Annex 2

AQAP3 – draft measures framework

HEADLINE MEASURES

Direct actions that can be implemented now to reduce emissions from existing vehicles:

Measure 1: Development and implementation of a Clean Air Zone (CAZ)

Measure 2: Development and implementation of anti-idling measures

Measure 3: Further development of Eco-stars fleet recognition scheme

FUTURE MEASURES

Plans and actions that will be implemented over the next 6 years to reduce emissions:

Measure 4: Development and implantation of LES based planning guidance

- Measure 5: Planning and delivery of strategic EV charging network
- Measure 6: Planning and delivery of CNG refuelling infrastructure in York
- Measure 7: Reducing emissions from taxis

Measure 8: Reducing emissions from freight

Measure 9: Reducing emissions from CYC fleet

SUPPORTING MEASURES

That will help to win 'hearts and minds' and encourage local engagement in AQAP3 delivery

Measure 10: Marketing and communications strategy

Measure 11: Local incentives for low emission vehicles and alternative fuel use

Measure 12: Attracting low emission industries, business and jobs to York

That will lead to wider congestion reduction and transport improvements in the city

Measure 13: Modal shift and network improvement measures

That will deliver reductions in emission from non-transport sources

Measure 14: Other air quality improvement measures

Table key

ý	Impact	Cost				
	Positive impact	£	< £10,000			
	Neutral impact	££	>10,000 < 50,000			
	Negative impact	£££ >50,000 < 100,000				
		££££	>100,000			

Measure 1	asure 1 Development and implementation of a Clean Air Zone (CAZ)						
Key intervention							
Setting of differential emission standards for buses entering the inner ring road area based on frequency of service.							
Expected outcome							
82% of bus movements on inner ring road will be electric (zero emission) by 2018.							
Target							
Emission source	2S			Local bus	ses	1	
AQMAs where e	AQMAs where emissions are expected to reduce due to this measure					Salisbury Terrace	
Key Actions				Responsi	ibility	Target date	
(a) Develop a ro	admap for lo	w emi	ssion buses	CYC		completed	
(b) Develop drat	ft proposal fo	or CAZ	and consult with bus operators	CYC		May 2014	
(c) Implement C	CAZ			CYC		2015	
(d)Work with op	perators to se	ecure f	unding / loans for vehicle upgrades	CYC		ongoing	
(e) Monitor imp	act of CAZ or	n local	air quality and emissions	CYC		ongoing	
Estimated imple	ementation	ost	Direct costs to CYC (implementation	n and enfo	rcement) = £1	ГВА	
			Cost of bus upgrades to meet requi	rements =:	E TBA		
Estimated emis savings	sion / fuel		Every electric bus introduced into the emissions of NO2 and PM10 and re	he CAZ wil duce CO2 (l completely re emissions by a	emove local ipprox 35 tons.	
Proposed fundi	ng streams		Routine operator investment	Dev	veloper contri	butions	
			Green Bus Fund bids	Clean	er Bus Techno	logy Fund bids	
Related LES me	asures		9G,9I,8J,8L,4J				
Links to council plan			Get York Moving / Protecting vulne / Protect the environment	rable peop	le/ Supporting	g economic growth	
Expected	overall	con	ment				
impacts							
Local economy		Low	Low emission buses will improve the image of the city with positive implications for				
		tou	rism and inward investment				
Feasibility		Sim alre	ilar schemes already in place in Oxfor ady in place in Coventry.	rd and Nor	wich. Electric	P&R scheme	
Congestion		No mo	change to bus numbers, may be a slig re attractive to current car users or fa	ghtly positi ares reduce	ve impact if el e as a result of	ectric buses appear fuel savings	
Capital costs	££££	Upg offs	rading of buses involves high costs b et by grant applications	ut where p	ossible these	will be met or	
Revenue costs	£	Aft	er initial scheme set up resourcing co	osts will be	low		
Local air quality		Zer	o emission buses will result in signific ticles across the city, especially in AQ	ant emissio MAs	on reductions	for NO _x and	
Greenhouse gas	3	Red	uced emissions of CO_2 in York Less (Ω_{2} produc	red from gene	ration of electricity	
emissions	·	nee	ded to run electric buses than that ge	enerated b	v equivalent d	liesel bus engines.	
		Use	of green electricity tariffs can improv	ve this furt	her.		
Planning and		Imp	roved air quality offers more opport	unity for ci	ty centre living	z. Zero emission	
development		bus	es lessen environmental impact of in	creased de	mand on pub	lic transport from	
·		рор	ulation growth. Contributions towar	ds low em	ission buses ca	an be sort from	
		dev	elopers				
Socio-economic		Imp	act on bus fares currently unknown.	Some may	pass on fuel	cost savings to	
		red	uce fares, others may pass on cost of	purchasin	g newer or ret	rofitted vehicles	
		and	increase fares				
Communities		No	loss of bus services anticipated as a re	esult of thi	s measure. Ma	ay accelerate	
		pro env	vision of easy access buses on some r ironment.	outes. Wil	l improve pub	lic health and the	
Public		Rep	lacement of older diesel buses with r	newer, clea	ner, quieter b	uses likely to have	
perception		pos	itive implications				
Other benefits		Red	uced noise from vehicles. improved r	bassenger	experience		
			······································		F		

