

Dundee Tourism and Climate Change

Naomi Clarke
Sustainability and Climate Change Officer

City-wide Sustainable Energy & Climate Action Plan

4

STRATEGIC
THEMES



- Global Covenant of Mayors for Climate and Energy
- Signed 19th March 2018
- Collaboration between public, private and third sector organisations
- Commits city to 40% emissions reduction by 2030
- Commits the city to develop a ‘Sustainable Energy & Climate Action Plan’ (SECAP)
- Commissioned Greenhouse Gas Inventories and future projections for Dundee

Dundee 2030: SECAP Workshop

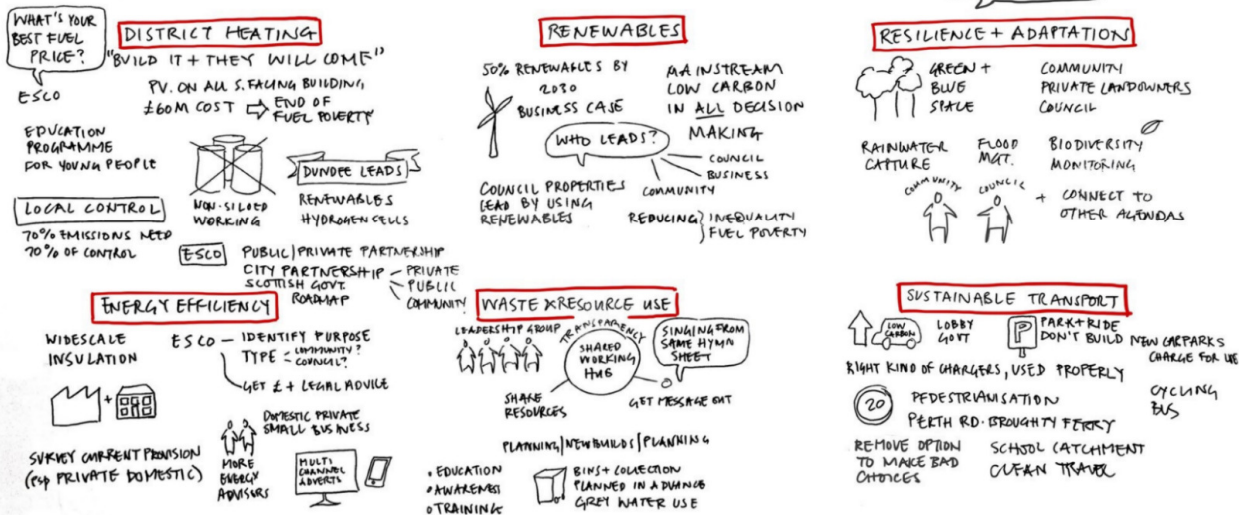


**Dundee
2030**

Envisioning
a Low Carbon
Future

- 50 Participants
- 20 Organisations representing public, private and community sectors
- Over 100 actions defined across the themes
- Mitigation and Adaptation actions

CO-DESIGNING A LOW-CARBON FUTURE FOR DUNDEE



Mitigation Actions

Actions taken to prevent or reduce the release of greenhouse gases



Mitigation Support : Energy and Waste

Resource Efficient Scotland provides FREE services and support:

- Free 1-2-1 assessment on energy, waste and water saving opportunities.
- The Waste Prevention Implementation Fund provides 100% grant funding for equipment that helps prevent, reduce or reuse waste such as more modern efficient equipment, upgrading or re-design of machinery, reusable packaging.
- SME interest free loans available up to £ 100,000 (currently with 15% cashback) for energy saving measures e.g. new heating system.
- Funding for circular economy projects through the Circular Economy Investment Fund, e.g. sharing/leasing of products instead of ownership visit www.zerowastescotland.org.uk/



Resource Efficient Scotland:

