

Corporate Policy and Strategy Committee

10.00am, Tuesday, 5 December 2017

Sustainable Energy Action Plan

Item number	7.2
Report number	
Executive/routine	
Wards	All
Council Commitments	18

Executive Summary

The Sustainable Energy Action Plan (SEAP) is the city wide programme to reduce carbon emissions by 42% by 2020. The second SEAP annual report was submitted to Committee in March 2017. This presented data on the carbon emissions reduced to date and information on the action programme and key initiatives. The Committee noted the progress on the SEAP but asked for a report back on the progress of actions labelled as “red” and “amber”.

Sustainable Energy Action Plan

1. Recommendations

- 1.1 The Committee is asked to note the contents of the report.

2. Background

- 2.1 The Sustainable Energy Action Plan (SEAP) was approved in February 2015 setting out the five-year strategic programme aiming to reduce carbon emissions across the city by 42% by 2020.
- 2.2 The second SEAP annual report was submitted to Committee in March 2017. This presented data on the carbon emissions reduced to date and information on the action programme and key initiatives. The Committee noted the progress on the SEAP but asked for a report back on those actions labelled as “red” and “amber” in the project programme.
- 2.3 This report provides an update on those actions.

3. Main report

- 3.1 The SEAP programme consists of a total of 115 actions covering the five key action areas of:
- energy efficiency;
 - district heating;
 - renewables;
 - resource efficiency; and
 - sustainable transport.
- 3.2 Of these actions, 11 relate to wider policy measures requiring implementation by either the UK or Scottish Government and therefore out with the control of the Council. However, they are included in the overall programme as they have an impact on city wide carbon emissions.
- 3.3 All projects in the SEAP programme have been given a “traffic light” status with the following criteria:
- “green”: these are projects that are completed, or well underway and/or on track in terms of timescales and therefore pose no concerns;

- “amber”: these are projects that might have longer timescale or started but behind schedule, or there may be some unresolved issues such that there are some concerns; and
 - “red”: these are projects that have stalled, unlikely to happen or have major concerns.
- 3.4 The report submitted to Committee in March this year showed that the majority of SEAP projects had green status where there were few concerns. A small number of projects had either red or amber status.
- 3.5 Appendix 1 details those projects identified in the March report as red or amber and provides a brief update for each action. In many cases, these projects have now progressed and the status has been improved accordingly. There is now only one project in the red category which for technical reasons is unlikely to progress. However, some projects have moved from green to amber and will be monitored.
- 3.6 The SEAP is a five-year plan up to 2020. Consequently, the timescales for some actions can be variable and so may remain as amber for a period of time. An example of this is the larger infrastructure projects which can take several years to develop and deliver.
- 3.7 All projects are reviewed regularly via a Project Monitoring Matrix. As work progresses on developing and implementing actions or project specific business plans, the matrix is updated to reflect progress and timescales.
- 3.8 The next annual report on progress is due to be submitted to Committee in April 2018 which will provide a more detailed update.

4. Measures of success

- 4.1 The key measure of success for the SEAP is a reduction in carbon emissions across the city which will meet Council targets and pledges. Other measures however will include a reduction in the number of households in fuel poverty, the amount of renewable energy generated across the city and the number of local energy projects initiated.

5. Financial impact

- 5.1 There are no adverse financial impacts for the Council associated with the activities outlined in this report.

6. Risk, policy, compliance and governance impact

- 6.1 By implementing a SEAP, the Council is mitigating any risks of non-compliance with the Climate Change (Scotland) Act 2009. In addition, a number of the SEAP projects will assist the mandatory carbon emissions reporting under the Public Bodies Duties introduced by Scottish Government.

7. Equalities impact

- 7.1 There are no adverse equalities impact associated with this report.
- 7.2 By delivering affordable energy and reducing fuel poverty, the SEAP will contribute positively to key equalities outcomes of reducing inequality, poverty and deprivation

8. Sustainability impact

- 8.1 The SEAP will have a positive impact on sustainability through actions specifically designed to lower carbon emissions through energy efficiency, encouraging sustainable travel, resource efficiency and encouraging low and zero carbon energy generation. This will increase the city's resilience to climate change impacts.
- 8.2 The projects within the SEAP will benefit a sustainable Edinburgh by helping alleviate fuel poverty in communities and by improving both quality of life and the environment. It will assist in making local businesses more resilient, provide business opportunities for local suppliers, and provide local people with more disposable income, providing a boost to the local economy and a knock on effect in terms of employment opportunities.

9. Consultation and engagement

- 9.1 There is continual engagement on the SEAP with a wide range of organisations. The SEAP is a standing item on the Member/Officer Working Group and the Edinburgh Sustainable Development Partnership. Updates are provided quarterly.

