

PHYSICAL INFRASTRUCTURE - Environmental and Services Infrastructure

<u>Site Name/Location</u>	<u>Required Infrastructure</u>	<u>Infrastructure Priority</u>	<u>Reason for Infrastructure Delivery</u>	<u>Funding and Delivery Partners</u>	<u>Cost of Infrastructure</u>	<u>Timescale</u>
Utilities						
City wide	Extension of low carbon district energy network.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Working in partnership with Coventry District Energy Company, and utilising developer contributions.	Presently unknown.	Across Development Plan Period (2016-2031).
North / North East corner of the City covering proposed developments at Grange Farm; Sutton Stop, Whitmore Park and Elms Farm.	Local District Energy Centres - Dedicated 'Combined Heat and Power' energy centre to serve both new and existing residential properties as well as new/planned and existing businesses.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Through various funding sources including; ERDF, HNDU (part of DfECC) and private investors.	Part of a wider £50m package of measures.	To be confirmed - currently at outline planning stage.
South and South East of the city covering development schemes at Allard Way; Walsgrave Hill Farm and Whitley	Local District Energy Centres - Dedicated 'Combined Heat and Power' energy centre to serve both new and existing residential properties as well as new/planned and existing businesses.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Through various funding sources including; ERDF, HNDU (part of DfECC) and private investors.	Part of a wider £50m package of measures.	To be confirmed - currently at outline planning stage.

South West corner of the city covering development schemes at Cromwell Lane; Canley, and Mitchell Avenue	Local District Energy Centres - Dedicated 'Combined Heat and Power' energy centre to serve both new and existing residential properties as well as new/planned and existing businesses.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Through various funding sources including; ERDF, HNDU (part of DfECC) and private investors.	Part of a wider £50m package of measures.	To be confirmed - currently at outline planning stage.
Keresley SUE with Browns Lane sites	Local District Energy Centres - Dedicated 'Combined Heat and Power' energy centre to serve both new and existing residential properties as well as new/planned and existing businesses.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Through various funding sources including; ERDF, HNDU (part of DfECC) and private investors.	Part of a wider £50m package of measures.	To be confirmed - currently at outline planning stage.
Easter Green SUE	Local District Energy Centres - Dedicated 'Combined Heat and Power' energy centre to serve both new and existing residential properties as well as new/planned and existing businesses.	3	To support new district energy networks across the city, support sustainable energy generation and reduce CO2 emissions.	Through various funding sources including; ERDF, HNDU (part of DfECC) and private investors.	Part of a wider £50m package of measures.	To be confirmed - currently at outline planning stage.
Whitley	Refurbish and expand the energy from Waste Plant at Whitley.	2	Refurbishment and expansion of existing incinerator to support the city's continued waste management programme.	Partnership between CCC and SMBC.	Presently unknown.	By 2020.
Coventry City Centre	Extension of Coventry Heatline District Energy Network.	3	Expansion of the existing Heatline network in Coventry in order to connect the wider City Centre to the system, support sustainable energy generation and reduce CO2 emissions.	Charging through CIL, in addition to funding from various sources which include; HNDU (part of DfECC), CDES, CU, NHS, CCC, private developers and existing businesses.	Between £3-4million for pipe network.	To be confirmed - currently at outline planning stage.

