

Background

This document contains the SEAP Data for the Oxford City Council SEAP submission to the CoM 2016

Overview

- 1. Action List** contains the long list of actions that were identified for potential inclusion in the SEAP
- 2. SEAP Template** contains the SEAP Template for submission to CoM
- 3. Nat. Pol. Contributions** contains the national policies that feed into the SEAP
- 4. Pink tabs** contain calculations

Action ID	Action Name	Action Description	Action Type	Owner	Potential Co-benefits	Oxford Corporate Responsibilities	SEAP Sector	How was the action identified?	What SEAP theme would this action come under?
1	LES Priority N1	Continued annual reduction of GHG emissions (3%/annum) in Low Carbon Oxford pathfinders	Reduced GHG emissions through improved resource efficiency	Low Carbon Oxford Partnership	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Buildings	Oxford LES	Oxford LES
2	LES Priority N2	Improve the energy efficiency of OCC leased estate	Increased energy efficiency	Oxford City Council	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Efficient effective Council	Buildings	Oxford LES	Oxford LES
3	LES Priority N3	Planning for low carbon development	Low carbon infrastructure (buildings and transport) integrated into planning from the start	Oxford City Council	More livable city, improved ambient air quality, improved human health	Cleaner greener Oxford	Other (multi-sector)	Oxford LES	Oxford LES
4	LES Priority N4	Showing leadership with continued reduction of the Council's own carbon footprint (OCC Carbon Management Plan)	Increased energy efficiency	Oxford City Council	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Efficient effective Council	Buildings	Oxford LES	Oxford LES
5	LES Priority R1	Improve the average energy efficiency of private sector housing	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Buildings	Oxford LES	Oxford LES
6	LES Priority R2	Develop a programme of community renewable energy schemes	Local renewable energy production	Oxford City Council	Improved energy independence, lower cost of energy	Cleaner greener Oxford	Renewables	Oxford LES	Oxford LES
7	LES Priority R3	Ensure all Houses of Multiple Occupation (HMOs) have an energy performance certificate and the average rating is improved	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Oxford LES	Oxford LES
8	LES Priority T1	City wide sustainable travel plan	Improving efficiency of transport system	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Oxford LES	Oxford LES
9	LES Priority T2	Emission reduction measures for the freight sector	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Oxford LES	Oxford LES
10	LES Priority T3	Promote zero emission vehicles in the light duty fleet	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Oxford LES	Oxford LES
11	20% renewable energy for all new construction	Demand 20% renewable energy production for any new construction	Increased generation of renewable energy	Oxford City Council	Improved energy independence, reduced energy bills	Cleaner greener Oxford	Renewables	Suggestion from Oxford SEAP Workshop	

Lead Officer	Phase	Project Start Date	Project End Date	Policy Instrument	Origin of Action	How will this be monitored?	Certainty of Implementation	Notes	Next steps	MB comment	Include in SEAP template?	In SEAP
Mairi Brookes	Implementation						High	Current: assume 50% of city emissions reducing at 3% p.a. May overlap with other actions led by external orgs	Need to disaggregate LCO pathfinder data from major sources (i.e. universities, BMW etc.)	Agree. NHS heat project should probably also be split out too. Let me know if you have what you need for that. We have a new contact at the NHS Trust so can follow up with him if needed.	Yes	Yes
Mairi Brookes	Implementation						High	Discussed with Debbie. Not happening apart from the OCC Social Housing Energy Efficiency Measures	May be no progress here. Follow up with PR		No	No
	Implementation						High	Will be difficult to accurately quantify - use LES estimate	Use LES data	Agree	Yes	Yes
Paul Robinson	Implementation						High	5% year on year. Excess is carried into next year. 5 year phase - 16/17 is the last year of the current phase and we expect to meet the target for all of this phase. Includes SALIX/SALIX+ measures.	Likely significant - advise stakeholder follow-up	Yes - Paul Robinson (252541). He is on leave w/c 28th and 4th. Suggest making contact before that to kick start.	Yes	Yes
???	Implementation						High	Discussed with Debbie. Not happening apart from the OCC Private Housing Energy Efficiency Measures			No	No
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???	Implementation						High	Anonymized data on city based projects and pipeline included. Correct as of Nov 2015	Likely significant - advise stakeholder follow-up	Yes. I can provide updated OxFutures pipeline for city (will be small, but is flagship so should include). Also relates to item 30 Project ERIC (also small)/development of smart generation/DSM - could put these together.	Yes	Yes
???	Implementation						High	Discussed with Debbie. Not happening apart from the OCC Social Housing Energy Efficiency Measures	Need to understand status of this.	Pick up with Debbie Haynes but unless she knows otherwise, don't think this adds a lot as not well specified and I assume enforcement would be an issue.	?	Yes
???	Implementation						High		Need to understand status of this.	Don't include - too early days and likely minor impact.	No	Yes
Elizabeth Bohun	Implementation						High	Will not happen.	Need to understand status of this.	Follow up with Lizzie Bohun - biggest impact likely to be from implementing a distribution centre outside the ring road with zero emissions last mile. Not sure how well worked up but maybe worth an estimate. Followed up with Lizzie,	No	No
???	Implementation						High	Captured by Go Ultra Low	Need to understand status of this.	Go Ultra Low on-street charging and other project from bid?	?	Yes
	Idea						?	Extension of existing rule for new buildings > 2,000m2. Likely not to manifest in time for this revision of the SEAP	N/A	Agree. Unlikely and covered by planning action from a narrative point of view	No	

