

## Aberdeen City Council Climate Change Report 2020/21

### RECOMMENDED SECTION – WIDER INFLUENCE

#### Q.1a Historic Emissions

Indicating emission amounts and units of measurement (tCO<sub>2</sub>e) and years.

Emissions of carbon dioxide for local authority areas*													
Sector	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Units
Total emissions	1,696.18	1,531.77	1590.42	1,485.76	1,563.65	1,480.88	1,323.94	1,275.5	1,173.84	1,111.08	1,094.86	1,073.21	ktCO <sub>2</sub> e
Industry & commercial	659.52	584.03	609.97	571.26	603.53	568.22	498.68	457.24	384.22	368.38	341.74	307.50	ktCO <sub>2</sub> e
Domestic	576.91	519.17	550.51	488.17	526.17	506.31	428.80	413.07	385.16	353.55	351.89	341.95	ktCO <sub>2</sub> e
Transport Total	342.24	322.82	315.84	305.94	298.54	293.42	296.56	297.38	300.22	300.62	294.45	326.71	ktCO <sub>2</sub> e
<i>Per Capita</i>	<i>7.93</i>	<i>7.06</i>	<i>7.24</i>	<i>6.68</i>	<i>6.95</i>	<i>6.52</i>	<i>5.78</i>	<i>5.54</i>	<i>5.11</i>	<i>4.86</i>	<i>4.81</i>	<i>4.69</i>	<i>ktCO<sub>2</sub>e</i>

\*UK Local Authority and Regional Carbon Dioxide Emissions National Statistics (subset data)

#### Q.2a Detail wider influence targets

Sector	Description	Type of targets (units)	Baseline value	Start year	Target saving	Target / End year	Saving in latest year measured	Latest year measured	Comments
Waste - domestic	56% of household waste to be recycled through source	%				2025	45.37%	2020	(calendar year)
Waste - domestic	No more than 5% of household waste should be landfilled	%				2025	19.96%	2020	(calendar year)
Active travel	Modal Shift - Private Vehicle to	%	3.3% cycling (2018). 25% walking	2018		2026	4.5% cycling in 2019 for work and education	2019	38% of people walking and 5% of people cycling as main mode

	Active Travel (Cycling/Walking)		(2018) (Cityvoice) to work and education				and 23% walking for work and education		of travel by 2026 (Local Outcome Improvement Plan)
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**Q. 2b Does the organisation have an overall mission statement, strategies, plans or policies outlining ambition to influence emissions beyond your corporate boundaries? If so, please detail:**

### Energy Transition/ Net Zero

- [A Net Zero Vision and Prospectus for Aberdeen](#) was approved at Urgent Business Committee in May 2020. Includes strategic objectives on: leading the global transition; accelerating transition demand; resilient, productive and dynamic place; climate positive exemplar; putting people first.
- [Strategic Infrastructure Plan \(Energy Transition\)](#): was approved at Urgent Business Committee in May 2020. It includes Strategic Infrastructure Goals: clean energy supply for the city, UK and, particularly, globally; Aberdeen’s infrastructure is adaptable to changes in climate; sustainable mobility; building energy efficiency; sustainable waste management. It also includes priority area of Net Carbon Zero - Public Sector.
- Council Committee March 2021 approved the decision: “to develop an Aberdeen Energy Transition and Climate Change Route Map...to meet our ambition to be a Net Zero city and report back to Council before March 2022.” This work is underway and an update on this will be provided in the next reporting period.

### Adaptation

- [Aberdeen Adapts: Climate Adaptation Framework](#) aims to work in partnership to build city resilient to the impacts of current and future climate change. The Aberdeen Adapts project brought together a range of organisations and businesses to identify the specific challenges for the area and the new opportunities that come from a changing climate. The aim is to create a positive and ambitious strategic approach, setting the foundations for long term local partnership working on climate change. This ongoing project complements Powering Aberdeen in ensuring the city is taking action to mitigate and adapt to a changing climate.

