

Net Zero Carbon by 2030



Glasgow's Journey

A world class city with a thriving and inclusive economy where everyone can flourish and benefit from the city's success.

Where did we start

- Sustainable Glasgow established in 2010
- Sustainable Glasgow report published
- Target set to reduce CO₂ emissions by 30%
- 33 Actions set out
- Predicted to cost the city in excess of £1B

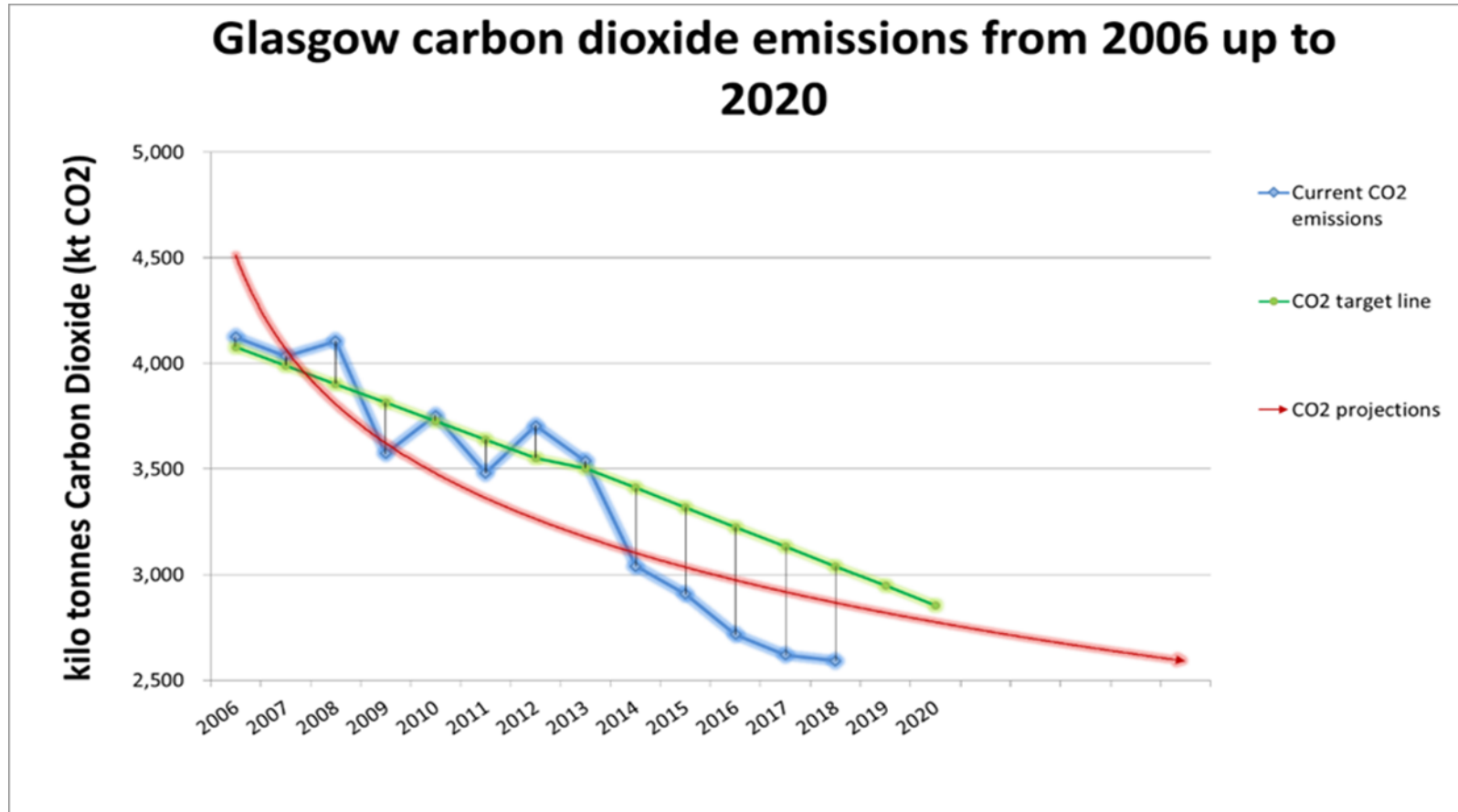