Action ID	Action Name	Action Description	Action Type	Owner	Potential Co-benefits	Oxford Corporate Responsibilities	SEAP Sector	How was the action identified?	What SEAP theme would this action come under?
12	AQAP	Air Quality Action Plan (incl. Low Emission Zone)	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Initial draft action list (provided by OCC 29/1/2016)	AQAP
13	Community ESCOs	Promote community ESCOs	Increased generation of local renewable energy	Oxford City Council	Improved energy independence, reduced energy bills	Vibrant sustainable economy	Renewables	Suggestion from Oxford SEAP Workshop	
14	Domestic retrofit in Barton	Domestic retrofit in Barton	Increased energy efficiency	OxFutures	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Initial draft action list (provided by OCC 29/1/2016)	OxFutures
15	ESIF Partnership	Fuel poverty pilot in East Oxford and business energy efficiency audits and implementation support	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Initial draft action list (provided by OCC 29/1/2016)	ESIF Partnership
16	Fuel Poverty Programme	Energy efficiency installations funded by ECO	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Initial draft action list (provided by OCC 29/1/2016)	Fuel Poverty Programme
17	Go Ultra Low Oxford	Go Ultra Low Oxford	Provision of onstreet charging for EVs	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Initial draft action list (provided by OCC 29/1/2016)	Go Ultra Low Oxford
18	HNDU funded city-wide heat network scoping	HNDU Funded City-wide heat network scoping	District heating system	Oxford City Council	Improved energy independence, lower cost of energy	Vibrant sustainable economy	District heating/cooling production	Initial draft action list (provided by OCC 29/1/2016)	

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Ian Halliday & Mai Jarvis	Implementation						High	Supporting sustainable transport, Low emission vehicles, Freight Transport, planning to manage emissions, own fleet emissions (double counting?), partnerships and education. This will naturally capture flagship projects such as those funded by OLEV, cycle strategy, LEZ work etc.	Likely significant - advise stakeholder follow-up	Follow up with Lizzie - will bring in Ian if needed. Need to know roughly how you would like to do that? It might be that a scoping meeting with both them would enable them to establish how much each needs to be involve and also deal with the high level analysis of these actions and others in this spreadsheet that might overlap.	?	Yes
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree.	No	
Mairi Brookes	Implementation						High		Need more detail from OCC to see if this is significant.	Probably small but lots of learning so I'd like to include. I'll send through the data.	?	No
Mairi Brookes	Plan						Medium	Bid in prep for £3.2m county wide. Would include a fuel poverty pilot in East Oxford and business energy efficiency audits and implementation support.	Need to await outcome of bid.	Agree - timescale is next couple of months if they don't slip. I will keep you posted.	No	
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Debbie Haynes	Implementation						High	Captured in the OxFutures spread sheet	Likely significant - advise stakeholder follow-up	Yes. Debbie. This definitely overlaps with Social housing retrofits - may go beyond what is included in OxFutures (which is just the ECO work). Debbie also runs an energy advisor service - might be worth asking her if there are assumptions about benefits from that - think they will visit all properties over some period.	Yes	Included, but not quantified
Elizabeth Bohun	Plan	Trial roll out from early 2017, full roll out starting 2018	Mar-21				High	Trial of 30 installations of different technologies for assessment in different situations. Then informing roll out of 100 further installations around the city. Could make assumptions about number of electric cars enabled?	Likely significant - advise stakeholder follow-up	Follow up with Lizzie - will overlap with AQAP.	?	Yes
Paul Robinson	Plan						?	Feasibility needs to be understood. Need to understand if this is possible/realistic and might progress.	Need more detail from OCC to see if this is significant.	Follow up with Paul Robinson to see what is available and then take a view on further work. Would be good to include as an enabler if nothing else. Perhaps an estimate would be of a similar scale to the NHS heat project?	?	No