Measure 2 Development and implementation of anti-idling measures								
Key intervention	Key intervention							
Engagement with vehicle operators to highlight economic and environmental impacts of idling.								
Expected outcom	ne							
Reduced idling e	missions							
Target	Target							
Emission sources	;			Local service buse	s, coaches, HGVs			
AQMAs where er	missions are	expec	ted to reduce due to		City control			
this measure City centre					City centre			
Key Actions				Responsibility	Target date			
(a) Undertake an	ti-idling feas	ibility	study	CYC / consultant	completed			
(b) Develop draft	t proposal ar	nd con	sult with stakeholders	CYC	May 2014			
(c) Draw up deliv	ery program	ime fo	r anti-idling measures	CYC	<mark>Sept 2014</mark>			
(d) Implement ar	nti-idling me	asures	5	СҮС	To be determined			
(e) Evaluate impa	act of anti-id	ling m	easures	CYC	Ongoing after implementation			
Estimated imple	mentation c	ost	£34,500 (based on 3 year	rs with enforcemen	t), less without enforcement			
Estimated emiss	ion / fuel		At 5 busiest service bus l	ocations in York est	imated savings per annum of			
savings			1,526kg NOx, 36kg PM ₁₀	, CO_2 46555 kg and	17949 litres of fuel (assuming no			
			idling from buses over 1	minute). Actual sav	rings anticipated to be much higher			
			if enforced at all location	s and inclusive of al	l vehicle types.			
Proposed fundin	g streams		To be determined					
Related LES mea	sures		4B, 4F					
Links to council	olan		Get York Moving /Protecting vulnerable people/ Supporting economic growth /					
			Protect the environment					
Expected	overall	com	ment					
Local economy		Redu	uced idling will improve the	e image of the city v	with positive implications for			
		tour	ism and inward investmen	t.	· · · · · · · · · · · · · · · · · · ·			
Feasibility		Simi	ar schemes already in plac	e around the UK eg	. North Lincs, Croydon, Scotland,			
		Dud	еу					
Congestion		May	help to discourage waiting	g which could assist	congestion			
Capital costs	£	Som	e small costs associated wi	ith signage - possib	ly from Better Bus Area 2 Fund TBC			
Revenue costs	£	Staff	ing costs – possibly from B	etter Bus Area 2 Fu	nd TBC			
			0 1 7					
Local air quality		Redu	uced emissions will have po	ositive impact on lo	cal air quality			
Greenhouse gas		Sign	ficant reduction in local CO	D ₂ emissions				
emissions		_						
Planning and		Impr	oved air quality offers mo	re opportunity for c	ity centre living. Anti-idling			
development		mea	sures will help reduce imp	act of increased bus	s services associated with			
•		рорі	ulation growth.					
Socio-economic		No ii	mplications					
Communities		Will	help protect public health	and improve the er	wironment.			
Public perception	n	Cont	rol of idling emissions will	reduce complaints	about this issue and create a safer			
		and	more pleasant environmer	nt.				
Other benefits		Will	assist bus operators to enf	orce their own poli	cies and could result in			
		cons	iderable fuel savings and r	educed operating c	osts. Reduced noise from idling			
		vehi	cles.					

Measure 3	Further deve	elopment of ECO-stars flee	t recognition sc	heme			
Key intervention	Key intervention						
Provision of advid	ce and encou	ragement to fleet operato	rs to help them	reduce emissio	ns from their fleets through		
the use of better	the use of better driving techniques, improved fuel management and vehicle upgrading						
Expected outcom	1e		<u> </u>				
Reduced emissio	ns from fleet	t vehicles					
Target							
Emission sources			buses, coaches	s. HGVs. LGVs (n	ossible expansion to taxis)		
AOMAs where er	nissions are	expected to reduce due		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
to this measure			City centre	Fulford	Salisbury Terrace		
Key Actions			Responsibility		Target date		
(a) Implement EC	O-stars sche	eme in York	CYC / consulta	nt	Completed (March 2013)		
(b)Investigate op	portunities t	o expand ECO-stars	CYC /consultar	nt	December 2014		
scheme to includ	e compulsor	y sign up linked to CYC					
contracts and por	tential taxi s	cheme					
(c) Evaluate impa	ct of current	ECO-stars scheme	consultant		December 2014		
(d)Investigate fut	ure funding	for ECO-stars	consultant		ongoing		
(e)Draw up action (if funding is obt	n plan for EC	O-stars beyond 2014 tinue the scheme)	CYC / consulta	nt	December 2014		
Estimated imple	mentation	Eco-stars currently fully f	L Funded until Nov	ember 2014 – a	additional costs		
cost		approximately £30,000 a	nnum				
Estimated emissi	ion / fuel	A quantitative impact of	the ECO-stars so	heme in York w	ill be provided by the		
savings	-	current scheme manager	rs in 2014.				
Proposed fundin	g streams	To be determined					
Related LES mea	sures	3A,4A,6A,3C,4E,6G, 7F,3I	E,4H,5G,6L,7N				
Links to council p	olan	Get York Moving /Protec	ting vulnerable	people/Support	ing economic growth /		
		Protect the environment					
From a set of all	II	comment					
Expected	overall	comment					
impacts	overall	comment					
impacts Local economy	overall	comment	our and cleaner	vehicles will imp	prove the image of the city		
impacts Local economy	overall	Improved driving behavio with positive implication	our and cleaner s for tourism and	vehicles will imp d inward investi	prove the image of the city ment. The implementation		
impacts Local economy	overall	Improved driving behavio with positive implication of ECO-stars fleet roadm	our and cleaner s for tourism and aps can result in to become mor	vehicles will imp d inward investi considerable fu	prove the image of the city ment. The implementation uel cost-savings for local		
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Measure 4	Measure 4 Development and implementation of LES based planning guidance							
Key intervention	n							
Development of	Development of local planning guidance that will require developers to fully demonstrate the emission impact of							
their developme	ent, ca	alcula	ate en	niss	ion damage costs and pr	ovide emissio	n mitigation in th	ne form of on-site low
emission measu	res ai	nd/o	r cont	ribu	itions towards the provis	sion of wider l	ow emission infr	astructure
Expected outcome	me							
Minimisation of	deve	lopm	nent re	elat	ed emissions and financi	al support for	low emission inf	frastructure projects
Target								
Emission source	S					Developmer	nt related transpo	ort and vehicles that service
						new develop	oments e.g buses	s, refuse collection
AQMAs where e	emissi	ions a	are ex	pec	ted to reduce due to	City centre	Fulford	Salisbury Terrace
this measure								
Key Actions						Responsibili	ty	Target date
(a) Embed low e	emissi	ion re	equire	me	nts into draft LDP	CYC		Completed
(b) Develop, con	nsult o	on an	nd ado	pt l	LES planning guidance	CYC		July 2015
Estimated imple	emen	tatio	n cost	t	No additional costs out	side current s	taffing resources	to develop guidance.
					Additional staff may be	required to in	mplement guidar	nce.
Estimated emiss	sion /	/ fuel	l		These will be calculated	d and reported	d per developme	nt. The cumulative
savings					emission savings per ar	num are likel	y to be very large	e for NO _x , PM and
					greenhouse gases.			
Proposed funding	ng str	ream	S		No additional funding r	equired for de	evelopment of gu	uidance note
Related LES mea	asure	s			2F,2G,1M,1G,2B,2C,2H	,2I,2A,2D,2E		
Links to council	plan				Get York Moving / Prot	ecting vulnera	able people/ Sup	porting economic growth /
					Protect the environmer	nt		
Expected impac	ts	ove	rall	Co	Comment			
Local economy				Ef	fective management and	l mitigation of	development re	lated emissions will help
				m	aximise development op	portunities.		
Feasibility				LE	S based planning guidan	ce is already a	idopted and in u	se in Bradford. Other
Concertion		.			ocuments are at an advar	iced stage of o	development e.g	. West Midlands, Sussex
Congestion		╹╵╵		INC	impact on congestion			
Capital costs		╹╻╏╴╏		Nic	capital cost implication	<u></u>		
Capital Costs		╹╹		INC	capital cost implication	5		
Davidation				<u></u>	- ff +			
Revenue costs		tt		Sta	aff costs associated with	assisting deve	elopers to compl	y with the new guidance
				mi	itigation plans In the lor	and effectivel	ress of emission	e staffing levels
Local air quality				En	nission mitigation measu	res should he	In minimise furth	per deterioration in local air
Local all quality				au	ality as the result of dev	elopment and	l may result in ai	r quality improvement in
				SO	me cases.	e.epe		
Greenhouse gas	;			LE	S planning guidance will	also help redu	uce greenhouse g	gas emissions
emissions							-	
Planning and				LE	S planning guidance prin	ciples already	embedded into	draft Local Plan. Enables
development				lo	w emission measures to	be installed in	to new developr	nents
Socio-economic				De	evelopers may add on co	st of emission	mitigation to pr	operty purchase / rental
				со	sts which may exclude so	ome buyers/ ι	users	
Communities				En	ables low emission meas	sures to be ins	stalled into new o	developments
Public perceptio	n			Pr	ovision of low emission v	ehicle infrast	ructure, low emi	ssion vehicles and travel
				pla	anning measures on new	development	ts will make deve	elopments more attractive
				to	the end users and offer	opportunities	to showcase low	emission measures to the
				wi	der population of York.	In some cases	the provision of	low emission measures
				m	ay improve public accept	ability of a sc	heme.	
Other benefits				Сс	ontributions towards low	emission pub	lic transport, ser	vice vehicles and other low
				en	nission intrastructure wil	I have positive	e air quality and	climate change benefits
				be	yong development sites	and help to a	cnieve a general	improvement in public
				tra	ducing the amount of an	nave a clear i	nuication of wha	t is expected from them
				re	uncing the amount of pro-	e-hiaining ais	cussion required	I.