Where did we start

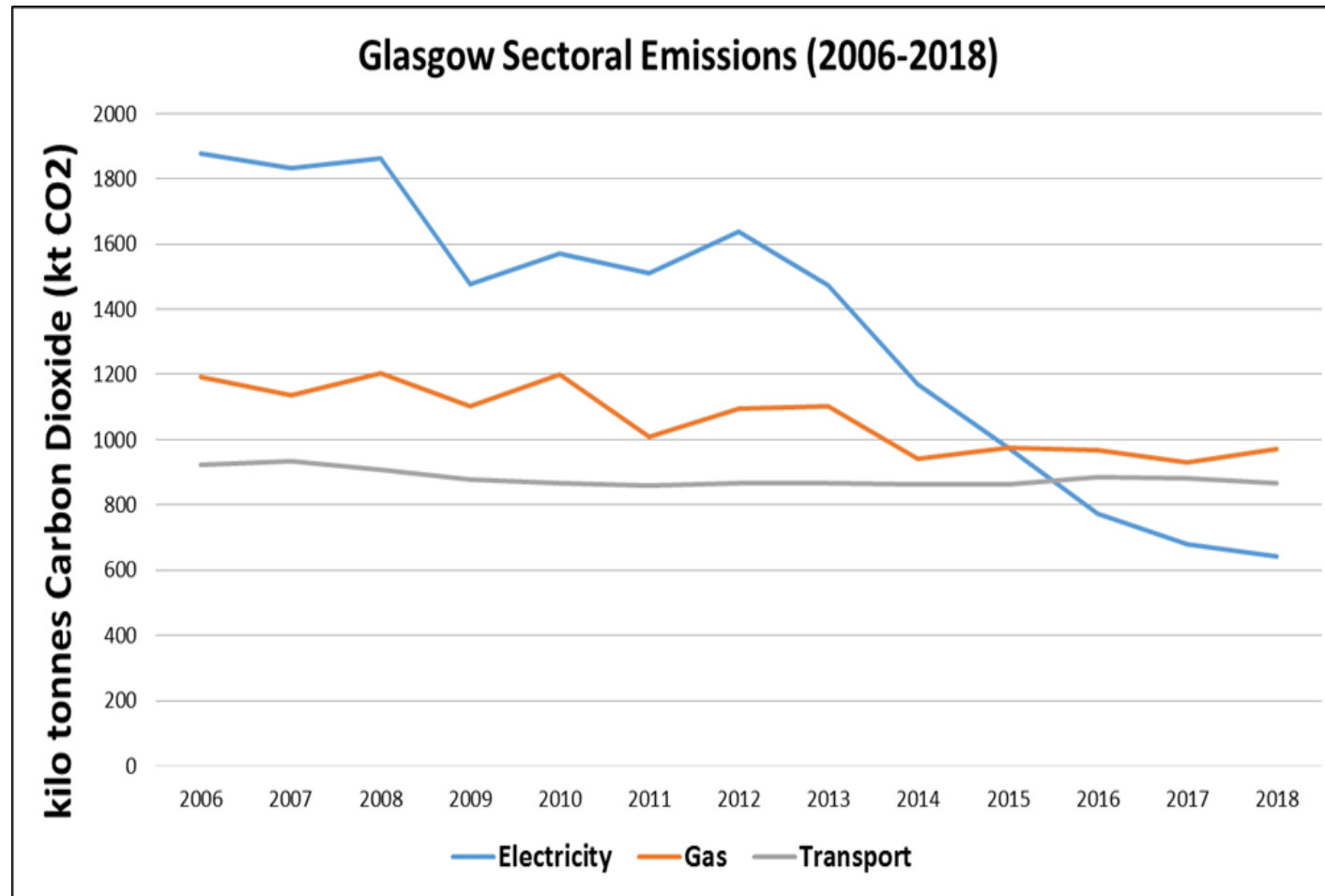
- EU FP7 STEPUP project 2012-15
- Sustainable Glasgow report updated to become Glasgow Energy & Carbon Masterplan
- Target to reduce CO₂ emissions by 30%
33 Actions retained
- More sophisticated data analysis and mapping



2020 – How did we do?



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How did we hit our target?






How did we hit our target?