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19	OH Hospitals NHS Trust heat network	Headington District Heating	District heating system	NHS Oxford	Improved energy independence, lower cost of energy	Vibrant sustainable economy	District heating/cooling production	Initial draft action list (provided by OCC 29/1/2016)	
20	Oxford Bus PV Array	Installed PV panels	Local renewable energy generation	Oxford Bus Company	Reduced energy bills	Cleaner greener Oxford	Renewables	Initial draft action list (provided by OCC 29/1/2016)	LCO Pathfinders
21	Oxford City Council - Fleet energy reductions	Fleet energy reductions	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Initial draft action list (provided by OCC 29/1/2016)	Oxford City Council - Fleet energy reduction
22	Oxford Mini Plant PV Array	3MW solar panel pv array	Local renewable energy generation	Oxford Mini Plant	Reduced energy bills	Cleaner greener Oxford	Renewables	Initial draft action list (provided by OCC 29/1/2016)	LCO Pathfinders
23	Oxfordshire County Council - Fleet energy reductions	Fleet energy reductions	Reduced GHG emissions through more efficient transport	Oxfordshire County Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Initial draft action list (provided by OCC 29/1/2016)	Oxfordshire County Council - Fleet energy reductions
24	Oxfordshire County Council Emission Reduction Strategies	Own building energy retrofits	Increased energy efficiency	Oxfordshire County Council	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Buildings	Suggestion from Oxford SEAP Workshop	Oxfordshire County Council Emission Reduction Strategies
25	Private rented sector energy efficiency	Enable/require private renting sector to at least achieve EPC "E" rating	Private rented sector energy efficiency regulations	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Suggestion from Oxford SEAP Workshop	
26	Promote increased uptake of biomass	Work to develop biomass energy industry in Oxford	Increased generation of renewable energy	Oxford City Council	Improved energy independence, reduced energy bills	Cleaner greener Oxford	Renewables	Suggestion from Oxford SEAP Workshop	
27	Public sector non-domestic retrofits	Retrofits of schools, civic buildings, hospitals etc.	Increased energy efficiency	Oxford City Council	Reduced energy bills, improved building comfort, improved ambient air quality	Efficient effective Council	Buildings	Suggestion from Oxford SEAP Workshop	Public sector action
28	Rail electrification	Rail electrification	Reduced GHG emissions through more efficient transport	Network Rail and National Government	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	

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???	Plan						High	C.f. overlap with LCO. Info from Mark Trumper email: <ul style="list-style-type: none"> • A reduction in annual energy costs of around £2.2 million, resulting in a net guaranteed annual saving over £400,000. • A reduction in the annual carbon footprint of the Trust from 30,000 tonnes to 19,000 tonnes http://www.ouh.nhs.uk/about/energy/default.aspx	Likely significant - advise stakeholder follow-up	Yes - confirming contact with attendee to our annual event this week. Will confirm asap.	Yes	Yes
Luke Marion	Closed						High	Have data from 14-15 emissions reporting exercise. Can probably engage for an update.	Need to understand when this was completed (post 2012?)	Yes - end of 2013. Data is in OxFutures spreadsheet - do you need more?	?	No
Elizabeth Bohun	Implementation						High	Likely marginal savings but can include if data is readily available	Review Carbon Management Plan	Check with Paul re Carbon Management Plan and Lizzie in context of LES. Agree only include if data readily available	?	Yes
	Closed						High	Plant likely to expand, so emissions might actually increase instead	Need to understand when this was completed (post 2012?)	Yes - 2014 I think. http://www.evoenergy.co.uk/case-studies/bmw-mini/ Let us know if you need more info.	?	No
135 ???	Implementation						High	Likely marginal savings but can include if data is readily available	Review Carbon Management Plan	TBC Checking with Inga	?	Yes
Inga Doherty	Implementation						High	Currently planning for their own estate - get city data? Took part in 14-15 emissions reporting exercise	Potentially significant, worth following up?	TBC Checking with Inga	?	Yes
	Idea						?	Need to understand if this is possible/realistic and might progress	Need more detail from OCC to see if this is significant.	Follow up with Debbie as per Leuivalent LES action.	?	No
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	agree	No	
???	Idea						Low	Need to ensure no double counting with CMP	OCC to consider combining CMP with other public sector initiatives?	Think much of this is covered by the unis, NHS Trust, us and county. So extra work won't add much at this stage. Think this is very useful going beyond 2020 - to ensure commitments to LCO stay relevant.	No	
	Plan						Medium	Scheduled to be complete by 2019. Would need to add rail emissions to BEI/MEI.	Likely significant - advise stakeholder follow-up	Agree	?	Yes