Measure 5 P	Planning and delivery of strategic EV charging network						
Key intervention							
Planning and prov electric hybrid vel	Planning and provision of a strategic network of EV charging points to maximise the uptake of electric and plug-in electric hybrid vehicles in the city.						
Expected outcom	е						
Increased uptake	of electric	vehi	cles				
Target							
Emission sources				Buses, LGVs, tax	is and cars	(fleet and privately owned)	
AQMAs where em	hissions are	e exp	ected to reduce due to	City centre	Fulford	Salisbury Terrace	
Key Actions				Responsibility		Target date	
(a) Provide fast ch	arge publi	ic EV	charging capacity in CYC	CYC		Achieved (October 2013)	
car parks	•						
(b) map existing E	V charging	g infr	astructure and identify	СҮС		March 2014	
(c) Provide rapid c	harge EV	charg	ging facilities	СҮС		July 2014	
(d) Develop a stra	tegic appr	oach	to obtaining EV charging	СҮС		December 2014	
on new developm	ents linke	d to I	EV infrastructure map				
(e) Pursue provision points in areas wh	on of priva Iere a nee	itely d has	owned EV charging s been identified	CYC		Ongoing	
Estimated implen	nentation		10 fast chargers already p	provided in CYC ca	r parks, £2	232,500 for 7 rapid chargers	
cost			has already been secured	, with provision a	lready in p	lace at Poppleton P&R	
Estimated emission	on / fuel		Total Impact of implemen	nting EV charging i	s difficult 1	to quantify due to	
savings uncertainties over electr			uncertainties over electric	c vehicle uptake b issions of NO and	ut for ever	ry conventionally fuelled	
Proposed funding streams Developer contributions / Local sponsorship / pr					p / provisi	on of open use points / grants	
Related LES measures2A,2B,2C,2D,2E,2H,2I,4D,				5B,B,6C,6D,6E,6N	1,8F,8J		
Links to council plan Get York Moving / Support				rting economic gr	owth/ Prot	tecting vulnerable people /	
	1		Protect the environment				
Expected impacts	overall	cor	nment				
Local economy		Go	od EV charging network pro	ovides EV drivers	with more	confidence to visit York for	
		bus	siness or leisure trips and m	nay influence dest	ination cho	pice. Development and	
		ma	intenance of EV charging n	etwork creates jo	bs. Switch	ing to EVs can offer	
		cor	isiderable fuel and tax savi	ngs to local busine	esses and r	esidents.	
Feasibility		Put	blic EV charging and a pay a	is you go back offi	ice system	already in place in York	
Congestion		NO	impact on congestion				
Capital costs	££	Ma nee	jor capital costs already me eds to be met through deve	et through externation	al grants. F ns, local sp	iuture infrastructure provision ponsorship and further grants.	
Revenue costs	ff	Re۱	venue costs associated with	n operating the ba	ick-office s	ystems to support public EV	
		cha	arging. As EV ownership ind	creases revenue c	osts will be	e offset by profit made from	
		ele	ctricity sales to become cos	st neutral or bette	er.		
local air quality		EVs	s have a positive impact on	local air quality a	s zero emis	ssion at point of use	
Greenhouse gas		Ele	ctric vehicles will have a po	sitive impact on g	reenhouse	e gas emissions especially if	
emissions		ро\	wer is obtained through gre	een tariffs.			
Planning and		LES	planning guidance princip	les already embed	lded into c	Iraft Local Plan including	
development		req	uirement for EV infrastruct	ture on new deve	opments.	•	
Socio-economic		Pro peo	ovision of a strategic EV net ople. Initial vehicle purchas	work opens up th se price may curre	e option o ently be a b	f EV ownership to more parrier to some people.	
Communities		Tho	ose unable to afford an EV	will not be able to	benefit fr	om the provision of EV	
		cha	arging infrastructure but wi	ll be free to conti	nue using t	heir existing vehicles	
Public		Init	ial concerns about need fo	r EV charging infra	astructure	expected to decrease and	
perception		bec	come more positive as the	public begin to re	cognise the	e penefits of EV ownership.	
Other benefits		Wi	despread EV vehicle uptake	e will reduce traffi	c noise lev	els.	