Insulation Retrofit


A project undertaken with the University of Strathclyde to test insulation methods for a range of homes across Glasgow and collect data on their impact on energy consumption. Sensors have and continue to be installed in pre and post upgrade properties in Glasgow, to monitor the performance of insulation programmes in order to ensure that the insulation system is functioning as expected. This will inform future insulation programmes across the City.







Web Portal

From the web portal, residents will be able to find registered/approved service and technology providers who can install retrofit solutions for them.








Demand Side Management

A project carried out in collaboration with ScottishPower Energy Networks and Siemens, to understand the benefits that 'Demand Side Management' - (controlling the electrical demand of building by turning specific loads on and off) - will bring to both the electrical network and the Council's building estate. Building management systems will be enhanced in a range of buildings to allow them to 'talk' to the power network and reduce their electrical demand by automatically adjusting their lighting and heating (for example).

Factors such as the weather will also be taken into account when deciding whether or not to turn loads on or off. This project will focus on a limited number Glasgow City Council properties with the hope the technology can be rolled out to other buildings across the City in the years to come.

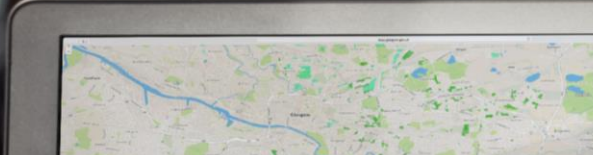




Renewables Mapping

Developed in collaboration with the University of Strathclyde, a Renewables Map has been created, which maps renewable energy opportunities within the city - specifically solar / photovoltaic electricity generation on vacant & derelict sites around Glasgow. The map developed will enable people or communities to identify sites where it is most appropriate to develop a renewables project, based on detailed analysis of the various policy and technical constraints that exist across the City.

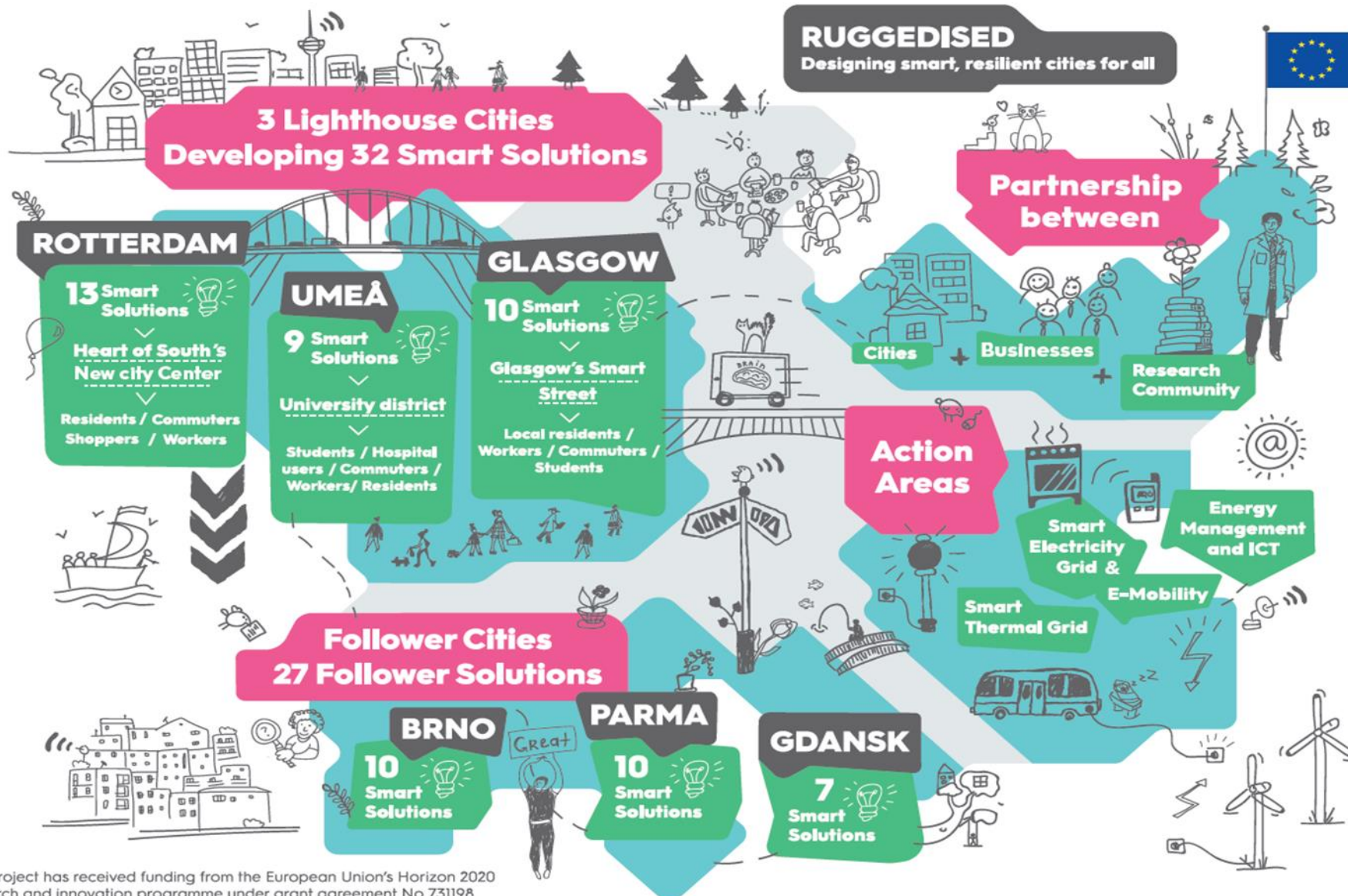
Each site will be colour-coded to indicate whether it is favourable for development of renewables, which will ensure that both communities and the Council do not waste effort developing projects that, for a range of policy and technical reasons, are not suitable for renewables deployment.