Call 0808 808 2268

Email enquiries@resourceefficientscotland.com

Visit www.resourceefficientscotland.com

Mitigation Support : Mobility

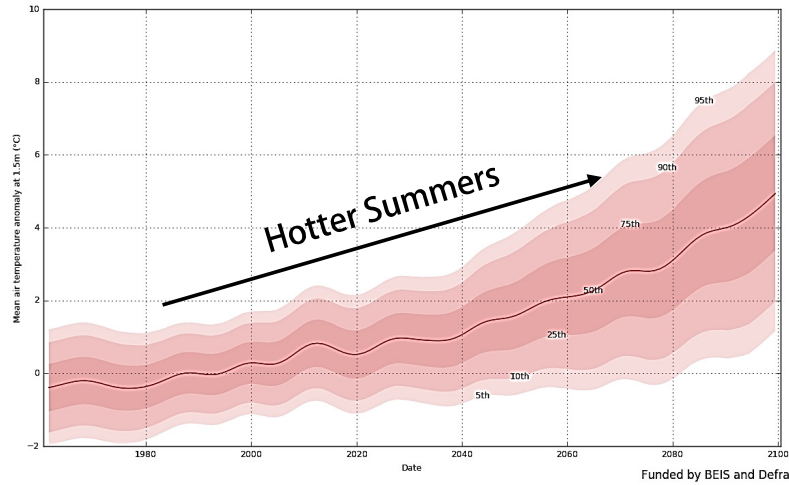


- Workplace travel plans
- Cycle to work scheme
- Active Travel Campaigns

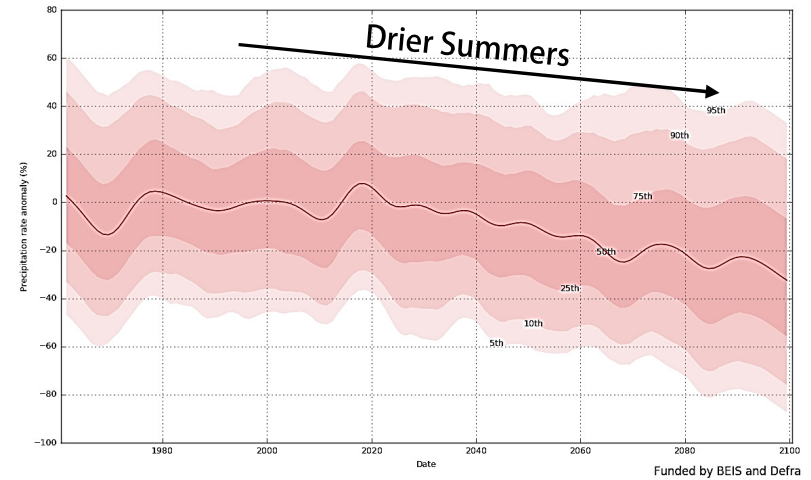
<https://www.sustrans.org.uk/scotland/workplaces>

Met Office Climate Projections for Dundee

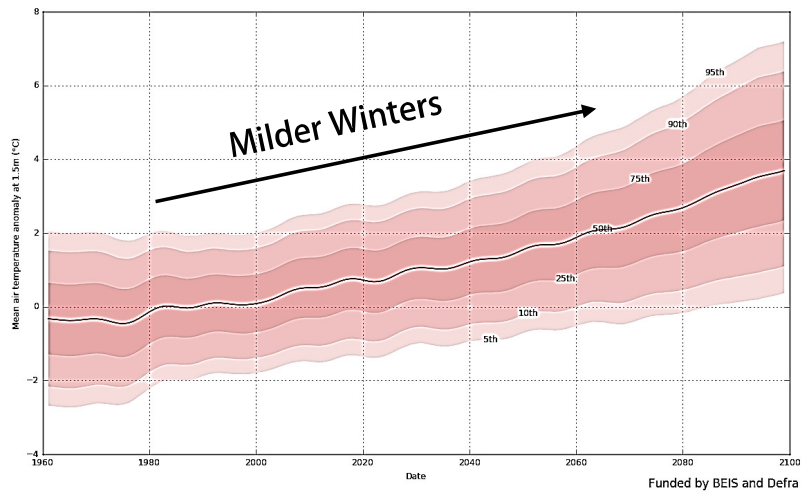
UKCP18 climate projections for Dundee in a high emissions scenario, showing expected change in mean precipitation and daily temperatures for the 21st century.



