

Social Value Festival

Day 1: Introduction to Social Value and ECC Social Value Priorities

Monday 19 July • 1 – 3pm





Breakout session 2 - Social Value and the Climate







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Director for Environment & Climate Action Essex County Council



Essex Climate Action

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Director Environment & Climate Action

https://www.essex.gov.uk/climate-action

<u>Interim Report</u>



Climate Challenge

UK Domestic Green House Gas Emissions (GHG) by Sector 2019

Source: BEIS, HMG



Others include Public, Industrial Processes and the Land Use, Land Use Change and Forestry (LULUCF) sectors. The percentages may not sum to 100% due to rounding.

We are legally required to achieve net zero green house gas emissions by 2050. Government agreed milestone of 78% reduction by 2035.

Transport is the largest contributor of green house gases in the UK, but is an even larger share of Essex emissions.

Our built environment is in line with the national average. As we do not host a heavy industrial sector, the contribution of our business sector is below the national average.

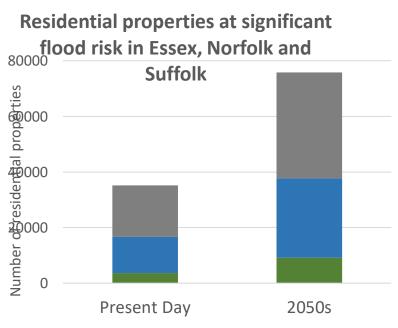
In 2019, UK territorial greenhouse gas emissions fell by 3% from 2018 and were 44% lower than in 1990



WORLD ECONOMIC FORUM – GLOBAL RISK REPORT 2020 "A PLANETARY EMERGENCY"

- Failure to act on Climate Change and associated impacts are the single biggest risk facing the World.
- Progress Report to Parliament, Committee on Climate Change, June 2020
- "We are not making adequate progress in preparing for climate change"
- The fundamental requirements to achieve Net Zero are largely unchanged by COVID-19: <u>infrastructure</u> <u>investments and reskilling of workers</u> – both of which can help the UK to recover from the COVID-19 crisis

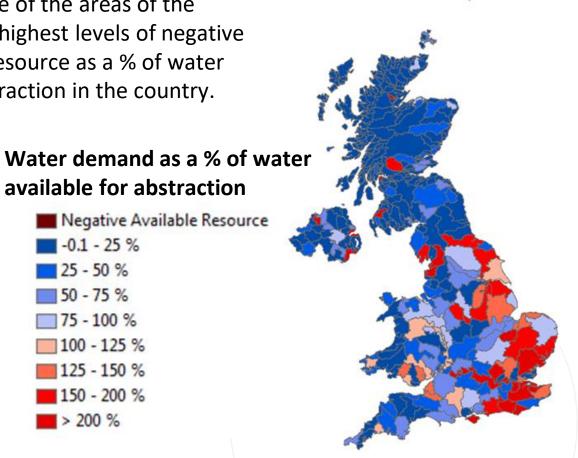
FUTURE IMPACTS: INCREASED FLOOD RISK, WATER SHORTAGES, OVERHEATING



Essex also has substantial issues with water scarcity and is one of the areas of the country with the highest levels of negative available water resource as a % of water available for abstraction in the country.

Homes at Risk Fluvial Flooding **Coastal Flooding** Surface Water flooding The Environment Agency improving protection from avoid around £5 of property damages

estimate that for every £1 spent flooding and coastal erosion, we



Sayers et al. 2017 (CCRA2)

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/30033 2/04-947-flooding-summary.pdf

FUTURE IMPACTS – AGRICULTURE AND SOILS

AGRICULTURAL LAND CLASSIFICATION IN ENGLAND AND WALES Grade 1 Grade 2 Grade 3a Grade 3b Grade 4 Grade 5 Non Agricultura Baseline (1961-91) 2050s (high emissions scenario)

Agriculture

Climate change will cause soil erosion – soil washed away in heavy rainfall in winter and blown away in drier summers - leading to degradation of our agricultural land and impacting our farming economy.

Subsidence Risk for Buildings & Roads

Climate change leading to hotter, drier summers, shrinks and cracks ground under houses.

British Geological Survey reports risks of clay related subsidence increases by a third by 2030 and triples by 2050.

This means the 1m homes at risk in the UK in 1990 is set to rise to 2.4m by 2030.

Essex is one of the key areas that will be affected.

