



Practical Climate Action with Powys County Council

Martin Kemp



Gweithred

HINSAWDD

Climate Action Powys

Powys

Martin Kemp

ACTION

Powys

Today

Local climate context: The future we choose

Powys County Council Actions on Climate Change.

Collaborative success.

Collaboration opportunities.

2020 – February Floods



2020 – August Floods



Record Temperature's in Wales

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Met Office issues first UK extreme heat warning

By Katie Wright
BBC News

🕒 1 day ago

 UK heatwaves

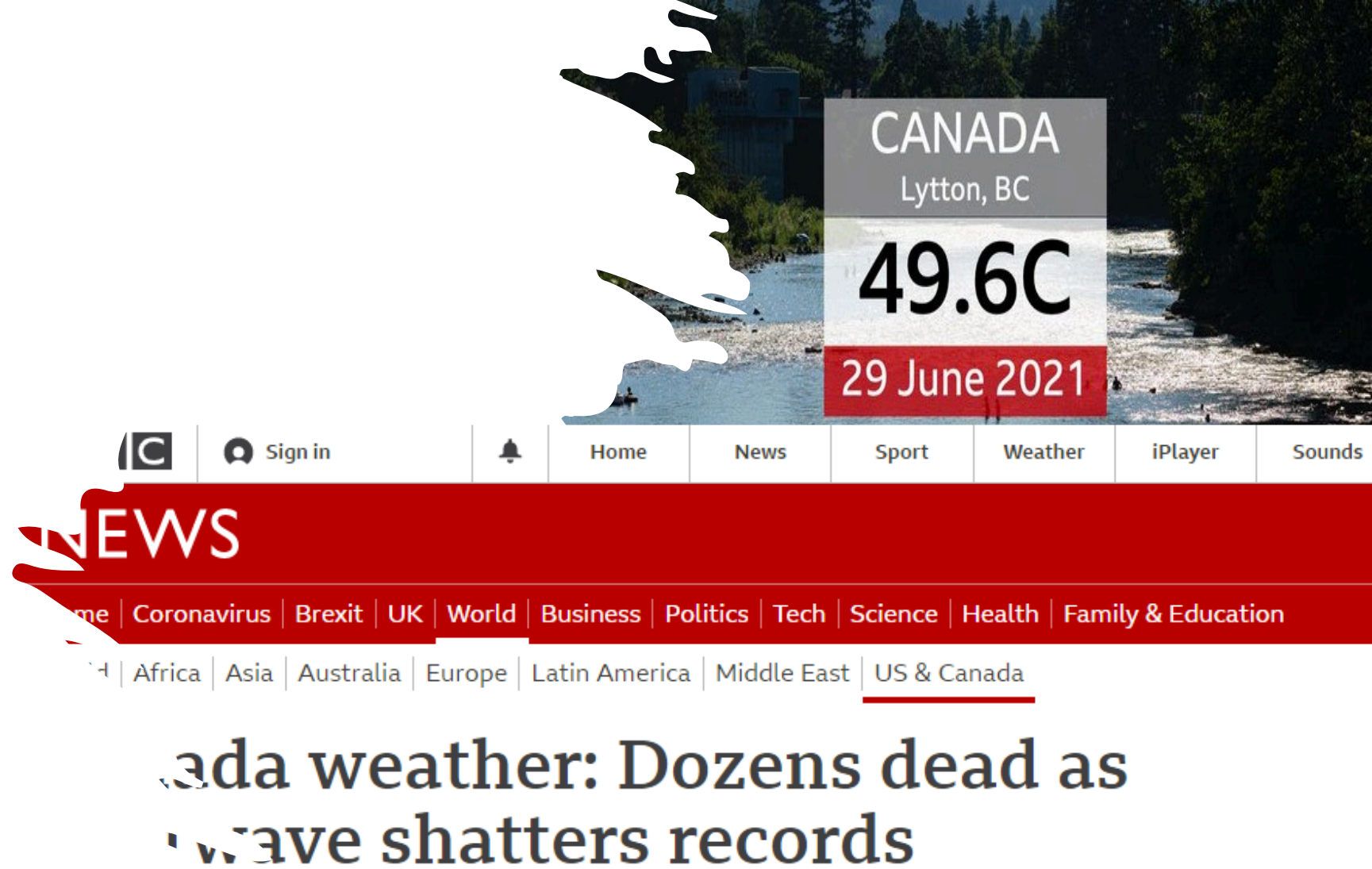
Met Office amber extreme heat warning 19-22 July



Source: Met Office

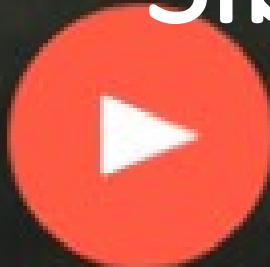
BBC

Record Temperature's in Canada





Siberia Forest Fires



01:13

Climate Change Risk Assessment (CCRA)

“Specific areas highlighted as having high exposure across a range of risks in the Technical Report include coastal areas, rural, or remote areas”

- Sixty-one risks studied
- Eight priorities
- Ten Principles to Adapt.



Integrated Vision

Climate Resilience

- adaptation & managing risks

Climate Emergency Action

- New Strategic Approach

Easy wins

- Fuel Switch / Avoid Fossil Fuels
- Improve Energy efficiency

Local Economy

- Maximise opportunities, i.e. electricity generation, digital.



