

SECTION 5 - PROCUREMENT

5b - How has procurement activity contributed to compliance with climate change duties?

The following represent illustrative samples of procurement activity i) delivering a reduction in CO2 ii) improving energy efficiency and iii) incorporating meaningful sustainability criteria:

1. Construction – follows industry terms/best practice (NEC3, SBCC ICE etc), Building Standards/Building Performance polices. Specifications incorporate sustainability, energy, and environmental considerations to a challenging but proportionate extent per project. Strong ethos that value for money demonstrated by whole of life costing/best price-quality ratio. Current and future climate risks factored into procurement processes where relevant to safeguarding assets/infrastructure and communities. In the reporting period, procurer and supplier knowledge/awareness of circular economy principles and opportunities increased.

2. Maidencraig Flood Management Wetland Scheme – Illustrative of approach to adaptation. Initial contract awarded Apr 18 - Phase 2 tendered in January 2020. Project creates a path between housing development and the Den Burn providing a safe route to schools, a new habitat for nature and reduces flood risk to homes and properties downstream. Scheme involves constructing earth bunds, relocating a small burn to create a space for nature, installation of lighting and replacing temporary bridge i.e. considerable habitat enhancement in addition to essential flood prevention work.

3. Sensor Network– Illustrative of the Council’s proactive approach to adaptation. At full business case stage in the reporting period. The business case will assess the merits of strategically deploying sensors that could serve to support early intervention in the context of flood prevention.

4. Managed Print Contract (Managed Print Contract (Aberdeen City/Aberdeenshire) – “Print Smart” power saving models embedded. Contract systematically eliminates use of small, inefficient desktop printers requiring regular replacement of peripherals. 3994 devices replaced by power saving models in 17/18. Print policies reduce volumes, eliminate waste, reduce resources & energy consumed and strongly promote scanning, duplex, mono, and reduced archiving.

New models default to preferred eco options where possible. Sustainability Calculator reports a 30% reduction in: **Energy**: (annualised BTUs), **Greenhouse Gas Emissions** (Annualised Pounds GHG) and **Solid Waste** (annualised Pounds SW.) In terms of user behaviour, evidence supports reduced print volumes of nearly 10% year on year, with an estimated 175M less sheets of paper used since 2015. Contract embraces hybrid mail (less road miles for deliveries/less paper) and ensures used print cartridges are responsibly recycled. Hybrid mail to be strategically deployed with benefits captured from 2021.

5. Energy from Waste (Aberdeen City, Aberdeenshire, and Moray Councils) The award of a contract for the construction of an Energy from Waste plant working towards fulfilling Zero Waste Plan requirements has been made with the facility targeted to be operational by 2022. This aims to provide a long-term solution for non-recyclable waste produced in the NE of Scotland. Facility will provide a viable solution for residual waste that will generate significant, wider benefits e.g. electricity generation and heat for local residents as a sustainable means of reducing fuel poverty. Forecasts indicate plant will process circa 150,000 tonnes of non-recyclable waste pa. Modern combustion technology utilises flexible, future-proof, cutting-edge process control. High temperature combustion provides electricity and heat from the production of steam. Project has the potential to heat 10,000 homes otherwise reliant on fossil fuels. Forecasts show around 10MW of electricity, and/or 20MW of heat as steam or hot water will be produced.

6. Aberdeen Hydrogen Bus Project – Fleet travelled 120181.1 km carrying 104326 passengers. 15 new hydrogen double decker buses purchased by operator in the reporting period under the JIVE Project. Buses only emit water vapour so reducing carbon emissions/air pollution. For 2019/20, emissions saving was 115 tCO₂.

7. Fuel Cell/Hydrogen/Electric Vehicles – in the reporting period, 13 h₂ vehicles ordered: 1 HyTrEc2 retrofitted road sweeper, 1 "Switched on Fleet" (SOF) retrofitted road sweeper; 4 SOF (leased) Hyundai Nexos; 6 Fuel Cell Cargo Pedelecs, 1 Hector fuel cell waste truck. In addition, 10 Toyota Mirais passed to community partners (1x Aberdeenshire, 1x CFine, 2x Sport Aberdeen 3x NEScol, 3x Cowheels) Electric Vehicles/Charge Points: 4 x BMW i3 electric vehicles leased under Co-wheels car club fleet for use by staff, 2 x Nissan eNV200 combi electric vehicles purchased as part of CIVITAS PORTIS EU funded project - used by the Harbour Board A further 5 x rapid triple charger (capable of recharging 2 cars at once) and 4 x double fast charger (capable of recharging 2 cars at once) have been purchased and will be installed in 2020/21. Electric Vehicle Strategy, for Aberdeen City in development and tariff for use of EV chargepoints to be introduced on 1st June 2020.

8. Aberdeen City Hydrogen Energy Storage (ACHES) in the reporting period, delivered 1872.98 kg H₂. TTW (tailpipe emission) savings were 81,064 kg.CO₂e.

Well to Wheel (WTW) savings, depending on method of production for the hydrogen are as follows: green tariff production of H₂ = 100,174 WTW kg CO₂e emissions saved. Steam Methane Reforming (SMR) production of H₂ = 61,992 WTW kg.CO₂e emissions saved. Using grid electricity = 30,343 WTW kg.CO₂e emissions saved.

National Frameworks

Through participation in User Intelligence Groups (UIGs), the Council works in close collaboration with Scotland Excel (SXL) to improve sustainability credentials in the development of new national frameworks. A comprehensive sustainability test is carried out by SXL for each new framework. Amongst other considerations, the bidder's policies on managing waste, minimising carbon footprint, fair work practices, innovation and commitments to delivering meaningful community benefits are routinely explored and subject to robust contract/supplier management.

The Council makes extensive use of national frameworks (particularly SXL.) The SXL Contracts Register lists each operative SXL framework. In most cases the SXL Contracts Register contains a summary of sustainability considerations. These considerations represent a minimum standard which can (where options allow) be enhanced through purchasing decisions made in "call offs" from the framework. For example, lease and purchase of fleet vehicles and plant predominantly through SXL frameworks. In any framework involving delivery of supplies, new generations of frameworks encourage increasingly superior emissions class of vehicles from framework commencement or willingness to work towards a particular framework during the life of the framework. Food related frameworks increasingly incorporate reduced packaging/waste and circular economy principles.

Scottish Government Frameworks and Contracts cover a wide range of goods and services and can be used by central government and the wider public sector) In some cases the list of frameworks and contracts contain a summary of sustainability considerations. These considerations represent a minimum standard which can (where options allow) be enhanced through purchasing decisions made in "call offs" from the framework.

Utilities · Electricity - Promoting greener power: option of Renewable Energy Guarantee of Origin (REGO) certificates at a fixed rate; range of Energy Efficiency Services available as additional services and opportunities to sell energy back to the grid. · Natural Gas – sustainable measures and energy performance guarantee option to ensure a range of energy conservation measures. · Water – Climate Change Emergency measures including intelligent water management programme for reducing water usage with associated reduction in CO₂ emissions