Essex Climate Action Commission

- Cross-party
- Brings together experts from Academia, Climate Scientists, the Public Sector and Business Leaders e.g. UN
 Chief Scientific Adviser, senior academics from all 3 Essex Universities, representatives from major
 businesses, charities and trade associations.
- Appointed Independent Chair Lord Randall of Uxbridge
 - Identified for his significant experience in both national government and the private sector.
 - Life peer in the House of Lords.
 - Was Special Advisor on the Environment to the former Prime Minister, Theresa May
 - served as a trustee of the RSPB
 - special envoy on modern slavery to the Mayor of London
 - > member of the Environment, Transport and Regional Affairs Select Committee
- Appointed two Young Essex Assembly members to the Commission as co-chairs
- Chair of Place Scrutiny to be an official Observer at meetings of the Commission

2021 EV strategy; E-Scooter Pilots running; Ten Liveable Neighbourhoods Community owned renewables Essex Design Guide; Green construction training Smart meters in schools All new builds to have solar panels

2022 New schools commissioned net zero 25 school streets 10 local delivery hubs 5 E-cargo bike schemes Energy sector innovation hub

2024 Network community reuse and repair hubs

2023 Essex Housing Demonstrator net zero development
Developers to fund flood risk management via CIL
Coastal flood resilience scheme in critical areas completed

2025 All New buildings net zero and support circular economy recycling 50% Essex schools retrofitted to net zero All residents & businesses to have kerbside recycling All biodegradable waste to beneficial use

2030 25% all roofs have solar panels
1.43GW solar energy
Bioenergy in difficult rural homes
Hydrogen store for renewable energy
20 Liveable Neighbourhoods
3 new park and choose sites

2030 All public sector estates in Essex NetZero 100% fuel poor homes retrofitted & supplied with renewables

2/3 Essex houses retrofitted 1/3 commercial buildings retrofitted 100% schools retrofitted All new buildings carbon positive 2030

25% land natural green infrastructure
(urban and rural)

50% farmland uses sustainable land stewardship

30% Essex in a Climate Focus Area
Per capita waste reduced by 10%

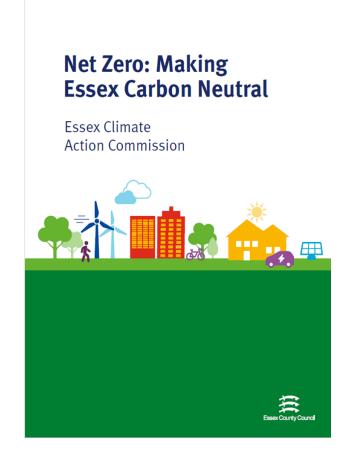
70% recycling rate
Zero waste to landfill

2035 All waste heat reused
All gas fired power repurposed to bioenergy
Network of community energy neighbourhoods
in every district

2040 All housing retrofitted
Zero GHG emissions from housing
Essex renewables meets all county needs
30% all land natural green infrastructure
75% farm land adopts sustainable
land practises

2050 All roofs have solar panels
75% all developments have integrated natural water management
100% farm land uses sustainable land practises

Net Zero: Making Essex Carbon Neutral



Powering positive change



Green Growth Opportunities

Construction In Essex

- 200,000 new homes & 40+ schools,
- Retrofit c800,000 existing homes of which 70% are EPC D or below
- 67,000 homes in fuel poverty

Construction contributed £117 billion to the UK economy in 2018 and supports over two million jobs.

Green construction expected to create 1.8m new jobs of which 0.5m in Wider South East.

Energy Transition

In 2018 there were 185,000 full-time workers in England's low-carbon and renewable energy economy (ONS).

LGA forecast that in 2030 across England there could be as many as 694,000 direct jobs employed in the low-carbon and renewable energy economy, rising to over 1.18 million by 2050.

In Essex it is estimated that 15,908 jobs will be required by 2030 and 27,741 by 2050.

CLIMATE COMMISSION LAND USE, GREEN INFRASTRUCTURE, RESILIENCE



LAND USE

Sustainable Land Stewardship practices in agriculture 50 % by 2030; 75% by 2040 and 100% by 2050



BIODIVERSITY

30% of all Land in Essex to be Natural Green Infrastructure by30% by 2040



URBAN GREENING

30% greening of urban space to be green space/ infrastructure



COASTAL **FLOODING**

Acknowledge scale of future coastal change and communicate this to residents



COASTAL FLOODING

Coastal flood resilience schemes in critical areas to be implemented by 2023



FLOODING

34 of flood resilience schemes to be nature based by 2050



RESILIENT PUBLIC SECTOR

Develop nature based adaptation plans for care homes, hospitals, schools, prisons



EFFICIENCY

Include water efficiency measures in energy efficiency retrofit programmes



CLIMATE RISKS

Disclose physical risks: Taskforce on Climate-related Financial Disclosure, or the Adaptation **Reporting Power**