Measure 6 P	lanning ar	nd deli	very of CNG refuellin	ng infrastructure i	n York			
Key intervention								
Providing the infrastructure required to enable fleet operators to run their vehicles on compressed natural gas								
(CNG) and / or bio-	(CNG) and / or bio-methane which both offer reduced emissions of local and global air pollutants.							
Expected outcome					1.0			
Increased uptake o	Increased uptake of CNG and bio-methane as an alternative fuel within local fleets							
Target	Target							
Emission sources				Local service bus	ses, coache	es, HGVS, LG c o g tavic)	vs (potential for	
AOMAs whore omi	expansion to other vehicles e.g. taxis)							
to this measure	5510115 die	expec		City centre	Fulloru		Salisbury refrace	
Key Actions				Responsibility	1	Target date	<u>ا</u>	
(a) Investigate feas	ibility of e	stablis	shing a CNG	CYC / external co	onsultant	Ongoing pr	roiect	
refuelling plant in Y	fork and p	otenti	al demand levels		Jilourtailte	0180118 01	oject	
(b) Work towards s	ecuring ex	terna	l investment in a	CYC / external co	onsultant	Ongoing		
CNG refuelling plan	nt			,		- 0- 0		
(c)Deliver a CNG re	fuelling pl	ant in	York	CYC / external co	onsultant	End of 201	6	
Estimated impleme	entation c	ost	To be determined	•				
Estimated emission	n / fuel		To be determined.	A vehicle running o	on CNG ha	s significantl	y smaller emissions	
savings			of NO ₂ , PM ₁₀ and C	O ₂ compared with	a diesel e	quivalent. Ex	xact reductions	
			depend on the type	e of conversion, siz	e of vehic	le. Even grea	ater reductions in	
			CO ₂ arise from use	of bio-methane (g	as derived	from anaero	obic digestion).	
Proposed funding streams Private investment, Developer contributions, Grant schemes						S		
Related LES measures 2F,2G,2H,3D,3F,6N,6O,7M,8J,9E								
Links to council pla	an		Get York Moving / F	Protecting vulnera	ble people	e/ Supporting	g economic growth	
	1	/ Protect the environment						
Expected	overall	Com	Comment					
impacts					·	1.1		
Local economy		Redu	ices operator transpo	ort costs, creates n	ew indust	ry and jobs, a	allows late hight	
		freig	ht consolidation facil	ities industrial uni	, can neip	ice snace		
Feasibility			refuelling plants alre	ady operational in	Leeds and	d Sheffield		
reasibility		cito		ady operational in	Lecus un	a Shernela		
Congestion		Quie	ter operation of CNG	vehicles may allo	w some de	eliveries to o	ccur later at night	
U		or ea	arlier in the morning I	helping to free up	road space	e during peal	k delivery periods.	
Capital costs	ffff	High	capital costs involved	d but should be ab	le to attra	ct private inv	vestment	
Revenue costs	ff	Som	e CYC staffing resour	ces required to de	liver the p	roject but wi	ill be met from	
		exist	ing staffing resources	s. Longer term res	ource cost	ts will be me	t by private	
		oper	ator.					
Local air quality		CNG	and bio-methane pro	oduce less NO _x and	d PM			
Greenhouse gas		CNG	and bio-methane off	fers considerable C	CO ₂ saving	s compared v	with diesel engines.	
emissions		Bio-r	nethane can be prod	uced from digestic	on of wast	e materials.		
Planning and		Wor	k is ongoing to try an	d secure a site for	CNG refue	elling infrastr	ucture within the	
development		Loca	I Plan allocations				· · · ··	
Socio-economic		Pres	ence of CNG / bio-me	ethane refuelling w	/III otter ch	heaper and c	leaner fuel to fleet	
Communities		oper	ators which in turn sl	noula nelp reduce	the cost o	T local goods	and services.	
			nplications	likolu to have a			norconting of	
Public perception		Liea	ner, quieter venicies	May be some loc	sitive impa	act on public	perception of	
		refu	alling infrastructure	. widy be some lot	ai objecti			
Other benefits		Redu	ired vehicles noise le	vels notential div	ersion of v	vaste from la	andfill or	
		incin	eration to produce b	io-methane.	2.3.0.1 OI V			