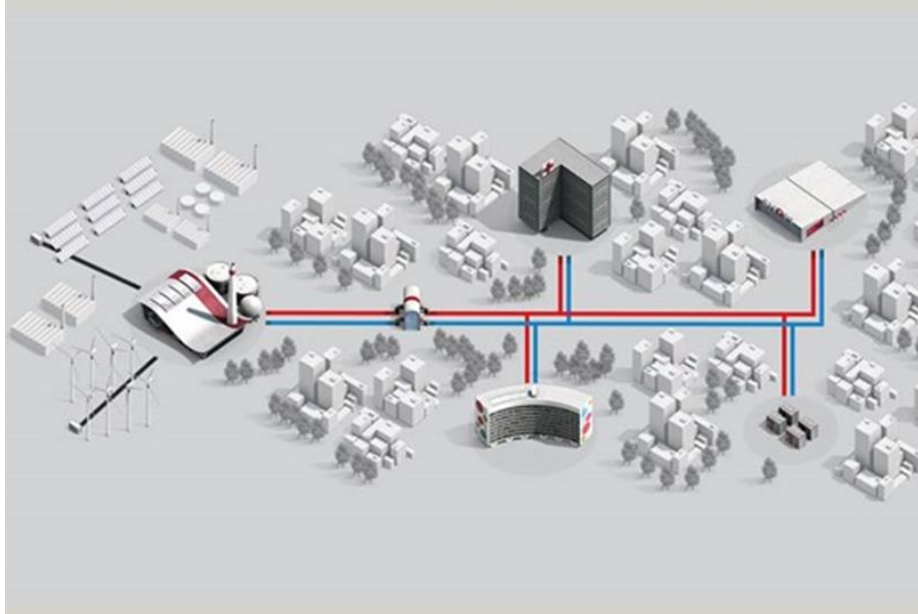
[VISIT MAPPING SITE](#)

