

Eco Impact Checklist

Title of report: Electricity Contract Procurement and Renewals
Report author: David Gray
Anticipated date of key decision: 31 st March 2022

Summary of proposals: To set up a new sleeving arrangement for BCC half-hourly sites (1/3rd total demand) to enable BCC-generated zero-carbon electricity to be routed to the largest BCC sites. To put a flexible grid supply in place for the remaining sites (non-half-hourly and streetlighting), pending later expansion of sleeving arrangements.

Will the proposal impact on...	Yes / No	+ive or -ive	If Yes...	
			Briefly describe impact	Briefly describe Mitigation measures
Emission of Climate Changing Gases?	Yes	+ive	<p>Net emissions from sleeving the half-hourly metered supplies will be reduced by around 2,700 tonnes CO_{2e} per year. These will be mostly renewable, with less than 30% top-up from the grid when demand exceeds generation.</p> <p>Street lighting and non-half hourly metered supplies will be on a similar arrangement to the current one.</p>	<p>Renewable electricity supplies will be expanded through the PPA with the Ambition Lawrence Weston wind turbine. Work will be done with City Leap to expand energy storage options. Both these will reduce the need to top-up from the grid.</p> <p>Street lighting and non-half hourly metered supplies will be migrated to expanded sleeving arrangements from Autumn 2023, although a separate project will also be underway to halve the electricity demand from street lighting.</p>
Bristol's resilience to the effects of climate change?	Yes	+ve	Procuring locally generated electricity has the potential to improve Bristol's energy security and resilience to climate change.	
Consumption of non-renewable resources?	Yes	+ive	These proposals make direct use of the council's own renewable generation. There will continue	The interim arrangements are intended to last for 18 months, after which the non-half hourly and street lighting supplies

			to be some demand for fossil fuel generation for the first 18 months.	will also be migrated to sleeved supplies.
Production, recycling or disposal of waste	No			
The appearance of the city?	No			
Pollution to land, water, or air?	No			
Wildlife and habitats?	No			

Consulted with:

Summary of impacts and Mitigation - to go into the main Cabinet/ Council Report

The significant environmental impacts of this proposal will be to reduce emissions and improving energy security by directly using the electricity the council generates from wind and solar. However, it also delays plans to source additional renewable supplies by 18 months.

The proposal will mitigate the impacts by fully expanding the sleeving solution 18 months after the start of the contract.

The net environmental effects of the proposals are significant beneficial.

Checklist completed by:

Name:	David Gray
Dept.:	Energy Service
Extension:	07584 771121
Date:	9 th April 2022
Verified by Environmental Performance Team	Giles Liddell, Project Manager - Environmental