### Q.3 Policies and Actions to Reduce Emissions

Please detail any of the specific policies and actions which are underway to achieve emissions reductions targets.

Sector	Start year for policy/action	Year of full implementation	Annual CO <sub>2</sub> saving	Last year measured	Savings in latest year measured	Status	Metric/ indicators for monitoring progress	Delivery role	ISM used ?	Details of behaviour change activity	Value of investment (£)	Ongoing costs (£)	Primary funding source	Comments
Transport	2012	On-going	-	2021	-	In implementation	No. chargepoint installations organised by the Council	Direct	no	<b>Installation and managing <a href="#">network of electric vehicle charge points</a></b> - Aberdeen. 118 (106 in 2020). 80 public, 16 car club only, 22 for fleet	£315,000 2020/21  Further £810,000 since 2012	£75,000	Transport Scotland, Energy Saving Trust (Scotland)	-
Transport	2012	On-going	-	2021	-	In implementation	52 vehicles in March 2021 up from 49 last year. 841 Council employees signed up to March 2021. Increase of 13	Indirect	no	<b><a href="#">Co-wheels Car Club</a></b> . People able to have access to a low carbon vehicle without needing to own one.	£1,076,000	£185,000	Council budgets, Developer Contributions , Transport Scotland, Paths for All, Co-wheels car club	-
Transport	Ongoing	On-going	-	2021	-	In implementation	Number of schemes delivered	Indirect	no	Studies, designs and implementation of <b>Active Travel Infrastructure</b> across the city	-	-	Sustrans, NESTRANS	Spend figures/ delivery 20 / 21 year still to be completed
Transport	2013	2019	115 tCO <sub>2</sub> e	2019	-	Complete	-	Direct	no	<b>Fleet of 10 x hydrogen buses and hydrogen refuelling station.</b> First bus expanding fleet of hydrogen vehicles through the JIVE	21,000,000	closed	Private-Public Sector. Element Energy as project partner are compiling a report that will include the hydrogen bus emissions savings	-

										project. 15 double-decker buses.				
Transport	-	-	To confirm at end of project	20/21	168 tCO2	In implementation	-	Indirect	no	<b>Fuel Cells and Joint Undertaking Project (FCH JU JIVE)</b> - Deliverables: 15 double-decker buses due to be operational	-	-	Funding from FCH JU JIVE project & further money from Air Quality Action Plan	Aberdeen City Council a partner
Transport	2016		To confirm at end of project	20/21	Well to Wheel saving	In implementation	Cenex are monitoring data for all vehicles using the ACHES station. Number of vehicles, fuel efficiency, miles driven, availability of station are also being measured.	Direct	no	<b>Aberdeen City Hydrogen Energy Storage.</b> Council Waste Team, Building Services and City Wardens trialled vehicles as well as Scottish Environmental Protection Agency, SCARF, CFine, NESCol, Sport Aberdeen, RGU, Aberdeenshire Council and NHS.	£2.9million	£103k	Aberdeen City Council	Funding from fuel sales ACC NESTR-ANS Transport Scotland, EU Regional Development Fund
Energy	2021	2023	-	-	-	In implementation	-	Direct	no	<b>District Heating – heat supplied by Energy from Waste plant.</b> First phase of the energy from waste district heating network in Torry. Future phases are planned to connect more homes, businesses and public buildings	-	-	Part funded by ACC and part funding by Scottish Government grant funding	-