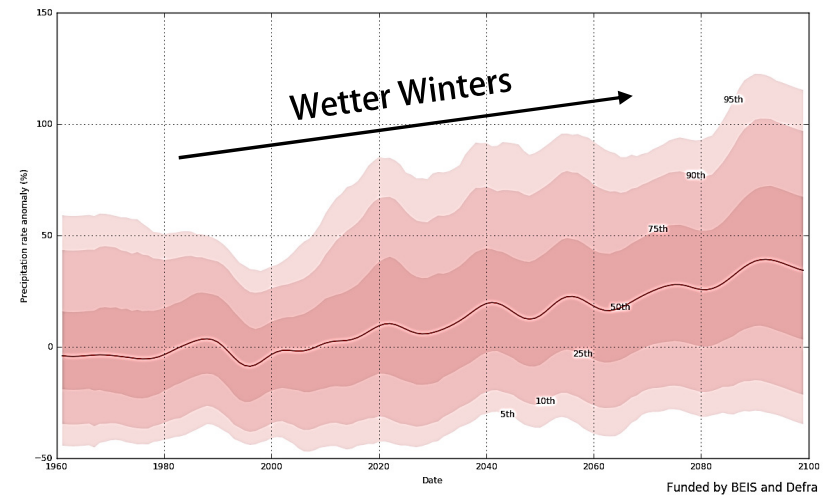
Mean summer air temperature 1961-2100



Average summer precipitation 1961-2100



Mean winter air temperature 1961-2100



Average winter precipitation rate 1961-2100

Adaptation Actions

Actions taken to increase resilience of societies, as well as the built and natural environment, to a changing climate.



Risk and Vulnerability Assessment

Impacted Policy Sector	Expected Impacts	Likelihood of Occurrence (Unlikely, Possible, Likely, Not known)	Expected Impact Level (Low, Moderate, High, Not known)	Timeframe (Current, ST, MT, L, Not known)	Proposed Indicators	Proposed Actions
Tourism <small>Refers to the activities of person travelling to and staying in places outside their usual environment for not more than 1 year for leisure, business and other purposes not related to the exercise of an activity remunerated from within the place visited.</small>	1. Extreme weather impacting tourist activities due to closure of buildings related to tourism such as museums	Likely	Moderate	MT	% change of tourist activities.	Develop an interactive green map for Dundee to help visitors and residents make sustainable choices for food, travel, recreation and resource use. Develop a communication plan to keep visitors informed of disruptions and alternative options available via the Association of Scottish Visitor Attractions and Dundee Cultural Agencies Network. SMART Mobility to include co-ordinated communication of transport information and quicker demand response options.
	2. Climate impacts on tourist related businesses such as hotels & hospitality, retail and attractions including weather proofing, transport disruptions, disruption to suppliers, higher maintenance and cooling costs.	Likely	Moderate	MT	Number of weather related attraction closures.	Update the Green Tourism accreditation to incorporate climate adaptation to ensure businesses are climate ready. Work with the Dundee Tourism Action group to help business prepare for climate change. Support local community growing hubs and local food businesses. Issue design guidelines for buildings and new builds to incorporate climate adaptation measures e.g. rooftop gardens.
	3. Higher water demand due to drier summers and increased population	Likely	Moderate	MT	% water use increase.	Strategic water refill points installed and promoted.
	4. Higher costs for maintenance and repair due to higher rainfall, extreme heat and storms	Likely	Moderate	MT	Increased maintenance costs for tourism related industry.	Enter shared surface water drainage system and maintenance agreements with Scottish Water where appropriate.
5. Sea level rise risk on waterfront tourist venues e.g. V&A	Likely	Moderate	MT	% change in sea level.	Maintenance of coastal flood defences (raised sea wall) designed for protection of the waterfront.	
6. Loss of beach cover	Likely	High	MT	% beach cover change	Replenish and recreate dunes as part of the Dundee Coastal Flood Protection Scheme	
7. Reduction of bathing water quality	Possible	Moderate	MT	Number of water quality warnings.	Improve Dundee's Public Sewer and Mains Water systems to improve drinking water quality and reduce sewage discharge to the water environment; continued communication of water quality information via the electronic display at Monifieth, SEPA website and Dundee City Council signage and social media.	
8. Tourist sector opportunities from increased numbers of visitors due to warmer, sunnier climate.	Likely	Moderate	ST	Visitor numbers. Number of Green Tourism Award holders in Dundee.	Update the Green Tourism accreditation to incorporate climate adaptation to ensure businesses are climate ready. Work with the Dundee Tourism Action group to help business prepare for climate change.	