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29	Revolving Green Fund	Revolving Green Fund to allow utility company or other investors to buy existing generation assets. Create revolving CAPEX fund for further projects	Financial mechanism	Oxford City Council	Improved energy independence, lower cost of energy	Vibrant sustainable economy	Renewables	Suggestion from Oxford SEAP Workshop	
30	Smart Grid	Scaling up smart grid (Scale up of project ERIC)	Smart grid	Oxford City Council	Reduced need grid infrastructure updates	Vibrant sustainable economy	Renewables	Suggestion from Oxford SEAP Workshop	
31	Solar assisted air conditioning	Solar assisted air conditioning	Increased generation of renewable energy	Oxford City Council	Improved energy independence, lower cost of energy	Cleaner greener Oxford	Renewables	Suggestion from Oxford SEAP Workshop	
32	University of Oxford Emission reduction strategy	Building retrofits	Increased energy efficiency	University of Oxford Emission reduction strategy	Reduced energy bills, improved mental and physical health from improved indoor temperature	Cleaner greener Oxford	Other (multi-sector)	Suggestion from Oxford SEAP Workshop	University of Oxford Emission reduction strategy
33	Workplace parking levy	Workplace parking levy for vehicles in Oxford City Centre	Reduced GHG emissions through reduced traffic	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
34	Charging points for greener taxis	Installation of rapid charging points dedicated to taxis to encourage greener taxis	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
35	Chiltern Railways	Improved rail access through Chiltern Railways	Reduced GHG emissions through more public transport	Network Rail and National Government	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
36	City Centre Zero Emission Zone	City Centre Zero Emission Zone	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
37	Combined Energy Performance Certification	Evolving MRLA to be "flexible" and enable energy certificate for 5 BOGS at once	Increased energy efficiency	Oxford City Council	Reduced energy bills, improved mental and physical health from improved indoor temperature	Cleaner greener Oxford	Buildings	Suggestion from Oxford SEAP Workshop	
38	Council tax rebate for energy efficient retrofits	Energy efficiency incentives	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Suggestion from Oxford SEAP Workshop	
39	Develop a Local Transport Plan Four (LTP4)	Develop a sustainable, low emission transport plan for the city	More overarching approach to transport planning	Oxford City Council	???	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	

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	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Still a pilot, unlikely to be scaled up in time for this revision of the SEAP	N/A	Agree	No	
	Idea						Low	Considered unlikely to be a high priority - leave for now?	N/A	Agree	No	
Tom Heel	Implementation						High	Targetted reductions are about 0.6% of the city's emissions. using a 2005/6 baseline of 65,980 tCO2, the University has set an ambitious target to reduce its carbon emissions by 11% by 2015/16, and 33% by 2020/1	Likely significant - advise stakeholder follow-up	Agree. Can you set out what your ask will be (high level) so I can get Harriet to choose the right team member?	Yes	Yes
	Idea						?			Can see this being included in future but not well developed now.	No	
Elizabeth Bohun	Plan						?			Follow up with Lizzie as above - we will be bidding for funds and apparently the hackney cab fleet is terrible. It's mostly an air quality thing, but she may have sufficient numbers to estimate benefits	?	No
	Idea						Medium	Savings in terms of avoided car journeys would need to be estimated	Likely significant - advise stakeholder follow-up	Is this doable? Are the benefits easily attributable to the city (e.g. if it's avoiding car journeys to the park and ride then city area emissions won't be that high. Think it's interesting but I don't have a feel for what we'll get.	?	Yes
	Idea						?			Won't happen by 2020 and no one knows what it means anyway	No	
								Suggestion from Oxford SEAP Workshop		?????! What on earth does that mean? Google suggests: Malayan Races Liberation Army?	No	
	Idea						?	Need to understand if this is possible/realistic and might progress	Need more detail from OCC to see if this is significant.	Not realistic on timescale	No	
	Plan						?	This is currently being developed by Oxfordshire County Council	Will be hard to quantify savings. Likely measures are captured elsewhere.	Agree	No	