										subject to funding availability				
Energy	-	2021	-	--		In implementation	-	Direct	no	Project DORIC, a "whole house" retrofit demonstrator project, in 100 existing council properties to improve fabric and energy efficiency. Installing energy efficiency measures and PVs. Learning about the standards, timescales, cost of retrofit to inform the development of a future retrofit programme. Using smart modelling software and infrared survey techniques to better target resources.	-	-	ACC & UK government grant funding	-
Energy	2002	2021	-	-	-	-	The carbon savings are calculated based on the amount of heat and electricity supplied by the CHP plant operated by Aberdeen Heat and Power.	Indirect	no	Stockethill, Hazlehead, Seaton, Beach and Tillydrone <b>CHP Energy Centres</b> . 3,332 flats/houses are now connected and 29 public buildings and sheltered housing complexes.	-	-	-	Aberdeen Heat and Power established in 2002 providing Combined Heat and Power.
Energy	2019	-	-	-	-	-	tCO2e	-	no	283 new Council homes (Wellheads)	-	-	-	-

										to connect to an <b>onsite CHP energy centre</b> providing district heating (connected to communal heating within the site).				
Energy	-	-	-	-	-	-	-	-	no	36 new Council homes to be incorporating <b>low/ zero carbon renewable technologies</b> e.g. heat pumps and solar PV + battery.	-	-	-	-
Energy	2019	-	-	-	-	-	-	-	no	369 new Council homes to connect to an <b>existing heat network</b> mains (Stockethill Energy Centre) providing district heating.	-	-	-	-
Energy	2021	-	-	-	-	-	-	-	no	A technical and feasibility study to inform <b>hydrogen for heat demand</b> for Aberdeen. Links to the development of the Hydrogen Hub.	-	-	-	-

#### Q.4 Partnership Working, Communications and Capacity Building

Key action type	Description	Organisation project role	Lead organisation (if not reporting organisation)	Private partners	Public partners	3 <sup>rd</sup> sector partners	Outputs	Comments
Partnership working	<b>Net Zero City</b> – Terms of reference for the Net Zero City Leadership Board and Delivery Unit was approved at Urgent Business Committee June 2020	Lead	-	Range of private and public sector partners		-	Partnership working to provide a platform for collective leadership of the drive to a net zero city. and to coordinate the work required.	-
Partnership working	<b>North East Scotland Fleet Review (Hydrogen Demand)</b> . A H2 Aberdeen study to bring about an increased demand of hydrogen in north east Scotland, through the Aberdeen Hydrogen Hub.	Lead	-	Opportunity North East, Royal Mail	Scottish Water, Scottish Enterprise, Aberdeenshire Council, Highland Council, Angus Council, Moray Council, NHS Grampian, Robert Gordon University, North East Scotland College, Scottish Environment Protection Agency, NatureScot	-	The Fleet Review part of the project aimed to deliver a commercial supply of green hydrogen in north east Scotland, initially for transport uses.	<a href="https://www.aberdeencity.gov.uk">Proposal Template (aberdeencity.gov.uk)</a>
Partnership working	<b>HyTrEc2</b> . Supporting the further use of Hydrogen Fuel Cell Electric Vehicles (FCEVs).	Lead	-	Partners from the UK, Germany, The Netherlands, Sweden and Norway are working together to support the use of Hydrogen in the transport and energy sectors in the North Sea Region (NSR).			Deployment of hydrogen vehicles, green hydrogen production and storage, development of hydrogen refuelling stations and training.	<a href="#">Interreg North Sea Region Project</a>
Partnership working	<b>JIVE – Fuel Cell &amp; Hydrogen Joint Undertaking</b> . To advance the commercialisation of fuel cell buses through large-scale deployment of vehicles and infrastructure	Participant.	-	The project consortium comprises 22 partners from seven countries.			Deliverables: hydrogen double decker buses. JIVE will run for six years from January 2017.	<a href="https://www.fuelcellbuses.eu/projects/jive">https://www.fuelcellbuses.eu/projects/jive</a>