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Glasgow City Council

Neighbourhoods, Regeneration and Sustainability

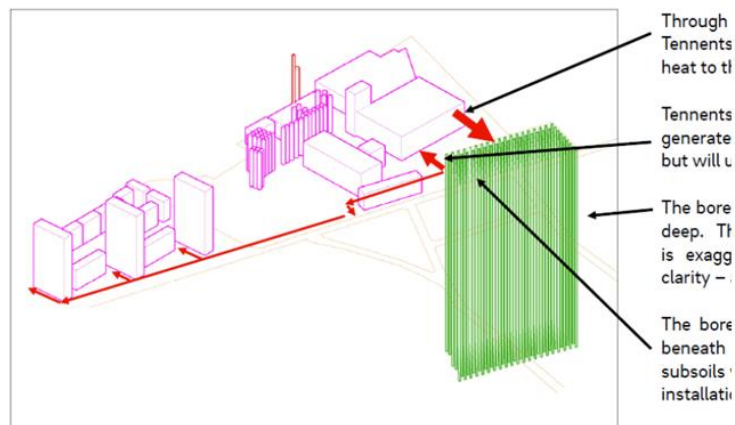




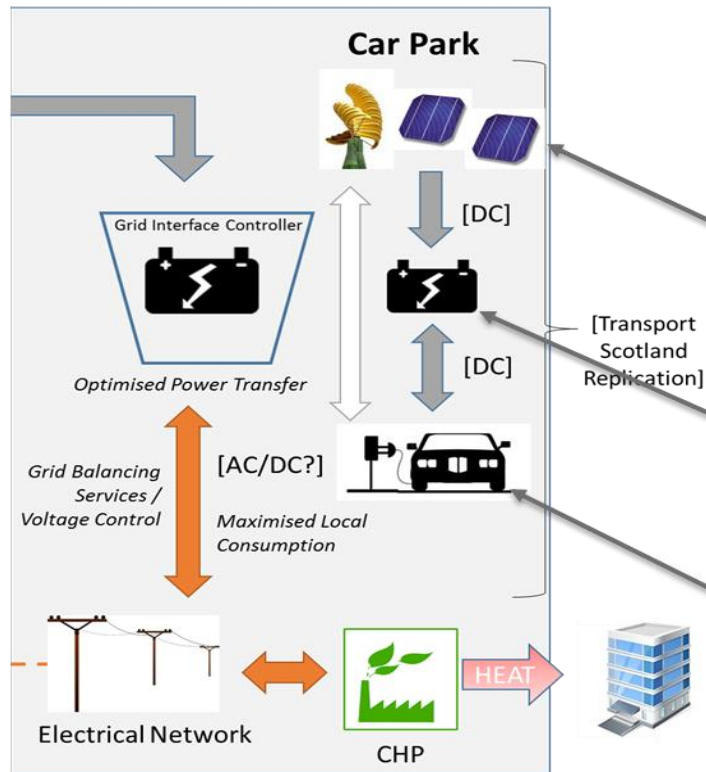
Borefield - Layout



Overview



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200kW Solar
PV Canopy



500kW Battery
Storage



OFFICIAL

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Net Zero Carbon by 2030



- GCC declared a state Climate and Ecological Emergency
- Recommended 60 actions across 5 thematic areas.
- Sustainability and social justice at the heart of its delivery.
- Recommendations translated in Glasgow's Climate Plan
- Delivery of a Net Zero action plan one of the core actions

- Sustainable Glasgow partnership reconfigured
- Four new thematic hubs created
 - Heating and Housing
 - Greening the City and Rewilding
 - Green Infrastructure and Transport
 - Green Economy & Private Sector
- Board and hubs meet monthly and progressing new action to support journey to NZC by 2030

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SUPPORTING PLANS AND POLICIES

We need to talk about
our transport future.