10. Background reading / external references

None.

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11. Appendices

Appendix 1: SEAP Projects List of Red and Amber Actions

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APPENDIX 1 LIST OF RED AND AMBER ACTIONS

No of Action	Summary of Action	CO ₂ (kt) Saving	Comment	Previous Status	New Status
Energy Efficiency					
2	Large scale energy retrofit programme for non domestic buildings (phase 2) 15 properties.	7.0	The first phase of the energy retrofit programme is nearing completion. While progress of any Phase 2 will be influenced by the first phase, this action is now being picked up and will be developed further.		
17	Future phases retrofit of small to medium sized commercial buildings (e.g. shops, restaurants, offices, hotels) with energy efficiency measures.	84.5	The more strategic energy retrofit programmes are part of a wider number of both UK Government policies and Scottish Government energy initiatives. In particular, the development of the Scottish Government's Energy Efficiency Programme (SEEP) is addressing the replicability and scale of retrofit programmes. Edinburgh has a number of projects underway under the current SEEP programmes.		
18	Future phases of public and community buildings with energy efficiency measures such as better insulation and heating systems that will reduce heat and electricity demand.	95.0			
19	Scotland Energy Efficiency Programme (SEEP) Duncan Place energy retrofit	1.8		Funding has been secured for the retrofit of Duncan Place.	
21	Energy Switch 2020 (Dunedin Canmore)	tbc	The Projects have stalled somewhat. Awaiting further information.		
23	Water Efficiency Project (Dunedin Canmore)	tbc			
24	Chop Cloc Trail Project (Dunedin Canmore)	tbc			
25	Install smart meters for gas and electricity in every home to encourage better domestic energy management.	5.0	Programme is now progressing. Research and cases studies being made available to local authorities. This action will be moved to the Government Policy section.		
26	Council to replace all stair lighting with LEDs	2.4	All stair lighting in Council blocks now replaced.		
District Heating					
42	The Council will lead the development of an Edinburgh District Heating Strategy that provides the framework for establishing a city wide network.	50.0	Funding has been secured to begin the development of a Heat and Energy Efficiency Strategy.		
43	Produce guidance for developers on district heating and sustainable building design.	tbc	Work carried out by the Scottish Cities Alliance has produced some guidance on heat networks as part of wider energy assessments. This is being reviewed as to its application in Edinburgh.		

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44	Publish a heat map for Edinburgh that will identify the major heat loads across the city.	tbc	Ongoing but resource needed		
45	The Council will carry out an evaluation of its own estate and assess the opportunities for connections to existing buildings.	tbc	Some further work to be developed as part of this action. More strategic approach being developed.		
46	The Council will work with EDI to deliver the district heating scheme at Fountainbridge.	3.2	Business case developed. There are still some issues around delivery and funding that need to be addressed. A funding gap still exists.		
47	Take forward the potential district heating scheme at the BioQuarter.	5.8	Business case developed. There is however a funding gap to take the project forward. Other options being evaluated.		
Renewables					
59	The Council will publish a new policy on renewables and instigate a study into their application in Edinburgh including the potential for new jobs and skills	tbc	A new software tool has been procured which allows assessments of potential renewables opportunities in solar PV. This will assist any study into their application.		
Resource Efficiency					
61	Pilot a resource efficient business district, to test out a number of resource efficiency measures in collaboration with other businesses.	tbc	Concept developed. Further development in 2017.		
66	The Council will work in partnership with Scottish Water / SHARC energy to evaluate a scheme piloting waste heat from sewage pipes for Council buildings	0.6	Council now part of a project with the Building Research Establishment. This will be a 9 month project looking at the potential for waste heat across the city.		
68	Trial a pilot using biofuel in the Council fleet to other partners with large scale fleet e.g. Lothian Buses.	4.5	This has stalled due to technical difficulties and unlikely to be taken forward.		
Sustainable Transport					
76	Progression of feasibility study to fund a trial of ultra-low emission vehicles (ULEV) taxis funded by OLEV 2017-2020	14.8	Applications still being explored directly with OLEV.		
79	Introduce electric plug in hybrid (Euro 6) into the Lothian Buses fleet.	tbc	Progressing with now fully electric buses in the fleet.		
87	Cycling Scotland's Cycle Friendly University Campus project (HW and UoE universities)	tbc	Now progressing.		
88	eCycle project - electrically assisted bicycles (University partnership)	tbc	Now progressing.		
Carbon Management Plans of Edinburgh's largest employers					
	Carbon Management Plans	tbc tbc	Work continues on the development of carbon management plans by organisations across the city.		