Partnership working	<b>Smart HyAware.</b> Promoting hydrogen electric mobility by tackling the main infrastructural -and technological and market uptake barriers related to hydrogen for electro-mobility.	Participant.	-				Deliverables: update the Hydrogen Strategy with extensive stakeholder engagement and increase awareness of hydrogen potential throughout the city region.	Interreg Europe Programme.
Partnership working	<b>HECTOR project</b> – Hydrogen Waste Collection Vehicles in North West Europe	Lead	-	Partners: Aberdeen, Scotland; Groningen, Netherlands; Arnhem, Netherlands; Duisburg, Germany; Herten; Germany; Touraine Vallee de l'Indre France; Brussels, Belgium			Deliverables: hydrogen fuel cell waste truck, development of training and operational recommendations, business case for upscaling based on real life operational data.	<a href="#">Interreg North West Europe Project</a>
Partnership working	Participant and leader of the Aberdeen City EU-funded <b>Civitas PORTIS project</b> . To develop innovative low carbon transport solutions, helps to encourage partnership working across the north east. Helps to better promote the Council on an international scale and learn from other partners in the project.	Lead	-	Aberdeen Harbour Board	Aberdeen City Council, Aberdeenshire Council, NESTRANS, Robert Gordon University, University of Aberdeen	-	Work packages. WP1 SUMP and Port Optimisation WP2 Less Car-dependent Mobility WP3 More Efficient and Cleaner Transport WP4 More Efficient Freight Transport WP5 Sustaining Innovation WP6 Impact and Process Evaluation WP7 Knowledge Share and Take-up WP8 Comms and Dissemination WP9 Co-ordination and Management	<a href="https://civitas.eu/portis/aberdn">https://civitas.eu/portis/aberdn</a>
Partnership working	<b>Getabout Partnership.</b> Sustainable travel brand promoting walking, cycling, use of public transport, lift share. This helps the Council realise the aims and objectives of its Local Transport Strategy and Active Travel Action Plan	Participant	<a href="#">Getabout Partnership</a>	-	Aberdeen City Council, Aberdeenshire Council, University of Aberdeen, Robert Gordon University, North East College, James Hutton Institute, Energy Saving Trust, NESTRANS, NHS	-	Getabout brand	Investment into partnership - around £198,000. Smarter Choices, Smarter Places funding from Transport Scotland/ Paths for All
Partnership working	<b>Co-wheels car club.</b> Car club in Aberdeen and	Participant	Co-wheels car club	<a href="#">Co-wheels car club</a>	-	CoMo	City Car Club. Gives residents access to a shared vehicle.	Investment into partnership -



	associated promotion of this.							Around £185,000 per year by Council
Partnership working	<b>EV chargepoint Network.</b> External funding allows the Council to provide a recharging network for electric vehicles to encourage their uptake.	Lead	-	Swarco, Siemens, BMM Energy Solutions, BP Chargemaster	Transport Scotland, Energy Saving Trust (Scotland) Electric Vehicle Association Scotland (EVAS) European Union	-	<a href="#">EV chargepoint network</a> . Supporting electric vehicles and encouraging a shift away from diesel and petrol cars.	Investment into partnership - £1,125,000 by Council
Partnership working	<b>Facilitating Active Travel Infrastructure</b>	Participant	Aberdeen City Council	-	NESTRANS, Sustrans, Transport Scotland	-	Active Travel infrastructure studies, designs and physical infrastructure to encourage more walking and cycling.	-
Partnership working	<b>Aberdeen Renewable Energy Group (AREG).</b> AREG works closely in partnership with the Council to identify and help facilitate the delivery of projects that could provide additional renewable energy infrastructure.	Lead	-	Membership directory: <a href="https://www.aberdeerenrenewables.com/members/full-member-directory/#!directory">https://www.aberdeerenrenewables.com/members/full-member-directory/#!directory</a>			Aberdeen Renewable Energy Group working to ensure businesses in Aberdeen City and Shire capitalise on opportunities in renewable energy.	<a href="https://www.aberdeerenrenewables.com/">https://www.aberdeerenrenewables.com/</a>
Partnership working	<b>ACE- retrofitting</b>	Participating	-	European association of Local Authorities in energy transition – will work with six partner Local Authorities from five different countries in North West Europe (NWE).			A European funded project to tackle energy efficiency in flats and tenement buildings.	<a href="#">Interreg North West Europe</a>
Partnership working	<b>HeatNet NWE</b>	Participating	-	<a href="https://www.nweurope.eu/projects/project-search/heatnet-transition-strategies-for-delivering-low-carbon-district-heat/">https://www.nweurope.eu/projects/project-search/heatnet-transition-strategies-for-delivering-low-carbon-district-heat/</a>			Local district heating network.	
Partnership working	<b>Dee Catchment Partnership.</b> Effective management and conservation of the river Dee and its surrounding environment, including natural flood management.	Supporting	Dee Catchment Partnership	Aberdeen Harbour Board, National Farmers Union Scotland	Aberdeenshire Council, Cairngorms National Park Authority, Scottish Forestry James Hutton Institute,	Royal Society for the Protection of Birds (RSPB), Dee District Salmon Fishery Board	Dee Catchment Management Plan and Partnership. Natural Flood Management.	<a href="https://www.deepartnership.org/about-us/our-partners/">https://www.deepartnership.org/about-us/our-partners/</a>