Measure 7	Aeasure 7 Reducing emissions from taxis						
Key intervention	Key intervention						
Introduction of incentives and licensing requirements that will encourage replacement of older diesel taxis (hackney and private hire) with newer hybrid vehicles. There are currently 750+ licensed vehicles operating in York							
Expected outco	me						
Removal of olde	r diesel vehi	cles fro	om taxi fleet				
Target	Target						
Emission source	S			Hackney and private	hire taxis (parti	icularly diesel vehicles)	
AQMAs where emissions are expected to reduce due				City centre	Fulford	Salisbury Terrace	
to this measure							
Key Actions				Responsibility	Target	t date	
(a) Develop a local incentive for the uptake of hybrid vehicles in the taxi fleet				СҮС	In ope	ration	
(b) Secure fundi	ng to continu	ie hyb	rid taxi incentive	CYC	ongoir	ng	
(c) Investigate other options for reducing emissions from taxis, including possibility of expanding ECO- stars scheme to taxis			СҮС	End of	f 2014		
(d) Consider cha	rging require	ement	s for taxis	CYC	End of	2014	
 (c) develop a taxi emission reduction including a possible loan scheme for hybrid vehicles 			on strategy or electric and	СҮС	End of	f 2015	
Estimated imple	ementation of	ost	ТВС				
Estimated emission / fuel A hyb			A hybrid taxi produces approx 8 tonnes per annum of CO2 less than a diesel				
savings			hybrid taxis have already been delivered through the existing grant scheme.				
Proposed funding streams Under investigation			า				
Related LES mea	asures		5A,5B,5C,5D,5E,5F,	,5G,5H,5I			
Links to council	plan		Get York Moving /F	Protecting vulnerable p	eople /Support	ing economic growth	
Expected	overall	com	comment				
impacts	orerun						
Local economy		A cle touri	cleaner taxi fleet will improve the image of the city with positive implications for ourism and inward investment. Use of hybrid vehicles offers considerable fuel cost-				
		savir	ngs for local taxis ope	erators.			
Feasibility		Hybr	rid taxi incentive has	been very successful to	o date. Eco-stai	rs has been applied	
Congestion		No ir	npact on congestion				
Capital costs	££££	A hig majo	th level of capital investigation of the taxi fleet with taxi flee	estment is needed to i with hybrids. Grant fu	ncentivise repla nding is needed	cement of the I to meet this cost.	
Revenue costs	££	Addi adm	tional resourcing cos	ts associated with intr	oduction of ECC	D-stars for taxis and	
		reso	urces, any significant	expansion of the sche	me would reau	ire further resourcing.	
Local air quality		Redu	iced emissions will h	ave positive impact on	local air quality	/	
Greenhouse gas emissions		Redu	iced emissions will h	ave a positive impact c	on greenhouse g	gas emissions	
Planning and development		Clear econ	ner taxis and ECO-sta omic activity and po	ars membership can help offset the impact of increased pulation growth.			
Socio-economic		ECO- fleet	stars is free to join a operators as long as	nd participate in. It is they are willing to pro	therefore equal wide the necess	lly accessible to all sary fleet data.	
Communities		Need fleet	d to ensure an adequ . Electric taxis are ch	ate number of wheelc	hair accessible t reduce costs.	taxis remain in the	
Public perceptio	n	Clea	ner, quieter vehicles	likely to have a positiv	e impact on put	olic perception of	
Other benefits		Redu	iced noise levels fror	n late night taxis, newe	er vehicles impr	ove taxi fleet image	

Measure 8	Reducing e	Reducing emissions from freight				
Key intervention	n					
Introduction of a	delivery and	servici	ng plans for major o	organisations an	d key streets in the	e city and provision of a
freight transhipr	ment centre	(FTC)		-		
Expected outcome						
Reduction in the	e number and	d size o	of delivery vehicles e	entering the city	/ centre and other A	AQMAs. More deliveries
being made by f	oot, cycle or	low er	nission vehicle.			
Target						
Emission source	S			HGVs, LGVs		
AQMAs where e	missions are	expec	ted to reduce due	City centre	Fulford	Salisbury Terrace
to this measure						
Key Actions				Responsibility	1	Target date
(a) Undertake a	freight impro	oveme	nt study	CYC / external	consultant	Completed (June 2013)
(b) Draw up an a	action plan fo	or freig	ht improvement	CYC (CS)		ТВА
based on finding	g of freight in	nprove	ement study. To			
include mechani	ism and time	scale f	or delivery of a			
FCC.						
Estimated imple		ost				
Estimated emiss	sion / fuel		IBA			
Savings Bronosod fundir	a strooms		Brivata invostman	t Grant funds		
Proposed funding streams Private Investmer			it, Grant Tunus			
Related LES measures3B,9A,9C,9E						
Links to council plan Get York Moving			Protecting vuln	erable people / Sup	oporting economic growth /	
Function	overall		Protect the enviro	onment		
impacts	overall	com	nent			
		Rom	Demoval of some LICVs from the notwark and rescheduling of deliveries would			
Local economy		imnr	ove reliability of del	liveries for local	husinesses and cre	ate a more pleasant
		envir	conment for shoppe	rs and visitors.	FTC would create n	iew jobs.
Feasibility		FCC	centres are operation	nal in Newcastl	e and Bath. Ongoin	g discussions with a logistics
		comp	pany,			8
Congestion		Wou	Id help tackle city co	entre congestior	n particularly in sho	pping streets outside foot
		stree	t hours	-		
Capital costs	ffff	Sche	me would need con	siderable invest	ment from private	sector
Revenue costs	fff	Staff	ing and operation o	f the FTC.		
Local air quality		Redu	iced HGV emissions	will have positiv	ve impact on local a	air quality.
Creation		Deale			*****	
Greennouse gas		кеаи	iced HGV emissions	will have a posi	tive impact on gree	ennouse gas emissions
emissions						
Planning and		The l	ocal Plan recognise	s the need for f	reight consolidation	n tacilities
development						
Socio-economic	┟╵┃┃┃╟	NO IT	nplications			
Communities		No ir	nplications			
Public		Rem	oval of queuing HG	/s from city cent	tre in the morning v	will improve public realm.
perception						
Other benefits		Rem	oval of large HGVs f	rom the city cer	ntre will help protec	ct historic buildings. CNG
		refue	elling and freight co	nsolidation pote	entially can be linke	d together to provide
		deliv	ery to city centre by	/ low emission C	NG vehicles.	