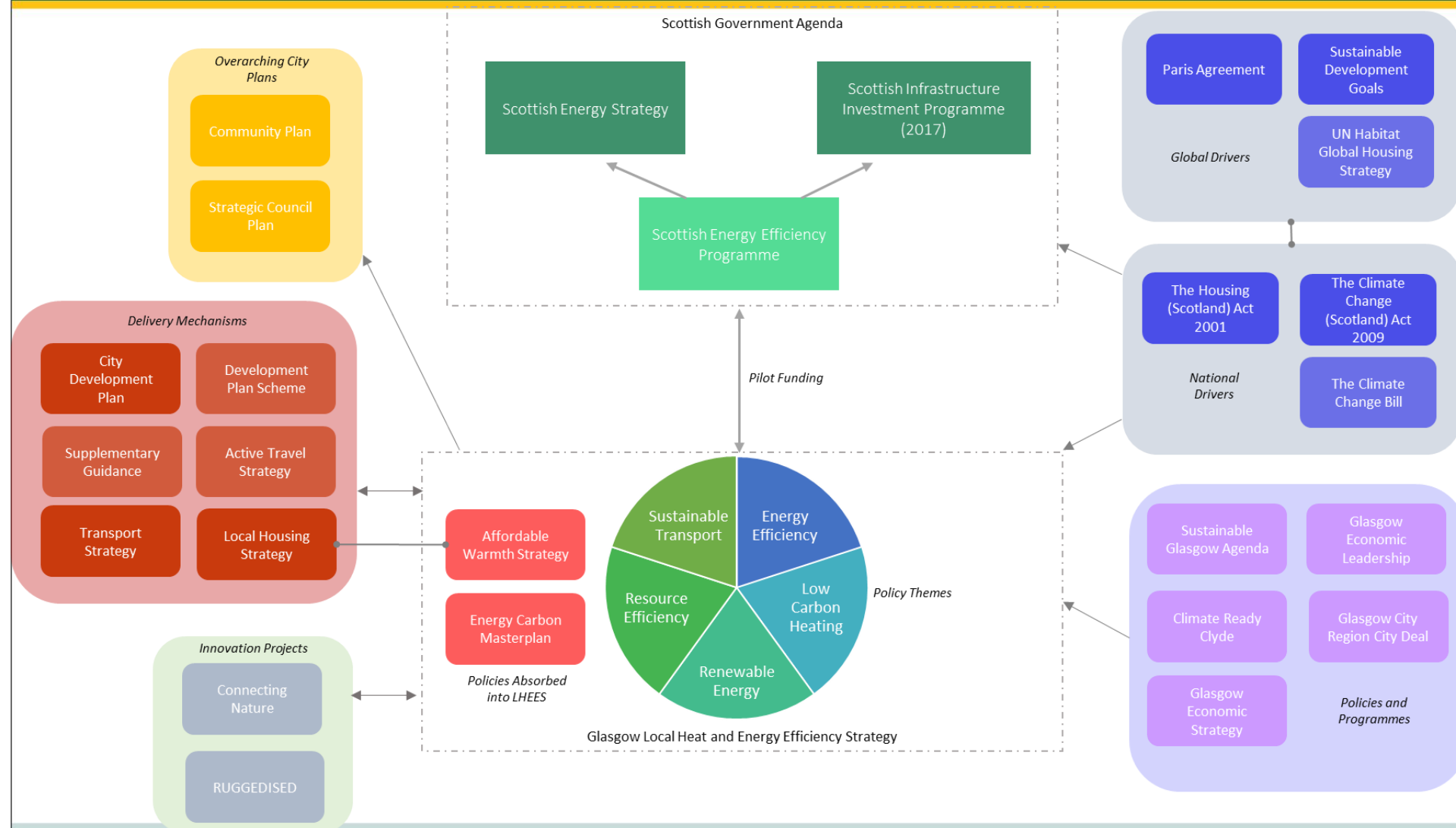
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Local Heat and Energy Efficiency Strategy