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40	Develop travel plans for companies in city centre	Travel planning for the private sector	Reduced GHG emissions through more public and active transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
41	Domestic extension planning requirements	Only allow domestic extensions if overall house energy demand is reduced by 15-20%	Increased energy efficiency	Oxford City Council	Reduced energy bills, reduced fuel poverty	Meeting housing needs	Renewables	Suggestion from Oxford SEAP Workshop	
42	Green Leases (Minimum Eenergy Efficiency Standards)	Enable/require Green Leases to be set	Private rented sector energy efficiency regulations	Oxford City Council	Reduced energy bills, reduced fuel poverty, improved human health, improved building comfort, improved ambient air quality	Meeting housing needs	Buildings	Suggestion from Oxford SEAP Workshop	
43	Greening of fleet of major employers	Procurement of efficient vehicles in the private sector	Reduced GHG emissions through more efficient transport	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
44	Freight consolidation	Freight consolidation	Reduced GHG emissions through reduced traffic	Oxford City Council	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
45	Improved bike parking at Thornhill P&R	High density cycle parking	Reduced GHG emissions through increased active transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
46	Increased access for Headington	Improvements to walking, cycling and bus infrastructure in Headington	Reduced GHG emissions through more active transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
47	Increased bus and cycle priority	Bus and cycle lanes	Reduced GHG emissions through more public and active transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
48	Large scale bike sharing scheme	Install bike sharing scheme in the city	Reduced GHG emissions through increased active transport	Oxford City Council	Health benefits of active transport, health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	
49	Low Carbon Oxford Partnership	5% rather than 3% yearly reduction by commercial and NGO actors	Reduced GHG emissions through improved resource efficiency	Low Carbon Oxford Partnership	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Buildings	Suggestion from Oxford SEAP Workshop	Low Carbon Oxford Partnership
50	Low Carbon Oxford Partnership	Car pools, tree planting, house renovations, thermal imaging etc.	Reduced car use, carbon sequestration, increased energy efficiency, house refurbishments etc.	Community Action Groups	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Other (multi-sector)	Suggestion from Oxford SEAP Workshop	Low Carbon Oxford Partnership
51	Micro AD in city	Install micro Anaerobic Digestion Plat in the City	Increased production of biogas	Oxford City Council	Improved energy independence, reduced energy bills	Vibrant sustainable economy	Renewables	Suggestion from Oxford SEAP Workshop	
52	More rapid upgrading of bus fleet	Increasing efficiency of bus engines beyond Euro requirements	Reduced GHG emissions through more efficient transport	Oxford Bus Company and Stagecoach	Health benefits of improved Outdoor AQ	Cleaner greener Oxford	Transport	Suggestion from Oxford SEAP Workshop	

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	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Extension of current scheme which covers buildings > 2,000m2. Need to understand if this is possible/realistic and might progress.	Need more detail from OCC to see if this is significant.	Not sure this is possible. Don't include	?	No
	Idea							Overlap with LES priority R1	Use LES priority R1	agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
Elizabeth Bohun	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Maybe - but pick up with Lizzie	No	
139	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
Mairi Brookes	Idea							Suggestion from Oxford SEAP Workshop	OCC to decide if this should be progressed	Not realistic on timescale - next major refresh for LCO will be looking beyond 2020.	?	No
Mairi Brookes	Implementation						High	Renewable projects are covered in OxFutures - there isn't a lot of pipeline	Probably not significant savings.	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Possibly - there is a bid for electric buses and timescale might be within 2020. Me to follow up.	No	