Measure 9	Reducing e	emissio	ns from CYC fle	et			
Key intervention							
Further reduction	n in emissio	ons fror	n CYC fleet by re	educing total m	ileage, using l	ower emission vehicles and encouraging	
better driver behaviour.							
Expected outcon	ne						
Reduction in NO _x	and PM ₁₀ e	emissic	ons from CYC fle	et vehicles and ificant fuel cost	those operate	ed on behalf of CYC (including staff	
Target	Reduced	202 611	13310113 dilu 3igili	incant fuel cost	Savings shou		
Emission sources				CYC owned ve	hicles CYC st	aff owned vehicles (grey fleet)	
	nissions are	evner	ted to reduce	City centre	Fulford	Salishury Terrace	
due to this measure	ire			City centre	Tunoru	Suisbury retruce	
Key Actions				Responsibility	1	Target date	
(a) Introduction of	of further e	lectric	and hvbrid	Fleet manage	r	First replacements scheduled for	
vehicles into CYC	fleet					summer 2014. Ongoing upgrades across the fleet to follow.	
(b) Trial of 'Light	Foot' syste	m to re	duce	Fleet manage	r	2014	
excessive breakir	ig and acce	leratio	n				
(c) ECO-driver tra	ining for C	YC staf	f	Fleet manage	r	All LCV drivers to be trained within 2	
						years. Other staff to follow.	
(d) Further use o	f route opti	misatio	on tools to	Fleet manger		Ongoing	
reduce total mile	age and en	nission	S				
(e) Further reduc	tion in grey	/ fleet e	emissions and	Fleet manage	r	Ongoing	
introduction of a	CO ₂ emissi	on limi	t for personal				
vehicles eligible f	vehicles eligible for mileage payments						
Estimated imple	mentation	cost	ТВА				
Estimated emissi	on / fuel		ТВА				
Bronosed fundin	astrooms		Elect renewal	funding grants			
Proposed fundin							
Related LES mea	sures		4C,4G,5C,5F,6	F, 6K, 7A, 7B, 7C, 7	(Supporting)	J	
	nan		environment	nerable people	/Supporting e	economic growth /Protect the	
Expected	overall	com	nent				
impacts							
Local economy		A cle	aner CYC fleet ir	mproves city im	age and redu	ces operating costs. Uptake of new	
		techr	nology can prom	note local green	job creation.		
Feasibility		There	e are already a r	number of low e	emission vehic	cles within CYC fleet and links to car clubs	
Congestion		are w	vell established.	Good progress	s has already i	been made with reducing grey neet trips.	
	0.000	Ividy			inneys.		
Capital costs	tttt	fund	ires investment ing for alternativ	vely fuelled veh	s. Where pos icles.	sible this will be offset using grant	
Revenue costs		Fleet	improvements	to be delivered	by existing st	aff.	
Local air quality		A cle	aner CYC fleet w	vill contribute to	owards impro	ving local air quality	
Greenhouse gas emissions		A cle	aner CYC fleet w	vill help contrib	ute towards r	educing local CO ₂ emissions	
Planning and		A lar	ger CYC fleet wil	ll be needed to	service an exp	panding population and new	
development		deve	lopments. Clear	ner CYC vehicles	s will help red	uce the impact of a growing population.	
Socio-economic		No ir	nplications				
Communities		Fleet	improvements	help to protect	the health of	vulnerable residents	
Public		A cle	aner CYC fleet ir	mproves public	perception of	CYC and may encourage uptake of low	
perception		emis	sion vehicles by	others			
Other benefits		Alter	natively fuelled	vehicles can pro	ovide a bette	r driving experience for operator,	
		pote	ntial for conside	erable financial s	savings for CY	С	

Measure 10 N	Measure 10 Marketing and Communications Strategy							
Key intervention								
Raising awareness of air quality and health issues and providing information and advice on the purchase and								
use of low emission vehicles								
Expected outcome	2							
Increased awarene	ss of the h	ealth impacts	arising from	vehicle emissions and behavio	oural change in relation			
to the purchase an	to the purchase and use of low emission vehicles							
Target				Local residents businesses	and visitors			
	ssions are	expected to re	duce due	No direct impact but will sur	and visitors			
to this measure	3310113 016	expected to re	uuce uue	improvement measures	Sport wider AqmA			
Key Actions				Responsibility	Target date			
(a) Develop a mark	eting and	communicatio	ns strategy	CYC EPU and public health	ТВА			
(b) Undertake a pu	blic inform	nation campaig	n	CYC EPU and public health	ТВА			
(c) Upgrade JorAir	website			CYC EPU and public health	ТВА			
Estimated implem	entation c	ost	£45,000 (a	ir quality grant)				
Estimated emissio	n / fuel sa	vings	Not quanti	fiable				
Proposed funding	streams		Air quality	grant (secured funding)				
Related LES measu	ires		1A,1B,1C1	D,1E,1F,1H,1I, 1J,1K,1L1N,8A,8	3B,8I			
Links to council pla	an		Protect vu	Inerable people				
Expected	overall	comment						
impacts								
Local economy		Increasing aw	areness of a	ir quality and health issues an	id providing advice can			
		made on ners	ick udys dilu sonal transni	ort costs may result in more sr	num racinities. Savings			
		shopping, eat	ing out.		Jenuing in other areas eg.			
Feasibility		Air quality an	d health can	npaigns are taking place in oth	er cities			
Congestion		Campaign wil	l link to exist	ting I-travel York sustainable t	ravel initiatives.			
Capital costs		AQ grant fund	ding has bee	n secured to support this wor	k			
Revenue costs		To be met fro	om existing s	taff resources and grant fund				
Local air quality		The campaigr reduce emiss	n will encour ions of local	age investment in cleaner veh air pollutants	icles that will help			
Greenhouse gas		The campaigr	n will encour	age investment in cleaner veh	nicles that will help			
emissions		reduce emiss	ions of CO ₂	0	•			
Planning and development		Not applicabl	e					
Socio-economic		Campaign wil grants	l provide eco	onomic advice based on vehic	le choice and access to			
Communities		Campaign wil on health	l provide inf	ormation and advice on the in	npact of poor air quality			
Public perception		A successful o	ampaign wi	ll be perceived as worthwhile	and informative.			
Other benefits		Potential for i	increased su	pport for CYC work on air qua	lity and transport issues			