Glasgow City Council

Neighbourhoods, Regeneration and Sustainability



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Glasgow's Climate Plan

Our Response to the Climate and Ecological Emergency

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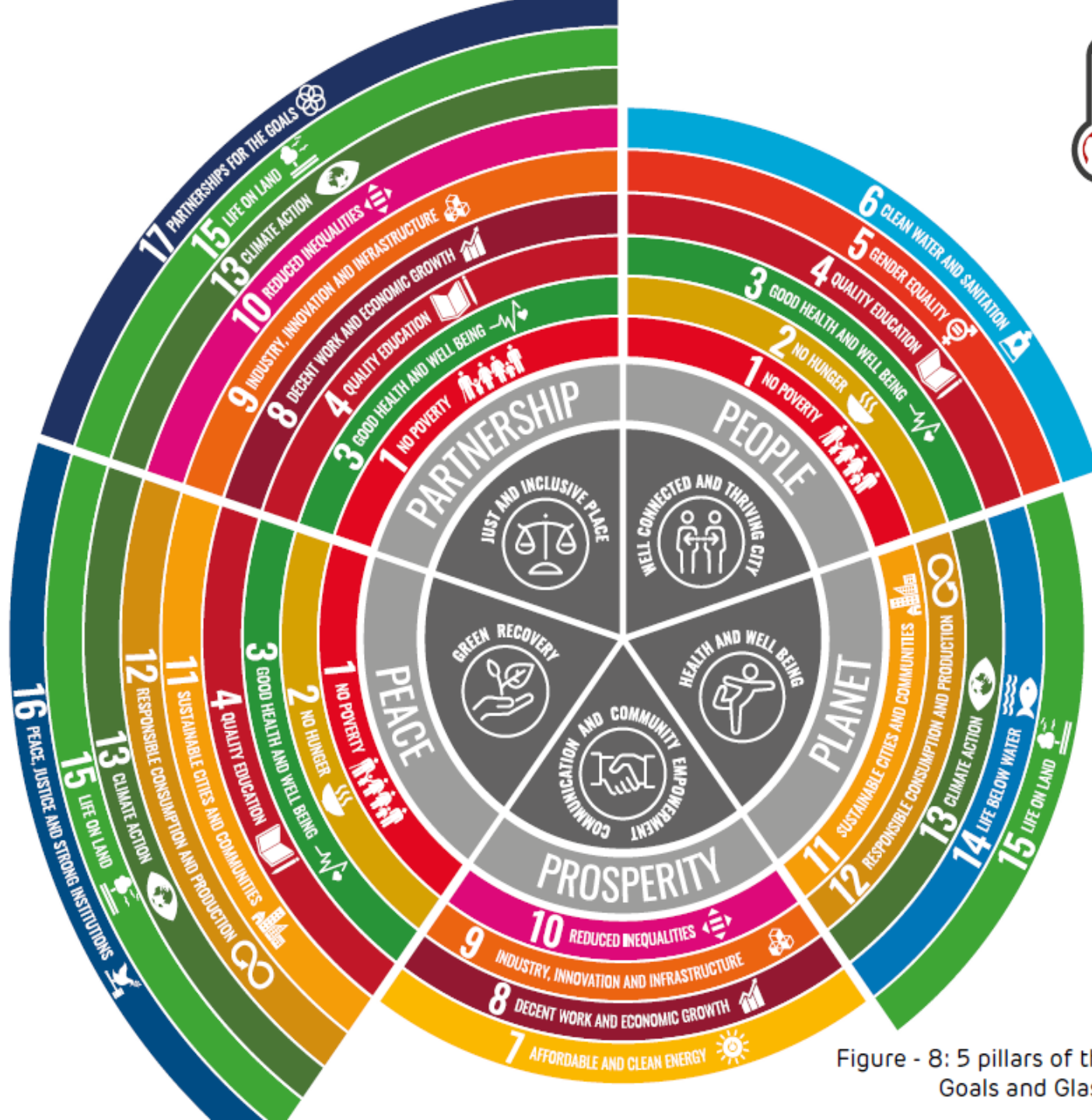


Figure - 8: 5 pillars of the Sustainable Development Goals and Glasgow's Climate Plan Themes



CLIMATE EMERGENCY

2028

Annual iterative review of the Climate Plan

The city and partners will continue to invest in programmes to enable young Glaswegians to access and succeed in new green job opportunities. Engaging with further and higher education institutions, ensuring that the curriculum and training they offer supports green opportunities



2029

Annual iterative review of the Climate Plan

To continue to work with Education Services in the city, Scottish Government and Keep Scotland Beautiful to formally engage with pupils on the climate and ecological emergency and the actions which can be taken to address them.

2030

Annual iterative review of the Climate Plan

The city makes significant progress in the transition Glasgow's economy from linear to circular, making it more inclusive and sustainable.

Increase the amount of renewable energy such as solar thermal, PV or heat pumps in the city to represent 20 % of total energy demand.

Work with bus operators to support rapid transition to cleaner public transport as part of the City's Low Emissions Zone.

Transition the fleet of private hire vehicles to zero emission vehicles by 2030.

Reduce the need to own and use a car through measures in the City Development Plan 3, Locality Plans and Glasgow Transport Strategy. Including, Low Emission Zones, Bus gates.

New City Climate Plan is adopted setting out targets and key actions for building a net zero city by 2045 and beyond.



Moving Forward to NZC 2030

- Delivery of technical Net Zero Feasibility Study
- Deliver on Climate Plan & Green New Deal for Glasgow
- Finalise and Publish LHEES
- Massive investment in retrofit
- Sustainable Glasgow & work with networks (CNCA, C40)
- Development of Climate Neutral Innovation District

FINAL DRAFT

CATAPULT



Glasgow's Integrated Net Zero Plan – Scoping Study



Sustainable Glasgow

Net Zero Carbon
by 2030



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► Sustainable Glasgow Charter



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“We are the first generation to feel the effect of climate change and the last generation who can do something about it.”

Barack Obama, Former US President