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53	One Public Estate	Shared use of public sector estates	More efficient use of buildings	Oxford City Council	Reduced need for construction of new buildings	Efficient effective Council	Buildings	Suggestion from Oxford SEAP Workshop	
54	Oxford Brookes	Building retrofits	Increased energy efficiency	Oxford Brookes University	Reduced energy bills, improved human health, improved building comfort, improved ambient air quality	Cleaner greener Oxford	Other (multi-sector)	Suggestion from Oxford SEAP Workshop	Low Carbon Oxford Partnership
55	Oxford County Council - LED Lights	Gradual phase-in of LED lights for public lighting	Increased energy efficiency	Oxford County Council	Financial savings from longer bulb-life	Efficient effective Council	Public lighting	Suggestion from Oxford SEAP Workshop	Oxford County Council - LED Lights
56	Oxford ESCo	Develop a local energy market	Increased generation of local renewable energy	Oxford City Council and Energy Companies	Improved energy independence, reduced energy bills	Vibrant sustainable economy	Renewables	Suggestion from Oxford SEAP Workshop	
57	Energy from Waste Incineration	Energy from Waste cineration rather than landfilling MSW	Reduced landfill emissions (methane) through waste incineration	Oxford City Council and Viridor	Energy from Waste generation, Energy security, local job opportunities	Efficient effective Council	Waste	Suggestion from Oxford SEAP Workshop	Other actions: Waste

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	Idea						?	Need to understand if this is possible/realistic and might progress	Need more detail from OCC to see if this is significant.	Too complex given devolution announcement	?	No
Gavin Hodgson	Implementation						High	50% reduction on 2005 by 2020 of scope 1 and 2 emissions	Likely significant - advise stakeholder follow-up	Agree.	Yes	Yes
Inga Dohery	Plan						Medium	Need city-scale data	Likely significant - advise stakeholder follow-up	TBC - checking with Inga	Yes	Yes
	Idea						?	Likely not to manifest in time for this revision of the SEAP	N/A	Agree	No	
Andrew Pau	Implementation	TBC	2014				High	95% of MSW diverted from landfill	Monitor waste flows and increase food waste collection and recycling?	TBC	Yes	Yes

Action	Key Actions	Responsible body	Implementation		Estimated implementation cost (euros)	Estimates in 2020			Action(s) Reference	Notes	
			Start time	End time		Energy savings [MWh/a]	Renewable energy production [MWh/a]	CO2e reduction [t/a]			
	MUNICIPAL BUILDINGS, EQUIPMENT / FACILITIES				0	5,053	-	1,799			
2, 4	Oxford City Council - Own Estate Reductions	Oxford City Council	2012	2020		5,053		1,799	http://mycouncil.oxford.gov.uk/documents/s10939/		
	TERTIARY BUILDINGS, EQUIPMENT / FACILITIES				0	208,495	-	72,193			
1	Low Carbon Oxford Pathfinders - Commercial	Oxford City Council	2012	2020		7,456		2,655	Excludes OCC, NHS and Oxford Bus		
3	LES Priority N3 - Planning for low carbon developm	Oxford City Council	2012	2020		53,786		17,000			
32	University of Oxford	University of Oxford	2012	2020		76,645		27,293			
54	Oxford Brookes University	Oxford Brookes University	2012	2020		8,785		3,128			
19	NHS - Lighting retrofit	NHS Trust	2012	2020		859		408			
N3	Building Regs 2010	National Policy	2010	2020		16,216		5,774			
N7	Building Regs 2013	National Policy	2013	2020		654		233			
N29	Products policy	National Policy	2009	2020		25,194		8,971			
N40	Smart Metering	National Policy	2012	2020		5,675		2,021			
N19	ESOS	National Policy	2016	2020		1,745		621			
N24	ND RHI	National Policy	2012	2020		4,670		1,663			
N13	CRC	National Policy	2012	2020		3,563		1,269			
N33	PRS Regulations	National Policy	2016	2020		3,247		1,156			
	RESIDENTIAL BUILDINGS				0	84,400	-	24,090			
5	OCC Private Housing Energy Efficiency Measures	Oxford City Council	2012	2020		162		63			
7	OCC Social Housing Energy Efficiency Measures	Oxford City Council	2012	2020		720		206			
N6	Building Regs 2010	National Policy	2012	2020		19,569		5,582			
N10	Building Regs 2013	National Policy	2014	2020		308		88			
N32	Products policy	National Policy	2012	2020		33,794		9,639			
N41	Smart Metering	National Policy	2012	2020		13,176		3,758			
N16	Domestic RHI	National Policy	2012	2020		8,378		2,390			
N17	ECO/Green Deal	National Policy	2014	2020		8,278		2,361			
50	Low Carbon Oxford North Housing Refurbishment	Community Group	2012	2020		16		5			
	PUBLIC LIGHTING				0	68	-	32			
55	Oxford County Council - LED Lights	Oxfordshire County Council	2015	2020		68		32			
	INDUSTRY				0	8,420	-	2,998			
1	Low Carbon Oxford Pathfinders - Industrial	Private Sector	2012	2020		3,217		1,146	Excludes BMW (PV savings)		
N4	Building Regs 2010	National Policy	2012	2020		1,370		488			
N8	Building Regs 2013	National Policy	2014	2020		10		4			
N30	Products policy	National Policy	2009	2020		714		254			
N20	ESOS	National Policy	2016	2020		419		149			
N25	ND RHI	National Policy	2012	2020		2,491		887			
N14	CRC	National Policy	2012	2020		81		29			
N34	PRS Regulations	National Policy	2016	2020		118		42			
	TRANSPORT				0	88,560	-	21,759			
35	Chiltern Railway Cowley Branch	Chiltern Railways	2018	2020		2,760		675			
12	Low emissions Zone	Oxford City Council	2014	2020		10,808		2,719			
17	Go Ultra Low	Oxford City Council	2016	2020		151		37			
28	Train Electrification	National Rail	2019	2020		2,283		574			
21	Oxford City Council - Fleet energy reduction	Oxford City Council	2012	2020		2,505		613			

