



Climate Change Centre Reading
17 Newbury Close
RG10 9RT
Berkshire
(Reading, United Kingdom 12-12-17)

Reading_ECO4CLIM17 - Ecopreneurs for the Climate 2017 - 19 Oct 2017 - Global
#Eco4ClimRD Climate Innovation +Jobs Strategy Outcome Document 12 December 2017

To:

Reading Borough Council

(Strategic Environment, Planning & Transport Committee)

Civic Offices, Bridge Street, Reading RG1 2LU

SUGGESTED CLIMATE CHANGE STRATEGY 2.5:

December 12, 2017 (RE: RE: ltr-carl emerson-dam - reading climate change strategy)

Ecopreneurs for the Climate in Reading - Climate LAB

19 October 2017 - "Better City - Better Life" ~Shanghai Expo 2010

Preamble:

C40 Cities / Covenant of Mayors (Compact of Mayors) / WRI / ICLEI / Eurocities / UCLG and many more open city organisations have acted since the **Paris Agreement** to advance mitigation objectives #OnePlanet🌍

Carbon policy options are available for countries to implement even relatively ambitious mitigation targets

There is potential for open cities to go beyond their government's Nationally Determined Contributions (NDCs) targets

Governance and institutional arrangements must be significantly innovative for countries to achieve their goals

Why we "glocally" have an urgent duty to adopt the Sust. Development Goals,

Goal 13: Take urgent action to combat climate change and its impacts

Goal 11: Make cities open, inclusive, safe, resilient and sustainable

Goal 2: End hunger, achieve food security and improved nutrition - Kindly see;

<http://www.un.org/sustainabledevelopment/blog/2016/12/city-mayors-strengthen-efforts-to-tackle-climate-change>

Suggested #Eco4ClimRD Climate Innovation +Jobs Strategy 2.5

- A) Key A-M for Reading #CitiinCiti p.2
- B) Local targets 2018-20-26-50 for mitigation/adaptation and ecology p.2-5
- C) Action Framework for Implementation of the **New Urban Agenda** p.6
- D) 10 recommendations for Planning for the climate challenge p.7
- E) Glocal targets Goal 13 and 11 and 2 p.8



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4 (your) I's only:

Complete decarbonisation of the local economy (Zero Carbon) 2026-50, which is necessary to avoid the gravest climate risks, can only be achieved by profoundly - transforming energy systems and other high-emissions infrastructures. This transformation could inspire **Innovation** and channel **Investment** into sustainability and climate protection, and into the kinds of sustainable **Infrastructure** (accessibility)* that need to be established and expanded. At the same time, the transformation could combat inequality and promote **Inclusion** within societies and “globally”, thus becoming an equity project. See page six: Action Framework for Implementation of the **New Urban Agenda** (AFINUA).

A.

A. Key A-M for Reading #CitiinCiti to Suggested #Eco4Clim_RD Climate Innovation +Jobs Strategy 2.5 can be found here: <http://tvb-climatechallenge.org.uk/kevcitiinciti>

B. Shape Reading by 2018

Acknowledgement of open pledge to respect and honour [The Paris Agreement](#)** was formalised on the 12th December 2015. It has entered force on the 4th November 2016 and is now bound into Law of Treaty. “England’s planning system is not effectively engaging with current risks and is simply disengaged from its core task of addressing long-term future change. The system remains critically unprepared to deliver both carbon dioxide emissions reduction and the **urban resilience measures** needed to deal with the scale of the climate change impacts anticipated in the UK, as identified by the scientific evidence.” 70% of carbon emission come from cities, this require adequate urban governance. Reading Borough Council (RBC) needs to fast track actions now towards a 100% sustainable Reading. The plotting System of land and Planning Applications must have mitigation/adaptation (M,A) and ecological consent. All new-build developments should be passive housing in the same area, min. LEED Gold standard - **OBJECTIVE 2020: READING BOROUGH TO COMMIT TO ECOLOGY**

A. Climate change: Mitigation & Adaptation, L. Integrated Environmental Management

Shape Reading by 2020:

