

Appendix 4 – Project Summaries

Project	Summary
Resource Efficiency Fund 2	Extend the scope of the existing REF to reach a larger number of SMEs and widen the scope for the types of assessment provided. Pilot system-wide innovation and the circular economy.
Green City Region Web Portal	Build on the existing Business Growth Hub by expanding the energy and environmental services offered by the Hub.
Green Curricula in Apprenticeships	Incorporate good business practice around energy and water management into curricula of apprenticeships.
Advancing Industrial Energy Efficiency	Targeting of the high emission industrial sectors of the City Region with an energy efficiency innovation programme.
Industrial Waste Heat Recovery	Quick start the development of waste heat recovery infrastructure across the City Region, targeting energy from waste plants and energy intensive industries including the glass, chemicals and food and drink sectors. Also includes the equipping of retail stores with heat recovery systems connected to refrigeration units.
CCS	Deployment of new CCS installations across the City Region, supporting and building on the pilot bioenergy capture and storage project at Drax.
District Heat Networks	Continue to support the development of the six most advanced networks while developing the heat network pipeline and identifying potential funding sources to allow implementation.
H21 Implementation, Skills and Supply Chain	Continue to support the development of the H21 project led by Northern Gas Networks, retaining as far as possible the benefits of the project within the City Region.

Project	Summary
Public Estate Renewables Programme	Utilisation of the public sector estate for the installation of renewable energy generation.
Community Energy Schemes	Provide support for, and facilitate the growth of the community energy sector and community energy projects, including the investigation of a community energy fund.
Carbon Budgets and Carbon Management	Implementation of carbon budgets and carbon management plans across the City Region's partners, in line with the Government's Emissions Reduction Pledge 2020 report.
Green Bonds	Development of a green bonds business model to support the ongoing transition to renewable energy.
Improve Local Plan Housing Policies	Introduction of planning policies which go beyond Building Regulations. (Identified due to the Deregulation Act 2015 not being enacted and the new National Planning Policy Framework stating ' <i>local authorities are not restricted in their ability to require energy efficiency standards above Building Regulations</i> '.)
Promote Sustainable Design and Construction	Consideration of alternative methods of house building, including Passivhaus and off-site modular construction.
Scaling Up Better Homes Yorkshire	Widespread rollout of retrofit fabric insulation and heating measures combined with new generation for households where it is suitable.
Whole System Domestic Energy Efficiency Retrofit Demonstrator	Takes a whole village or neighbourhood approach to the deployment of 'whole-system' energy efficiency measures to achieve a high level of efficiency.
Public Sector Retrofitting	Retrofit of the public sector estate with energy efficiency measures such as energy management systems, LED lighting, motion sensors.

Project	Summary
Full Fibre Infrastructure	Support the City Region Local Full Fibre Bid as a catalyst for the implementation of a smart energy system.
Street Lighting Programmes	Accelerate LED replacement, smart lighting controls and networked solutions across local authority areas.
Solar Carports	Installation of solar PV canopies above car parking spaces, proving space efficient renewable generation.
Whole Energy System Approach Pilot	Identification of new early stage new developments in the City Region where a whole energy systems pilot could be undertaken.
Energy Storage for Council Housing Mounted Solar PV	Identification of housing blocks and estates with high density solar PV installations, and install battery storage to maximise the solar PV utility.
Smart Leeds	Innovative kick starter project aimed at delivering a large number of energy system pilot and demonstrator projects in the City Region.
Hydrogen Vehicles	Deployment of hydrogen buses on one City Region bus route, and build two hydrogen refuelling stations. Will enable the incorporation of hydrogen powered cars into corporate fleets where the fuelling stations are located.
EV Charging and Infrastructure	Deploy dedicated taxi and public EV charging points across the City Region, focusing on rapid charging technology and high demand locations.
Hyperhubs	Pilot project to demonstrate proof of concept in the City Region.
Smart Park and Ride	Targeting of two new P&Rs to include solar PV canopies, energy storage, electric buses, charging infrastructure, a grid / private wire export link.

Project	Summary
Smart Travel Evolution Programme (STEP)	Consider the extension of STEP across the City Region, monitoring and analysing real time journey information to make interventions where vehicles and traffic signals work together to improve the network.
Behaviour Change Schemes	Promotion of cycling and walking through behaviour change schemes across the City Region.