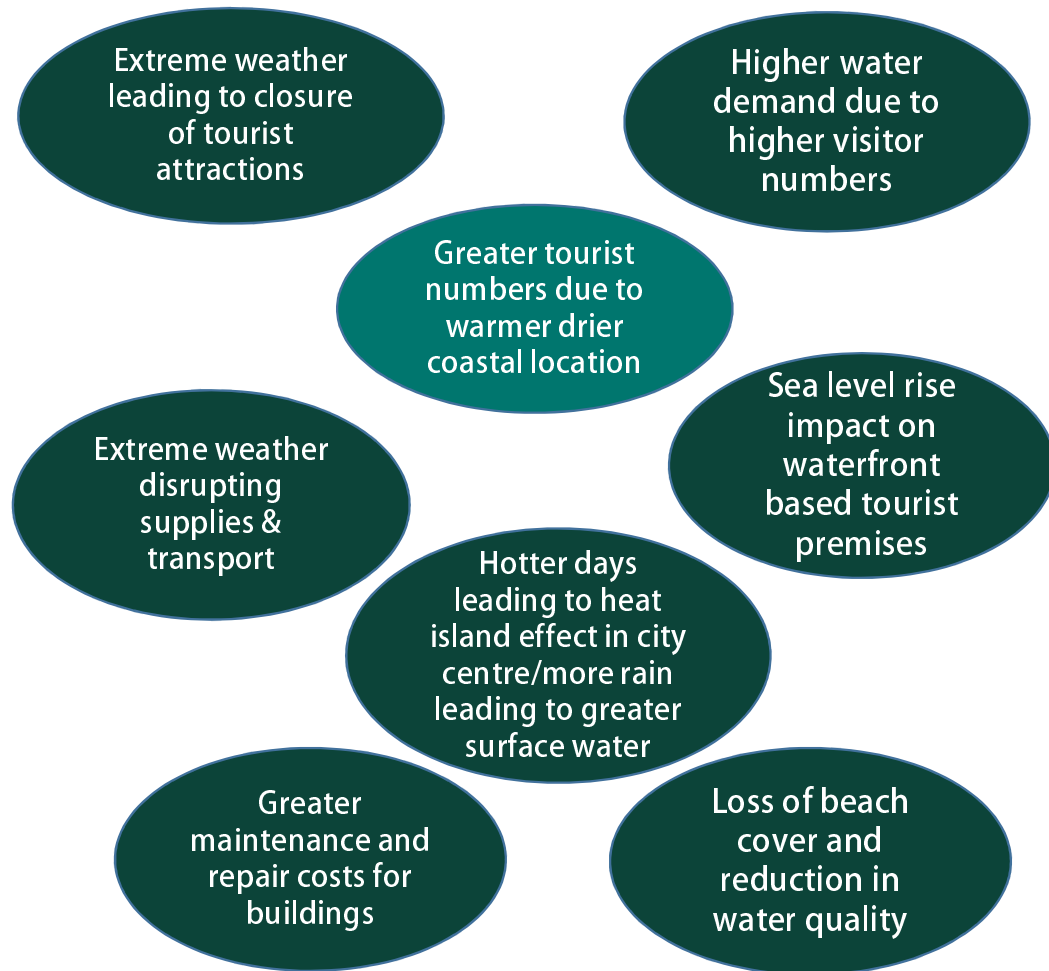
10 Policy sectors

- Buildings
- Energy
- Transport
- Waste
- Water
- Land Use Planning
- Food and Biodiversity
- Health
- Civil protection and Emergency
- Tourism