Empower the local government to create an Inclusive Accessible High-Density Open City with a holistic, citywide approach to increase Renewable energy generation and energy efficiency that addresses the problem of fuel poverty in under- privileged households. (social inclusion and access to water, sanitation or electricity in high-risk areas) and shared affordable development in accordance with [the New Urban Agenda](#), the UN Habitat III framework. Implement strategies to meet and monitor the Sustainable Development Goals: Substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans, re-thinking housing (10 storeys or more, passive and



modular), towards inclusion, resource efficiency, mitigation and mainstreaming adaptation measures to climate change, **resilience to disasters**, and develop and implement, in line with the **Sendai Framework** for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels. Conduct a vulnerability and risk assessment of infrastructure, community -resources, -services and residents; and identify adaptation actions that will address the identified risks across sectors - Strengthen Financial Capacity for Resilience.

- 1) Comprehensive Cycle Network with ecological trails. Public transportation with shelters providing real-time information **M,A** Consortium of Green Business contributes to Open Innovation Strategy
B. Local transport L. Integrated Environmental Management
- 2) Weekly Car-Free Work-Day, instigated by the Council. Introduce a series of lunch time walks with a local ecologist
A. Climate change: Mitigation & Adaptation, B. Local transport, E. Ambient air quality
- 3) 25% Energy Self-Sufficiency from Berkshire RENEWABLES (PV roofs rather than panels) and Storage
A. Climate change: Mitigation & Adaptation, K. Energy performance
- 4) 25% Food Vegan Self-Sufficiency. Rooftop farming. Install free tap water fountains across Reading
A. Climate change: Mitigation & Adaptation, B. Local transport, H. Water management
- 5) Complete pesticides, Monsanto and shale gas extraction ban
D. Nature and biodiversity
- 6) 50% of new homes Passive (energy efficient modular houses)
A. Climate change: Mitigation & Adaptation, K. Energy performance
- 7) Dedicate Reading's first city area to carbon neutrality (district heating). A green city zone, water infiltrations showcase area. Geothermal energy/Heat pumps enough for all of Reading dwellers!
A. Climate change: Mitigation & Adaptation, K. Energy performance
- 8) Hydro-electric up and running. RD sustainable festival scheme
A. Climate change: Mitigation & Adaptation, K. Energy performance, L. Integrated Environmental Management
- 9) All street lighting maximum 3000K CCT + switched off/dimmed after midnight (BLACK NETWORK) Downlighters **D. Nature and biodiversity**
- 10) Waste collection system based on same county rules. Waterways collect the waste resources to value processing of organic waste. Landfill diversion 35% of waste **G. Waste production management**
- 11) Monitoring SDG indicators, a variety of sensors, e.g. to make sure toxic pollution from city growth activities does not increase. Protect the rural Reading and green space between settlements from large-scale development. Mixed land use ect. **M,A**
A. Climate change: Mitigation & Adaptation, C. Green urban areas incorporating Sustainable Land Use, E. Ambient air quality, I. Waste water management, L. Integrated Environmental Management
- 12) Using natural refrigerants in refrigeration and air conditioning (RAC) sector
A. Climate change: Mitigation & Adaptation, E. Ambient air quality, I. Waste water management, K. Energy performance, L. Integrated Environmental Management

*"Improve our understanding of climate risks and **opportunities for innovation**.*

*Continue ongoing work into **innovative phosphorus treatment trials** for treating sewage effluent 2018 – 2020. **Assess innovation opportunities** that prevent, detect or improve our response to incidents, and build these into existing improvement projects or new research projects 2018 – 2020. Input into a review on **local innovative climate-Friendly construction materials** to assess whether they can improve the performance of assets, extend design life and reduce on-going maintenance costs 2018 – 2020. Update our sustainable procurement guidance and tools to incorporate the consideration of those category purchases which have a high vulnerability to climate related risks that may affect the goods, services and works we buy, seeking alternatives **through innovation** and market development where relevant. 2018 – 2020~EA UK"*