					Scotland Rural College (SRUC), Scottish Environment Protection Agency, Scottish Government, Scottish Natural Heritage, Scottish Water			
Partnership working	<b>North East Scotland Biodiversity Partnership (NESBiP)</b> . Tackling threats to biodiversity and facilitating conservation action for local biodiversity.	Participant	Coordinator, hosted by James Hutton Institute	2 independent individual members, James Hutton Institute	NatureScot, Scottish Forestry	RSPB, Scottish Wildlife Trust, East Grampian Coastal Partnership, NFU Scotland	NESBiP's Strategic Delivery Plan and actions complement the Council's environmental and community objectives and helps to support land-use planning duties.	<a href="https://www.nesbiodiversity.org.uk/">https://www.nesbiodiversity.org.uk/</a>
Partnership working	<b>Sustainable City Group – Community Planning Aberdeen</b>	Participant			Aberdeen City Council, Scottish Fire and Rescue Service, NESTRANS, SEPA, NHS Grampian, NatureScot	Active Aberdeen Partnership, ACVO, Cfine	Lead and be responsible for actions which support delivery relevant outcomes of the Local Outcome Improvement Plan (LOIP).	<a href="https://communityplanningaberdeen.org.uk/sustainable-city-2/">https://communityplanningaberdeen.org.uk/sustainable-city-2/</a>
Partnership working	<b>North East Scotland Area Advisory Group</b> . Local River Basin Management.	Participant	SEPA	<a href="https://www.sepa.org.uk/media/75414/doc-7-north-east-area-advisory-group-membership-list.pdf">https://www.sepa.org.uk/media/75414/doc-7-north-east-area-advisory-group-membership-list.pdf</a>			Working together to ensure water bodies achieve a certain ecological status.	-
Partnership working	<b>North East Scotland Area Advisory Group</b> . Local Flood Risk Management Plan	Participant	SEPA	<a href="https://www.sepa.org.uk/media/75414/doc-7-north-east-area-advisory-group-membership-list.pdf">https://www.sepa.org.uk/media/75414/doc-7-north-east-area-advisory-group-membership-list.pdf</a>			Working together to prevent and alleviate flooding.	-
Partnership working	<b>Ness Energy Project</b> . Energy from waste facility	Participant	-	-	Aberdeenshire and Moray Councils	-	Treatment and recovery of residual waste to produce heat and electricity by the three authorities in the north east of Scotland.	<a href="http://nessenergy.co.uk/">http://nessenergy.co.uk/</a>
Partnership working	<b>Sustainable Food Places Partnership Aberdeen</b>	Participant	-	Enscape Ltd	Council Aberdeen Health & Social Care Partnership	Community Food Initiatives North East (CFINE)	Seeks to develop high-level co-ordination and influence over food policies and practises in Aberdeen.	<a href="https://www.sustainablefoodplaces.org/Portals/4/Documents/Sustainable%20Food">https://www.sustainablefoodplaces.org/Portals/4/Documents/Sustainable%20Food</a>

