owned by Thurrock Council.

Billy Prince illegally dumped the waste at a compound located on land at Stanford Road, Stanford-le-Hope, Essex in May 2015.

The compound is used to store street cleaning and highways team equipment and is not an authorised waste collection facility or site permitted for authorised waste disposal.

On 11 May 2015, Prince used a vehicle owned by his employer to unlawfully deposit a quantity of mixed commercial waste at the compound.

CCTV showed a vehicle which was later found to have been driven by Prince depositing waste at the site.

There was a large yellow sign at the compound entrance that stated 'No Tipping'.

The Environment Agency investigated the incident and determined that the offending was deliberate and undermined legitimate waste management activities. The offending caused inconvenience to the council and clean-up costs.

Prince was sentenced at Chelmsford Magistrates' Court last week. The court heard Prince had pleaded guilty at the earliest opportunity and was 'very remorseful' of his actions, having lost his job as a result.



He was fined £2,000, ordered to pay compensation to Thurrock Council to the value of £3,970, costs of £1,105 and a victim surcharge of £120.

Environment Agency Enforcement Team Leader Lesley Robertson said she was pleased with the sentencing outcome, and it showed that the courts were taking such incidents seriously. She said:

A community order or custody, as well as a financial penalty, could have been imposed. As this was a single offence the penalty was reduced and the magistrates felt a financial penalty, which totalled more than £7,000, was appropriate.

This shows that even with a single fly tip the penalties are very high.