SUSTAINABNL:E DRAINAGE

Make SUDS efault for new developments



RESILIENT PRIVATE SECTOR

Establish a support service on adaptation for businesses

CLIMATE COMMISSION TRANSPORT



Increase Active Travel

Building cycling & walking infrastructure



Increase low traffic neighbourhoods

20 LTNs per annum to 2030



Introduce school streets

25 schools by 2022, and an additional 20 per year to 2050



Expand Park & Choose

3 new Park & Choose (pedal, scoot, strike) sites by 2030



Rebuild Public Transport

Invest in bus recovery



Trial e-bikes / e-scooters

6 pilot schemes across the county by the end of 2020



Discourage unnecessary car use

Parking charging
Road User
Chargng



Expand EV charging network

Deliver a detailed EV strategy



First/last mile delivery

e-cargo bike pilots in five locations by 2022, leading to wider introduction through 2030



Pilot local delivery hubs

Introduce 10 local delivery hubs by 2022



Behaviour change

Develop behaviour change strategy and campaign

CLIMATE COMMISSION ENERGY & WASTE



Solar Panels on Roofs

Install Solar panels on every roof I by 2050 -25% of rooftops by 2030.



Large Scale Solar

Build 1.43 GW of large scale solar on available land by 2030.



Renewable Revolution

Essex self sufficient in renewable energy by 2040,



No Waste Heat

All waste heat to be captured and reused (where local deman l exists) by 2035.



Hydrogen

Create facilities to produce green hydrogen to fuel heavy good vehicles by 2040.



Community Energy

Build a network of community energy neighbourhood s by 2035.



Innovation

Make Essex a centre of innovation for emerging renewable technologies



Recycling

Accelerate recycling activity to achieve a minimum 70% recycling rate by 2030



Recycling

All Essex residents and businesses to have access to kerbside recycling services by 2025



Green Procurement

Evaluate emission impacts in all procurement decisions



Waste Innovation Fund

Plastic substitution, and lotal reprocessing capacity



Behaviour change

Establish a network of communitybased reuse and repair hubs in Essex by 2024.



Collaboration

Develop the Essex Waste Partnership to fully engage with producers, industry and research bodies

CLIMATE COMMISSION BUILT ENVIRONMENT



Existing Schools

50% of schools to be retrofitted to net zero standards by 2025. 100% by 2030



Anchors

All Anchor Institutions to be retrofitted to net zero by 2030



Renewable Revolution

Essex self sufficient in renewable energy by 2040,



Commercial

One Third of commercial buildings to be retrofitted with renewable energy by 2030.



Residential

Two thirds all dwellings to be retrofitted as far as possible to net zero carbon standards by 2030.



Residential

Existing residential buildings- carbon emissions reduction of 50% by 2030. Carbon Zero by 2040.



New Schools

All New Schools commissioned to by Carbon Zero by 2022



New Homes

All New Homes Consented to be Carbon Zero by 2025



New Commercial

All New Commercial Buildings to be Carbon Zero by 2025



New Schools

All New Schools Commissioned to be Carbon Positive by 2030



Carbon +++

All New Homes and non-domestics buildings consented to be Carbon Positive by 2030

ESSEX BUSINESSES



Partnership with University and Businesses



Outline scope for green business opportunity



Provide comprehensive support to businesses so they can make the right choices..



Establish Essex as a centre of excellence for innovation in addressing the climate crisis.



Support for Essex SME to invest in energy efficiency and renewables climate resilience



A climate recognition scheme for businesses should be developed in recognition of climate action taken.

ECC SUPPORTING GREEN GROWTH



Over the course of three facilitated workshops in 2021, ECC is working to create the partnerships and appetite for innovation in Essex focussed on achieving carbon zero outcomes for the County.

The three sessions will focus on bringing together to:



Build the foundations



Enable project delivery



Report, evaluate, disseminate next steps

The most recent workshop held on 7th July focused on bringing forward project concepts to tackle the four key themes that have been identified.

These themes are Waste, Transport, Built Environment & Energy

ECC's New Sector Development Strategy

- The Sector Development Strategy is part of the county's economic recovery programme
- The strategy will set out the economic sectors that Essex should focus on supporting and growing
- The strategy will make recommendations on investment and actions that will deliver real, tangible results for Essex
- The strategy will drive the direction of our wider work across the authority and in our collaboration with our partners

The interim report was announced at Full Council on 13th July and final report is due at the end of Sept 2021. This will set out an action plan for ECC to take forward.





Thank you for joining us!

Follow #EssexSocialValue





For more information:

Visit the Social Value Catalogue at https://www.livingwellessex.org/social-value/

Contact the team at Social.Value@essex.gov.uk