Walsgrave Hill Farm	Small-scale hydro-electricity generation.	3	Dedicated CHPEC's to serve existing and new residential properties, new, planned and existing businesses, hospital, retail premises and schools. Will also support sustainable energy generation and reduce CO2 emissions.	Charging through CIL, in addition to funding from various sources which include; HNDU (part of DfECC), CCC, NG (feed in tariff) and private investors.	Approximately £0.5m.	Linked to phased delivery of site.
Allard Way (formerly Whitley Pumping Station)	Small-scale hydro-electricity generation.	3	Dedicated CHPEC's to serve existing and new residential properties, new, planned and existing businesses, hospital, retail premises and schools. Will also support sustainable energy generation and reduce CO2 emissions.	Charging through CIL, in addition to funding from various sources which include; HNDU (part of DfECC), CCC, NG (feed in tariff) and private investors.	Approximately £0.5m.	Linked to phased delivery of site.
Whitley Business Park	Upgrade to power supply network from Hearsall Common to Whitley Business Park.	4	To provide power supply upgrade to Whitley Business Park and support jobs creation and economic growth.	Funding is already secured through partnership with Weston Power and private investment.	Not disclosed.	By 2021.
City wide	Electricity/Gas/Telecommunications.	4	To support city wide power supplies. Ensuring electricity, gas and telecommunication supply to new developments.	Working in partnership with utility and telecommunication companies, and utilising developer contributions and CIL charging.	Presently unknown.	Across Development Plan Period (2016-2031).

City wide	Improved broadband and telephone lines supplies to new developments.	4	Deliver continued upgrading of city wide high speed and ultra-fast broadband and 4g wireless technology.	Through developer contributions/CIL, broadband providers and in partnership with sub-regional broadband projects.	Presently unknown.	Across Development Plan Period (2016-2031).
Coventry City Centre	Free 4G Wi-Fi across the City Centre.	4	Provision of 4G Wi-Fi across the City Centre for public use that comes at no cost to the user.	Through private sector investment in partnership with CCC, LGD and RGF.	Presently unknown.	Across Development Plan Period (2016-2031).
Water and Flood Mitigation						
City wide	General Water Supply.	4	Work with STW to ensure water supply to new developments is identified within their investment programme. This will ensure adequate provision is made for new developments.	Charging through the CIL, in addition to developer contributions and funding from EA and STW.	Presently unknown.	Across Development Plan Period (2016-2031).
City wide	Waste Water & Sewage Facilities.	4	Work with STW to ensure waste water and sewage can be adequately dealt with and is identified within their investment programme. This will ensure new developments are adequately managed and supported.	Charging through the CIL, in addition to developer contributions and funding from EA and STW.	Presently unknown.	Across Development Plan Period (2016-2031).

City wide	Flood Prevention programme.	1	Prevent/mitigate potential issues in the future, and resolve existing issues. To ensure all homes, business and public spaces are free from flood risk.	Charging through the CIL, in addition to developer contributions and funding from EA and STW.	To resolve existing issues will cost approximately between £4million and £5million.	Across Development Plan Period (2016-2031).
Gypsy and Traveller site at Siskin Drive	Management and where appropriate, upgrading of flood alleviation bund.	1	To prevent flood risk to the site and support on-going maintenance of flood barrier.	Initial funding has already been secured and the bund created. Funding for on-going maintenance is to be reflected within appropriate budgets. Partnership approach with HCA and EA.	Presently unknown.	Across Development Plan Period (2016-2031).
Stoke Aldermore	Upgrade to water supply provision and pipe network.	4	Improvement to overall water distribution, aided by The removal of Pressure Reducing Valve.	Funding sourced from both EA and STW.	Presently unknown.	Medium Term (3-5 years).
Environmental Management						
City wide	Provision and implementation of new air quality monitoring stations.	2	To widen city wide monitoring of air quality, especially around areas of new development such as the SUE's. Will ensure future air quality monitoring is undertaken in the most appropriate locations allowing long term assessment new development impacts.	Through developer contributions/CIL and grant/CCC investment programme.	multi-pollutant site including purpose-built enclosure - £50-80k per station	To be delivered throughout the Plan period (2016-2031).

City wide	Fuel poverty reduction measures including property insulation programme targeted at the 2,500 worst performing homes.	3	To help improve energy efficiency of homes, reduce energy usage for heating and bring the city in-line with the national average.	Through developer contributions/CIL and grant/CCC investment programme.	£9-14k per property.	To be delivered between 2017 and 2030.
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