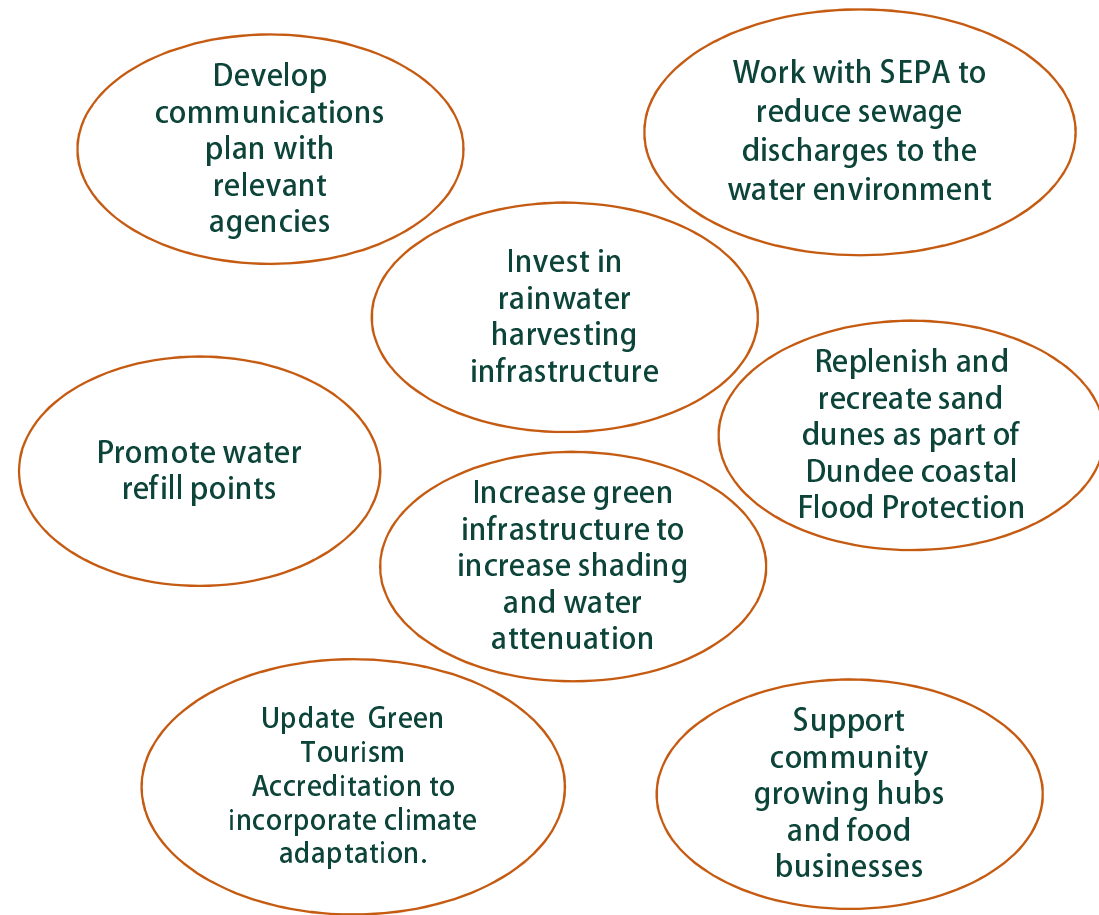
Looking at the expected impacts of the changing climate, actions to overcome these impacts and how we can measure them.