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- 12) Address how existing armed forces and military reserves (civil) can become an urban stakeholder resource through sustainable and transformative partnership w/ the civil society and local authorities
A. Climate change: Mitigation & Adaptation
- 13) Public Organic farming, Char grow, Hemp cultivation and biological corridors (BROWN NETWORK) **M,A**
C. Green urban areas incorporating Sustainable Land Use, D. Nature and biodiversity
- 14) Diverse Eco-friendly light, heat reflective building materials and pillar construction
A. Climate change: Mitigation & Adaptation
- 15) Call for ban on wood-burning stoves in a bid to improve Reading's Air Quality levels Chimneys Removal by Design Programme (Clean Air / Heat Efficiency)
K. Energy performance
- 16) Improve Greater Reading's indoor/outdoor environment with noise assessment in residential and public buildings
F. Quality of the Acoustic and Lighting Environment
- 17) Between 2018-20 Focus more on Ride-Sharing, cities are getting increasingly congested due to single-occupancy car trips. Council-run cargo bike delivery service for transport of goods.
B. Local transport, E. Ambient air quality
- 18) 50% Green public institutions that have divested/invested. The Borough Council involved in own local divestment campaign, pensions, Rdg UNI etc.
A. Climate change: Mitigation & Adaptation, L. Integrated Environmental Management
- 19) All children in Reading to walk to school safely (adding climate change to the curriculum) **M,A**
C. Green urban areas incorporating Sustainable Land Use
- 20) **CHALLENGE: SET OUT A CLEAR VISION COMPETITION Reading 2026** for every local resident to get behind and support. W/ three main criteria: energy, sustainability, urban resilience and aesthetics.
- 21) A walkable (modal access only) central public recycling facility/park, points system linked > "library of things"
G. Waste production and management, J. Eco-innovation and sustainable employment
- 22) A meat free zone in the city center (Vegan life style) with repair-, second hand and eco-shops. Where residents can reduce, reuse, recycle or lease all their belongings **F. Quality of the Acoustic and Lighting Environment J. Eco-innovation and sustainable employment, M. Sharing Economy**
- 23) Incorporate parkland for biodiversity conservation in its overall climate change strategy 2.0 **M,A**
A. Climate change: Mitigation & Adaptation, D. Nature and biodiversity, J. Eco-innovation and sustainable employment
- 24) Partner in BOB "City Resilient" regional network safeguarding every local resident from forthcoming hazards to become disasters - Urban resilience.
A Climate change: Mitigation & Adaptation
- 25) Understanding disaster risk factors, Resilience Action Planning at the local level. Prepare an urban climatic emergency evacuation plan, should be preceded by skilled and realistic capacity building effectiveness drills due to post-evacuation, considerations and evaluation.
A Climate change: Mitigation & Adaptation

Shape Reading by 2026-30:

Connect regional and local open city grids and networks to fulfil Agenda 2030 Global Goals. Fully developed partnership governance

- 1) Urban habitats for declining species, created with local soil, compost and deadwood
D. Nature and biodiversity
- 2) Car Free Town Centre, sustainable public transport systems for all
B. Local transport, E. Ambient air quality