N38	Road biofuels (RTFO 8%)	National Policy	2017	2020		25,799	6,313
N39	Road vehicle efficiencies	National Policy	2012	2020		44,248	10,827
50	Low Carbon Oxford North Electric Vehicle Summert Community Group		2012	2020		5	1
LOCAL ELECTRICITY PRODUCTION						0	-
6	Community renewable energy schemes	Oxford City Council	2015	2020		796	378
6	Project ERIC	Project ERIC	2015	2020		175	83
20	Oxford Bus Company PV Installation	Oxford Bus Company	2013	2014		120	64
22	BMW PV Installation	BMW	2012	2013		2,560	1,374
LOCAL HEAT/COLD PRODUCTION						0	36,433
19	NHS Energy Link	NHS Trust	2017	2020		36,433	10,392
OTHER						0	-
57	Waste Incineration and Recycling	Viridor and Oxford City Coun	2014	2020		-	11,583
50	Low Carbon Oxford Group Tree Planting West Oxfo Community Group		2012	2020			1
TOTAL						-	431,429

<http://www.ouh.nhs.uk/about/energy/default.aspx>

<https://viridor.co.uk/our-operations/energy/energy->

	Absolute Saving (TCO2e)	Percentage Saving
BEI	1,022,585	
MEI	891,481	
Saving 2005 - 2012	131,104	12.8%
BAU Savings 2012 - 2020	- 8,231	-0.8%
Projected Savings from Actions 2012-2020	146,749	14.4%
Total Projected Savings 2005-2020	269,622	26.4%
Target Saving (LES)	306,775	30.0%