Tourism Sector Impacts and Actions in Dundee

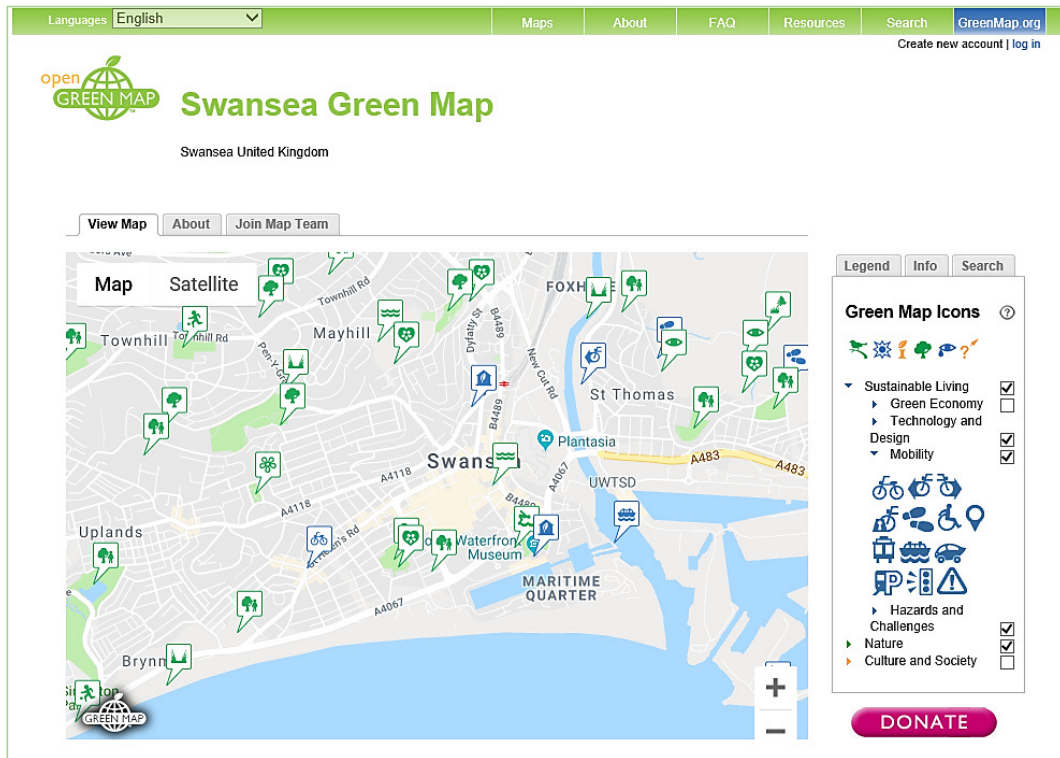
Impacts



Examples of Actions

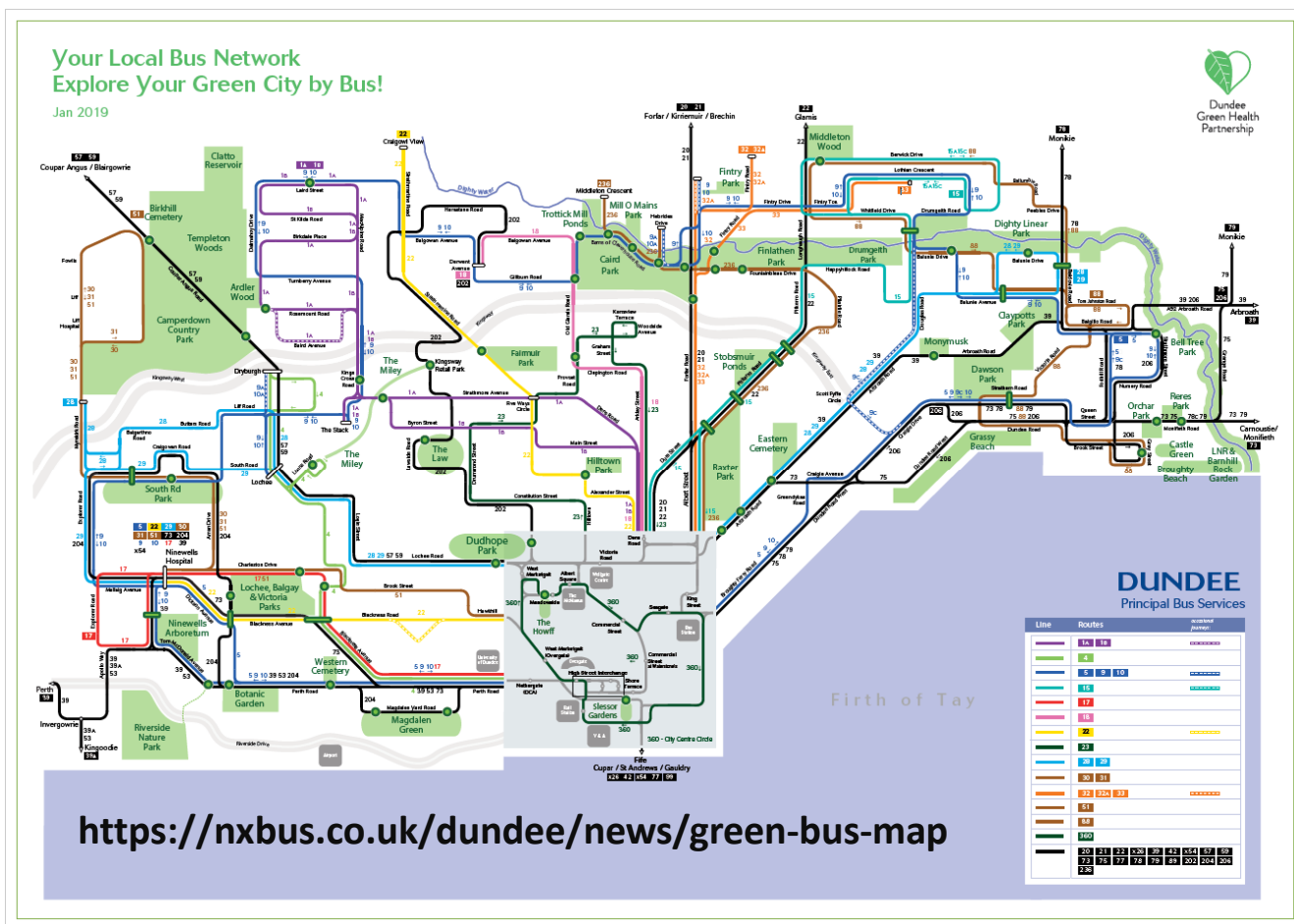


Sustainable Dundee — Interactive Green Map



- Tourist attractions
- Cycle routes
- Cycle hire
- EV Charging points and car hire
- Green spaces
- Community food growing sites
- Recycling points
- Eco Shops(e.g. charity shops).
- Water refill points
- Community centres and resources
- Link to ShareMobility App

Sustainable Dundee — Green Bus Map



As well as being home to trees, flowers and wildlife, Dundee's parks and green spaces also offer some historical treasures - including castles, pavilions and even bridges, as well as family events such as the Easter fun day at Camperdown, or the ParkLives programme of sporting activities across the city.

How to Climate Proof Your Business

PEOPLE

Staff unable to get to work, how will your business operate?

PREMISES

Greater flooding risk but potential for reduced bills in winter

MARKETS

Extended tourist season opportunities and longer growing seasons

FINANCE

Insurance that covers for flood and storm events if possible

PROCESS

Check IT and other equipment is well ventilated and away from leaks

LOGISTICS

Not being able to access supplies — look at diversifying suppliers



www.adaptationscotland.org.uk

sustainability@dundeecity.gov.uk



[@sust_dundee](https://twitter.com/sust_dundee)



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