Measure 11 L	ocal incen	tives for low emission ve	hicles and altern	ative fuel use				
Key intervention								
Providing incentiv	Providing incentives for the purchase and use of low emission vehicles by residents, visitors, commuters and							
businesses	businesses							
Expected outcome	Expected outcome							
Increased uptake	of low emi	ssion vehicles by resident	s, visitors, comm	uters and busine	esses			
Target								
Key Audiences			Residents, visito	ors, commuters,	businesses			
AQMAs where em	issions are	expected to reduce	City centre	Fulford	Salisbury Terrace			
due to this measu	re							
Key Actions			Responsibility		Target date			
(a) Develop a low	emission v	ehicle incentive plan to	CYC		June 2015			
include parking in	centives, v	ehicle purchase						
incentives and veh	nicle use in	centives						
(b) Implement low	emission	vehicle incentive plan	CYC		Ongoing beyond June			
and report against	t delivery t	imescales within it.			2015			
Estimated implem	nentation	TBA						
cost								
Estimated emissio	on / fuel	ТВА						
savings		T						
Proposed funding	streams	To be investigated						
Related LES meas	ures	5E,6N,6I,8F						
Links to council pl	an	Get York Moving /Protecting vulnerable people /Supporting economic growth						
		/ Protect the environ	iment		0 0			
Expected	overall	comment						
impacts								
Local economy		Financial savings made	through purchase	and use of low	emission vehicles will			
		reduce fuel costs for use	ers leading to imp	proved competiv	eness for local business			
		and greater consumer s	pending in other	areas e.g. leisure	e, shopping etc. Low			
		emission vehicles will he	elp improve publi	c realm with ber	nefits for tourism and			
E thatta		inward investment. Link	s to an "Oyster" 1	type card				
Feasibility		challenges associated w	novative and the	re will be previo	usly untested risks and			
Congestion		No impact on congestio		011.				
Congestion		No impact on congestio	11					
Capital costs	£	There may be some sma	all capital costs re	lating to signage	e. leaflets, point			
		collection cards etc	·	0 0 0	, ,,			
Revenue costs	££	Provision of incentives v	will have some on	going revenue c	osts e.g. potential loss			
		of parking income, prov	ision of rewards e	etc.				
Local air quality		Increased uptake of low	emission vehicle	s will have posit	ive implications for local			
		air quality						
Greenhouse gas		Increased uptake of low	emission vehicle	s will have positi	ive implications for			
emissions		greenhouse gases						
Planning and		Some incentives may be	e able to be linked	to developer er	mission mitigation			
development		measures			5			
Socio-economic		Can be applied to walki	ng, cycling, public	c transport and l	ow emission vehicle use			
		to ensure all positive be	havioural change	s are rewarded a	and not limited only to			
	those able to afford low emission vehicles.							
Communities		Incentives to be accessil	ble to all, includin	ig non-drivers ar	nd those with disabilities			
Public		Opportunities for finance	cial or material ga	in are likely to b	e viewed positively by			
perception		the majority						
Other benefits		Incentives can be linked	through to touri	sm and inward ir	nvestment opportunities			

Measure 12	e 12 Attracting low emission industries, business and jobs to York						
Key intervention							
Promotion of York as a supportive and welcoming environment for low emission businesses and industries,							
including the provision of relevant education and skills development.							
Target							
Key Audiences				Potential inward investors and existing low			
				emission businesses and industries. Educational			
				establishments and other training providers.			
AQMAs where em	issions are	expec	ted to reduce due to	No direct impact but will support wider AQMA			
this measure				Improvement measures			
Creation of a desir	anod 'aroor	huh'	dovelopment area to		Target date		
encourage investr	nent hv <i>f</i> ør	reen'a	ind 'low emission'		ongoing		
industries	incline by Bi						
Creation of more	high value /	/ high	productivity jobs in	Task and Finish Working	ongoing		
the 'green' busine	ss sector	0		Group – York Economic	0 0		
				Partnership Board			
Estimated implem	nentation c	ost	Facilitation by existin	g staff resources in EDU			
Estimated emission	on / fuel		Not quantifiable				
savings							
Proposed funding	streams		To be investigated				
Related LES meas	ures		1C,6D,6H,7I,8A,8C,8D,8G,8L				
Links to council p	lan		Supporting economic growth				
Expected	overall	comment					
impacts							
Local economy		Development of new job and training opportunities					
Feasibility		York has already successfully marketed itself as a 'science city' a similar					
Connection		approach can be take to place an emphasis on low emission / green technology					
Congestion		through the use of sustainable sites and good travel planning					
Canital costs		Small levels of additional investment may be needed to support promotional					
Cupital Costs		and marketing activities. Larger capital projects such as provision of new					
		train	vestment or partnerships				
		with other organisations.					
Revenue costs		Measures to be facilitated by existing EDU staff resources and partner					
		organisations					
Local air quality		Presence of low emission industries will help raise the profile of the Low					
		Emission Strategy and promote further use of low emission vehicles					
Croonhouse gas		renewable energy sources. This will help reduce emissions of local air pollutants					
emissions		Presence of low emission industries will help raise the profile of the Climate					
emissions		Change Action Plan and promote the use of low emission vehicles and					
Planning and		Opportunities for low emission industries can be incorporated into the planning					
development		system					
Socio-economic		Creates new high value / high productivity jobs and training opportunities					
Communities		Employment and other opportunities will be available to all					
Public perception		Creation of new job and training opportunities likely to have a positive impact					
Other benefits		Opportunities to divert waste from landfill and incineration if gas industries can					
	be attracted to the area. Potential for increased uptake of wind and solar energy						
		prod	uction at a local level.		51		