Policy ID	Policy group name2	Sector	Stage	Description	Included EI	Start Date	End Date	Saving in		
								Saving in 2020 (ktCO2e)	2012 (ktCO2e)	Net Savings 2013 - 2020 (ktCO2e)
N1	Afforestation policies	Agriculture	Implemented	2009 LCTP or later policies total	N/A	2013	2030	-	-	-
N2	Agriculture action plan	Agriculture	Implemented	2009 LCTP or later policies total	N/A	2014	2030	-	-	-
N3	Building Regs 2010	Commercial Services	Implemented	2009 LCTP or later policies total	No	2012	2030	6.65	0.88	5.77
N4	Building Regs 2010	Industry	Implemented	2009 LCTP or later policies total	No	2012	2030	0.57	0.09	0.49
N5	Building Regs 2010	Public Services	Implemented	2009 LCTP or later policies total	Yes	2012	2030	-	-	-
N6	Building Regs 2010	Residential	Implemented	2009 LCTP or later policies total	No	2012	2030	6.50	0.92	5.58
N7	Building Regs 2013	Commercial Services	Implemented	2009 LCTP or later policies total	No	2014	2030	0.23	-	0.23
N8	Building Regs 2013	Industry	Implemented	2009 LCTP or later policies total	No	2014	2030	0.00	-	0.004
N9	Building Regs 2013	Public Services	Implemented	2009 LCTP or later policies total	Yes	2014	2030	-	-	-
N10	Building Regs 2013	Residential	Implemented	2009 LCTP or later policies total	No	2014	2030	0.09	-	0.09
N11	CERT+20% & Extension	Residential	Implemented	2009 LCTP or later policies total	Yes	2010	2030	-	-	-
N12	CESP	Residential	Implemented	2009 LCTP or later policies total	Yes	2011	2030	-	-	-
N13	CRC	Commercial Services	Implemented	2009 LCTP or later policies total	Partial	2011	2030	1.53	0.26	1.27
N14	CRC	Industry	Implemented	2009 LCTP or later policies total	Partial	2011	2030	0.03	0.01	0.03
N15	CRC	Public Services	Implemented	2009 LCTP or later policies total	Yes	2011	2030	-	-	-
N16	Domestic RHI	Residential	Implemented	2009 LCTP or later policies total	No	2012	2030	2.42	0.03	2.39
N17	ECO/Green Deal	Residential	Implemented	2009 LCTP or later policies total	Partial	2013	2030	2.36	-	2.36
N18	EPBD	Commercial Services	Scrapped?	2009 LCTP or later policies total	N/A	-	-	-	-	-
N19	ESOS	Commercial Services	Planned	2009 LCTP or later policies total	Partial	2016	2030	0.62	-	0.62
N20	ESOS	Industry	Planned	2009 LCTP or later policies total	Partial	2016	2030	0.15	-	0.15
N21	LSTF	Transport	Implemented	2009 LCTP or later policies total	Yes	2011	2030	-	-	-
N22	ND Green Deal	Commercial Services	Scrapped?	2009 LCTP or later policies total	N/A	-	-	-	-	-
N23	ND Green Deal	Industry	Scrapped?	2009 LCTP or later policies total	N/A	-	-	-	-	-
N24	ND RHI	Commercial Services	Implemented	2009 LCTP or later policies total	Partial	2013	2030	1.66	-	1.66
N25	ND RHI	Industry	Implemented	2009 LCTP or later policies total	Partial	2013	2030	0.89	-	0.89
N26	ND RHI	Public Services	Implemented	2009 LCTP or later policies total	Yes	2013	2030	-	-	-
N27	ND RHI	Waste	Implemented	2009 LCTP or later policies total	N/A	2013	2030	-	-	-
N28	New CCAs	Industry	Scrapped?	2009 LCTP or later policies total	N/A	-	-	-	-	-
N29	Products policy	Commercial Services	Implemented	2009 LCTP or later policies total	Partial	2009	2030	11.02	2.05	8.97
N30	Products policy	Industry	Implemented	2009 LCTP or later policies total	Partial	2009	2030	0.30	0.05	0.25
N31	Products policy	Public Services	Implemented	2009 LCTP or later policies total	Yes	2009	2030	-	-	-
N32	Products policy	Residential	Implemented	2009 LCTP or later policies total	No	2009	2030	12.88	3.24	9.64
N33	PRS Regulations	Commercial Services	Planned	2009 LCTP or later policies total	Partial	2016	2030	1.16	-	1.16
N34	PRS Regulations	Industry	Planned	2009 LCTP or later policies total	Partial	2016	2030	0.04	-	0.04
N35	PRS Regulations	Public Services	Planned	2009 LCTP or later policies total	Yes	2016	2030	-	-	-
N36	PRS Regulations	Residential	Planned	2009 LCTP or later policies total	Yes	2016	2030	-	-	-
N37	Rail electrification	Transport	Implemented	2009 LCTP or later policies total	Yes	2013	2030	-	-	-
N38	Road biofuels (RTFO 8%)	Transport	Planned	2009 LCTP or later policies total	No	2017	2030	6.31	-	6.31
N39	Road vehicle efficiencies	Transport	Implemented	2009 LCTP or later policies total	No	2010	2030	12.47	1.64	10.83
N40	Smart Metering	Commercial Services	Implemented	2009 LCTP or later policies total	Partial	2012	2030	2.11	0.09	2.02
N41	Smart Metering	Residential	Implemented	2009 LCTP or later policies total	No	2012	2030	3.80	0.05	3.76
N42	SME & SALIX Loans	Public Services	Planned	2009 LCTP or later policies total	Yes	2016	2030	-	-	-
N43	Zero Carbon Homes	Residential	Implemented	2009 LCTP or later policies total	N/A	2014	2030	-	-	-

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