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- 3) Comprehensive Tram/Podcar/Monorail Network “Garden Ring”
B. Local transport, E. Ambient air quality
- 4) 50% Energy Self-Sufficiency from RENEWABLES
K. Energy performance
- 5) 50% Food Self-Sufficiency. Rooftop Farming. Sharing land and growing food homegrown economy
L. Integrated Environmental Management, M. Sharing Economy
- 6) 75% of all new homes Passive House or better (energy efficient modular houses) (25% of old stock)
A. Climate change: Mitigation & Adaptation, K. Energy performance
- 7) Air Quality up to WHO standards
E. Ambient air quality
- 8) Reading Dark Sky Status
D. Nature and biodiversity, L. Integrated Environmental Management
- 9) Shaded and underground safe, inclusive and accessible open spaces with free wifi **M,A**
A. Climate change: Mitigation & Adaptation, L. Integrated Environmental Management
- 10) Network of fire corridors (GREEN NETWORK)
A. Climate change: Mitigation & Adaptation, D. Nature and biodiversity, J. Eco-innovation and sustainable employment
- 11) Have a fully developed decrease (territorial coherence) plan, an upgradable/reversible plan in place to prevent further urban sprawl. Also, working arial depavement/permeable schemes.
L. Integrated Environmental Management
- 12) Sharing economy in full bloom
J. Eco-innovation and sustainable employment, L. Integrated Environmental Management
- 13) Cradle to cradle “second life” product cycles
J. Eco-innovation and sustainable employment, L. Integrated Environmental Management
- 14) 100% Green public institutions that have divested/invested
A. Climate change: Mitigation & Adaptation
- 15) Replace pipes with sponge districts and rain water collectors to manage rain and flooding risks
A. Climate change: Mitigation & Adaptation, H. Water management
- 16) We need to address how existing armed forces and military reserves can become a stakeholder and partnership with the civil society and local authorities
A. Climate change: Mitigation & Adaptation
- 17) Landmark green vegetation cultural buildings to tackle clean soil, water and air
D. Nature and biodiversity, E. Ambient air quality, G. Waste production and management, H. Water management, I. Waste water management
- 18) Implementation of designed layers for restoration and safeguarding of ecosystems and biodiversity - Green Rooftop plantation
D. Nature and biodiversity, L. Integrated Environmental Management
- 19) Natural resource water, urban underground/overground rivers and riverbanks for flood control (BLUE NETWORK)
A. Climate change: Mitigation & Adaptation, H. Water management
- 20) Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials
M. Sharing Economy
- 21) Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities
M. Sharing Economy
- 22) Waste collection system based on same county rules. A strategy recommends waste reduction, reuse, recycling, recovery, and residual disposal policies and programs – Landfill diversion 70% of waste. **G. Waste production and management**



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Shape Reading by 2050:

Open Garden City – Clean soil, clean water and clean air to slow global warming

1) Reading 100% Fossil Free

A Climate change: Mitigation & Adaptation, H. Water management, L. Integrated Environmental Management

2) Reading 2050 Open Garden City with Biodiverse Green Rooftop, Shadowed Biodiversity Zones, Wildlife Corridors, Incredible Edibles and the right to an allotment (outdoor green space) for every household.

D. Nature and biodiversity, L. Integrated Environmental Management

3) Reading Comprehensive air-ship docking connectors to Tram/Podcar/Monorail Network “Garden Balloon” for regional transport, heavy duty and tourism (Rdg Hyperloop?)

B. Local transport

4) Reading, Covered Walkable Urbanism protecting against acid rains

A Climate change: Mitigation & Adaptation

5) Reading 100% Energy Self-Sufficiency from RENEWABLES and a net producer to Berkshires energy grid (Net Zero emissions city) **M,A A Climate change: Mitigation & Adaptation, K. Energy performance, L. Integrated Environmental Management**

6) Reading 75% Food Self-Sufficiency, Rooftop Farming

D. Nature and biodiversity, Waste production and management

7) Reading 100% of new homes Passive House or better (energy efficient modular houses)

L. Integrated Environmental Management

8) Reading fully developed Climatic Emergency Evacuation Response Management Programme with specifically designed multi-functional usage protection zones against floods and super storms etc, with capacity for 50-100:000 people

A Climate change: Mitigation & Adaptation

9) READING CLIMATE LANDMARK green vegetation infrastructure to tackle clean soil, water, air and wildlife **D. Nature and biodiversity, E. Ambient air quality, G. Waste production and management, H. Water management, I. Waste water management, L. Integrated Environmental Management**

C. Action Framework for Implementation of the New Urban Agenda (AFINUA)

UN-Habitat, in preparation of the Action Framework for the Implementation of the New Urban Agenda (AFINUA) is doing a review of the content of the New Urban Agenda (NUA), to facilitate the conversion of the NUA into a pragmatic and efficient framework of implementation. Because of the growing links between global and local challenges, **local and regional governments now play a greater role in the regulation of the urban fabric and territories, and the protection of the commons.** However, they often lack the resources to meet these new challenges, putting pressure on their ability to fulfil pre-existing responsibilities. To contribute to what in the SDGs is termed a ‘transformed world’, local and regional governments across all world regions must be proactive and commit the following skills /actions, for this purpose, the contents of the NUA have been analyzed in fifteen categories, including the four cross cutting principles of the strategic plan of UN-Habitat, available in the UN Habitat website



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Local and regional leaders must develop new capacities and modes of leadership to respond to and take advantage of new opportunities that are opening for the achievement of **the SDGs and the New Urban Agenda**.