Measure 13 Mo	Measure 13 Modal shift and network improvement measures						
Key intervention							
Continued application of modal shift and congestion reduction measures through Local Transport Plan 3, Better Bus Area and Local Sustainable Transport Fund initiatives. Capital funding for larger transport infrastructure interventions such as an upgrade of the Outer Ring Road, providing an alternative route for city centre through traffic, Bus improvement measures and a further P&R site at Clifton Moor are dependent on the success of the £83.5m West York Plus Transport Fund bid.							
Target							
Emission sources				All vehicles,			
Key audiences				walkers, cyclists, public transport users, motorists			
AQMAs where emiss	sions are ex	pected	to reduce due to	City centre	Fulford		Salisbury Terrace
this measure							
Key Actions				Responsibili	ty	Tai	rget date
Continued delivery of I-travel York sustainable travel programme which includes walking, cycling and public transport improvements, personalised journey planning, provision of travel information, promotional events etc. http://www.itravelyork.info/				Sustainable On going Transport Service			
Implementation of A	Access York	Phase	1 - delivery of P&R	Sustainable		Co	mpletion June 2014
sites at Poppleton a	nd Askham,	impro	ements to the	Transport Se	ervice		
A59/A1237 roundab	out and cre	eation o	f bus priority route			_	
Public Transport sch	emes. City	centre	ous stop	Sustainable		On	going
improvements, off b	us ticket m	achine	s, interchange	Transport Se	ervices		
Estimated implement	ntation cos	nation +	Access Vork £22.7m	BBAE f2 5m l	STE £4 6m	No	w funding from BBA2
Estimated implement		L	Approx. f1.2m up to	2017/18			
Estimated emission	/ fuel savir	ngs	Not quantified	, 2017, 10			
Proposed funding st	treams	0-	LTP3, LSTF, Major Schemes Funding. Better Bus Area. Local Growth Fund				
			(Dependent on Strategic Economic Plan bid by LEPs)				
Related LES measures			9F,9L,9R				
Links to council plan			Get York Moving /Protecting vulnerable people/Supporting economic growth / Protect the environment				
Expected impacts	overall	comment					
Local economy		Reduced congestion and improved public transport improve the public realm and support economic growth					
Feasibility		Measures are included in existing CYC policies					
Congestion		LTP3 aims to control congestion increases by encouraging use of sustainable					g use of sustainable
		modes. LSTF programme aims to increase cycling levels by 20%, w					y 20%, walking by 10%
		and bus use by 10%					
Capital costs	ffff	To be confirmed. Major Transport interventions such as an upgrade of the Outer Ring Road, Bus improvement measures and a further P&R site at Clifton Moor are dependent on the success of the £83.5m West York Plus Transport Fund.					
Revenue costs				m the Better Bus Area 2 package will provide revenue			
		resou	rce to support Public T	ransport in th	e City. Con	tinua	ation of the LSTF project
		beyor	nd 2014/15 is depende	nt on the succ	ess of a bio	d to t	the DfT in March 2014.
Local air quality		Congestion reduction and sustainable transport measures support local air quality improvement					
Greenhouse gas		Congestion reduction and sustainable transport measures support greenhouse					
emissions		gas reduction					
Planning And		Meas	ures to reduce congest	tion and encou	Irage susta	inab	le travel can help offset
development		traffic impact of new development					
Socio-economic		Some measures may improve access to some areas of the city for some users					
Communities		Modal shift measures support provision of accessible transport for all					
Public perception		Some measures to reduce congestion and improve access for public transport					
		may k	e unpopular with the	general public	•		
Other benefits		None	identified				

Measure 14 Other air quality improvement measures							
Key intervention							
Control of emissions to air from PPC regulated industries, enforcement of Clean Air Act provisions in relation to							
dark smoke and sm	noke contr	ol area	as				
Target							
Emission sources				Industrial and domestic point source emissions			
AQMAs where emi	ssions are	expec	ted to reduce due to	City centre Salisbury Terrace			
this measure							
Key Actions				Responsibility	Target date		
(a) Active regulati	ion of indu	stries	subject to PPC regs	CYC EPU	ongoing		
(b) Active enforce	ement of da	ark sm	oke offences under	CYC EPU	ongoing		
Clean Air Act							
(c) Active enforcement of smoke control areas				CYCEPU	ongoing		
Estimated implementation cost Ongoing costs deliv				ered by existing staff resources			
Estimated emissio	n / fuel		Not quantified				
savings							
Proposed funding	streams		Existing staff resourc	es			
Related LES measu	ires		Wider air quality measure not related directly to LES delivery				
Links to council pla	an		Supporting economic growth				
			Protecting the enviro	ironment			
Expected	overall	comment					
		FDII	nrovides advice and su	innort to local industries	to help them to meet		
Local economy		emission regulation requirements. This can also reduce costs.					
Feasibility		All measures are currently ongoing and resourced					
Congestion		No impact on congestion					
Capital costs		No capital costs					
Revenue costs	ff	Ongoing CYC staffing resources only					
		ongoing or o starting resources only					
Local air quality		Control of domestic and industrial emissions helps to protect and improve local					
		air quality					
Greenhouse gas		Control of domestic and industrial emissions helps to reduce and control					
emissions		greenhouse gas emissions					
Planning and		No issues arising					
development		_					
Socio-economic		Legislation applies to everyone irrespective of socio-economic status. Large					
Communities		Intes can arise it offences take place.					
Public nercention		Most people are generally supportive and comply with controls on industrial					
		and domestic emissions					
Other benefits		Control of smoke can help to avoid occurrence of smoke nuisance and odours					
		and	dentify occurrences of	fillegal waste disposal			