					NHS Grampian's Public Health Directorate Robert Gordon University	The Allotment Market Stall Tillydrone Community Flat		<a href="#">%20Partnership%20Aberdeen%20MoU.pdf</a>
Capacity Building	<b>Hydrogen Economy for Aberdeen.</b>	Lead	-	First Group, Stagecoach	Scottish Government, NESTRANS, European Regional Development Fund, Office of Low Emission Vehicles.	-	To develop the supply chain for a hydrogen economy in Aberdeen.	<a href="http://www.h2aberdeen.com/home/H2-Aberdeen-hydrogen-economy.aspx">http://www.h2aberdeen.com/home/H2-Aberdeen-hydrogen-economy.aspx</a>
Communication	<b>Sustainable Transport.</b> Raising awareness of how to better use city space and a range of sustainable transport modes	Lead	-	Many including Co-wheels car club, Stagecoach, First bus	Aberdeen City Council, NESTRANS, Sport Aberdeen, Aberdeenshire Council, Home Energy Scotland	-	Awareness raising of sustainable transport with radio adverts, promotional items, walking maps, Walking Map app development, I-Bike Officer, Travel Tracker, cycle training, car club promotion, car club vehicle subsidy in regeneration areas, car club public transport awareness	Monies brought in using CIVITAS PORTIS EU funded project as the match fund
Communication	Scottish Cities Alliance – <b>Peer to Peer Network</b>	Lead						
Partnership working	<b>Aberdeen Fairtrade Steering Group</b>	Partner	Aberdeen Fairtrade Steering Group					

**Q.5 Please detail key actions relating to Food and Drink, Biodiversity, Water, Procurement and Resource Use in the table below.**

Key action type	Key action description	Organisation's project role	Impacts	Comments
Food and Drink	Granite City Growing	Lead	Implementation of a food growing strategy for the city encompassing allotments, communities and urban farming.	Ongoing initiative <a href="https://www.aberdeencity.gov.uk/services/environment/food-growing-strategy">https://www.aberdeencity.gov.uk/services/environment/food-growing-strategy</a>
Biodiversity	Hazlehead Grove Nursery	Lead	Providing an opportunity to develop life skills and learning opportunities for people, through various activities including plant cultivation and other horticultural related activities for the benefit of the city's parks and open spaces and an outdoor educational space.	Ongoing initiative

Biodiversity	North East Scotland Biodiversity Records Centre (NESBReC)	Participant	NESBReC collect, store, manage and disseminate biological data for various organisations including local authorities.	<a href="http://www.nesbrec.org.uk/">http://www.nesbrec.org.uk/</a>
Biodiversity	Managing non-native invasive species	Lead	Countryside Ranger Service work to manage invasive non-native plant species across the City.	
Food and Drink	Sustainable Food Cities	Participant	The initiative promotes a sustainable approach to food and could see more local food growing projects, organic food, less food waste, less food transportation and stronger links between consumers and local producers. A reduced footprint will reduce city-wide carbon emissions.	<a href="http://sustainablefoodcities.org/findacity/cityinformation/userid/462">http://sustainablefoodcities.org/findacity/cityinformation/userid/462</a>
Food and Drink	Aberdeen Fairtrade City	Participant	The Council reaffirmed its support for Fairtrade Buying more Fairtrade supports an income stream and engagement with communities in developing countries. This gives them more opportunity to adapt to a changing climate and to pursue low carbon solutions relevant to their needs. This is an on-going initiative.	Ongoing initiative
Food and Drink	Community Food Growing	Lead	Several projects aimed at developing new community growing spaces in Aberdeen as part of the delivery of a Food Growing Strategy.	Ongoing initiative