Local and regional leaders should use participatory democracy, shared public services, **quality provision of public space**, social and cooperative housing (**shared outdoor space or shared amenities**) and collaborative- and solidarity-based economies contribute to a new innovative and democratic governance approach, aiming at the common good. To be driving force behind the eradication of inequalities.

Strategic planning is an essential component of management. It integrates spatial planning, proper plotting of land use, economic stability, infrastructures and other dimensions that are key responsibilities of local and regional government.

Access to basic services is a human right that should be guaranteed for all. Local and regional governments should expand services and, at the same time, reduce the environmental impact of urban infrastructures. To 'square the circle', they must be given powers to experiment with innovative approaches.

Local and regional governments should have the necessary policy powers and resources to control economic development levers and take advantage of an ongoing transformation of the global economy to boost endogenous economic development.

Growing inequalities create new forms of poverty and exclusion. Local and regional governments face the daily responsibility of tackling socio-spatial exclusion and promoting social justice, integrating migrants, preventing discrimination and urban violence, and protecting social rights to ensure prosperity and well-being.

Greener cities and territories are the key to a sustainable future. Local and regional governments must move towards sustainable production and consumption patterns and act to mitigate and adapt to climate change.

Culture is a vital element of citizenship, integration and co-existence. Culture should be the fourth pillar of sustainable development. All citizens have the right to culture. Cities and territories should promote active cultural policies.

1. Principles and values
2. Urbanization and Sustainable Development
3. National Urban Policies
4. Rules and Regulations
5. Urban Planning and Design
6. Financing Urbanization
7. Urban Basic Services
8. Housing and Slum upgrading



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- 9. Risk Reduction
- 10. Research and Capacity Development
- 11. Human rights
- 12. Climate Change
- 13. Gender
- 14. Youth
- 15. Local Implementation

<http://nua.unhabitat.org/list1.htm#>

https://www.uclg.org/sites/default/files/bogota_commitment.pdf

D. 10 recommendations for Planning for the climate challenge

understanding the performance of English local plans

- 1: Re-prioritise climate change in the local plan system
- 2: Provide clarity on the legal requirements on climate change
- 3: Provide clarity in national policy
- 4: Define the scope of climate evidence in local plans
- 5: Deal clearly with risk
- 6: Reform the governance of the delivery of action on climate change
- 7: Review the scope of the English spatial planning system
- 8: Provide adequate resources to plan for climate change
- 9: Encourage spatial planning over the long term
- 10: Promote new forms of strategic co-operation

<https://www.tcpa.org.uk/planning-for-the-climate-challenge>



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E. Glocal targets Goal 13 and 11 and 2 (SDGs)

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all cities (hazard mapping)

Integrate climate change measures into local policies, strategies and planning

Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning systems - give citizens access to disaster prevention and response information in real time

Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of nationally mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible

Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities

*** Infrastructure accessibility - Within the realm of loss and damage to human systems, a distinction is made between economic losses and non-economic losses.**

***' Acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change.**

Climate Organiser – Climate Change Center Reading / #Eco4ClimRD

Contact info – eco4clim @ cccrdg .org .uk

On Twitter – @Eco4ClimRD @ClimateMovement

FINALLY: SUPPORT and PARTICIPATE in ECOPRENEURS_RD CLIMATE LABS 2018

where we invite Reading's vibrant community groups, students, businesses and residents in the spring of 2018

Climate Change Centre Reading / Ecopreneurs for the Climate in Reading

CCCRdg.org.uk (blog)

Email: cccrdg @ outlook .com, info @ cccrdg .org .uk

Twitter <https://twitter.com/CCCRdg>

Facebook <https://www.facebook.com/CCCRdg>

For further information: ECOPRENEURS_RD CLIMATE LAB's, Climate Organisers in Reading:

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