Vision

- Sustainable Buildings
- Transport and Mobility
- Energy and Land
- Low Carbon Procurement



Council Aims

Net zero by 2030 is in
Vision 2025 Corporate
Improvement Plan
2021-25

Reducing carbon
emissions is a
Corporate KPI

Regeneration Team



Place Based Plans

Community BroadBand

Communities for Work+



MID WALES
Transforming Towns Covid-19
GRANT PROGRAMME



Mid Wales
Energy Strategy

Transforming Towns Initiative (Covid adapted)

- Outdoor tables, chairs and seating provision, screening, bollards, **planters and parklets**
- Active Travel Infrastructure.
- Small Green Infrastructure schemes especially where there is seating provision.





Innovative solutions to rural issues

- £5m of Rural Development Funding in Powys.
- Many innovative projects had links to climate change.
- Open Energy (Mixed **renewable energy** deployment) by Open Newtown.
- Pilot of Welsh **Biochar** (increase crop yields and create a local company).
- **Skillsshop** - Bike to the Future and O.U.R.S - one planet upcycling & repair café skillshop, Newtown.
- Pathways to **Farming** (Sustainable Land Use and business creation, Machynlleth & North Powys).
- Nearly **Wild** Exploration (Nature Based businesses, Powys). Business
- **Energy Local** (increase economic and social benefits of renewables with local ownership and use) in Powys.
- **Low carbon Transport** pilot (EV network connecting communities in North Powys).
- Dyfi **Biosphere** cooperation plan.
- Dyfi **Biosphere** Mixed **farming** (integrating horticulture and agriculture).
- Results based support mechanisms for **common land**.
- Home Grown Homes

Mid Wales Energy Strategy

Key Priorities



Drive forward the decarbonisation of the region's housing and **building stock**



Work proactively to ensure that electricity and gas **grids** in the region are suitable for a 100% decarbonised future



Boost the use of **renewable energy** through new generation and storage



Accelerate the shift to zero carbon **transport and improve connectivity**



Develop and harness the potential of **agriculture** to contribute to zero carbon goals



Harness **innovation** to support decarbonisation and clean growth

Council Actions

- Five thousand street lights converted to LED
- New Reuse Stations, Rainwater collection
- Installing EV Charging points in our communities.
- Installing solar panels on our schools and buildings.
- Infrastructure to encourage active travel
- Constructing energy-efficient homes and schools.
- Promoting best practice



RESIDENTS & COMMUNITIES



BRECON



Supply Chain Innovation



**THE
HOME-GROWN
HOMES
PROJECT**

New Build Innovation at PCC



Collaborative Success

PRESS RELEASE

Team Wales

- Wales is aiming for 100% Renewable electricity
- Mid Wales meets it's **net** annual electrical demand with renewables, 100% already



Collaborative Success.



Step 7

Develop a carbon positive strategy that maximises green energy production.



Achieve a net zero fleet by 2030 – energy cost saving

Expectation that by 2025 BEV solution for all cars and light commercials (under 3.5 tonnes) as well as almost all heavy commercials (over 3.5 tonnes and up to 150-200 miles per charge).

During 2025 to 2030 range increases and price premium falls. New battery technology reduces weight and decreases charging time – extends single-charge range of all vehicle types to over 300 miles.

It is the energy cost saving that can offset higher vehicle costs and some electric vehicle charging infrastructure costs.

Factor	ICE Fleet 2030	BEV Fleet 2030	Change	Reduction
Energy (MWh)	12,140	3,040	-9,100	-75%
Energy Cost (£ ²⁰²⁰)	£1,252,000	£368,000	-£883,000	-71%
GHG Emissions (t)	2,968	304	2,664	-90%



Residual of <BEV2030GHG> tonnes* if still charged from the UK grid in 2030

*assumes UK Grid carbon intensity of 100 gCO₂e/kWh in 2030.



Net zero in 2030 requires additional renewable capacity to offset electricity consumption. Equivalent to 1.4MW of wind or 3.2MW solar



Key steps to achieve ULEV transition by 2030



Establish a “Transition Team” with SMT support.



Review vehicle utilisation (under 6,000 mpa) – consider pooled or rental.



Downsize the LCV fleet from 3.5 to 3.1 tonnes or smaller where possible.



Adapt the fleet replacement cycles to warranty period of BEVs.



Install Electric Vehicle Charging Infrastructure (EVCI) – review depots and locations.



Introduce a ULEV Procurement Policy – use a whole life cost (WLC) selection model.



Provide BEV maintenance training to workshop team to Level 5.



Consider carbon accounting, internal GHG targets and internal charges.

Just Transition

- Fuel Poverty / Affordable warmth
- Zero Interest Loans
- New operating model.
- Digital Inclusion
- Transport Poverty/Active Travel
- Socio-economic Duty
- Charging Infrastructure



Key Milestones

- The Council has prepared it's first **Climate Change Strategy**
- The Council has baselined it's **carbon** emissions and first year **accounts**.
- The council has a draft **Action plan** with 200 steps towards net zero

Which of these statements do you agree with?

- There is a shift to a new way of working from covid-19 with increased remote working
- I want that new way of working to be more sustainable.
- There is an opportunity for a step change to create a more sustainable future.

How everyone can get involved

- Check out the Powys County Council website
- Share your visions and actions on Climate Change
- Submit your location Solutions through GrowInPowys
- Pledge to act on GrowInPowys.

Climate Contact

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