

Air Quality Plan for the achievement of EU air quality limit value for nitrogen dioxide (NO₂) in Yorkshire and Humberside (UK0034)

December 2015









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1 Introduction

1.1 This document

This document is the Yorkshire and Humberside non-agglomeration zone (UK0034) updated air quality plan for the achievement of the EU air quality limit values for nitrogen dioxide (NO₂). This is an update to the air quality plan published in September 2011 (http://uk-air.defra.gov.uk/library/no2ten/).

This plan presents the following information:

- General information regarding the Yorkshire and Humberside non-agglomeration zone
- Details of the NO₂ exceedance situation within the Yorkshire and Humberside non-agglomeration zone
- Details of local air quality measures that have been implemented, will be implemented or are being considered for implementation in this non-agglomeration zone

This air quality plan for the Yorkshire and Humberside non-agglomeration zone should be read in conjunction with the separate UK overview document and the list of UK and national measures. The UK overview document sets out, amongst other things, the authorities responsible for delivering air quality improvements and the list of UK and national measures that are applied in some or all UK zones. The measures presented in this zone plan, the accompanying UK overview document and the list of UK and national measures show how the UK will ensure that compliance with the NO₂ limit values is achieved in the shortest possible time.

This plan should also be read in conjunction with the supporting UK Technical Report which presents information on assessment methods, input data and emissions inventories used in the analysis presented in this plan.

1.2 Context

Two NO_2 limit values for the protection of human health have been set in the Air Quality Directive (2008/50/EC). These are:

- The annual mean limit value; an annual mean concentration of no more than 40 $\mu \mathrm{gm}^{ ext{-3}}$
- The hourly limit value: no more than 18 exceedances of 200 $\mu \mathrm{gm}^{\text{-3}}$ in a calendar year

The Air Quality Directive stipulates that compliance with the NO₂ limit values will be achieved by 01/01/2010.

1.3 Zone status

The assessment undertaken for the Yorkshire and Humberside non-agglomeration zone indicates that the annual limit value was exceeded in 2013 but is likely to be achieved before 2020 through the introduction of measures included in the baseline.

1.4 Plan structure

General administrative information regarding this non-agglomeration zone is presented in section 2.

Section 3 then presents the overall picture with respect to NO₂ levels in this non-agglomeration zone for the 2013 reference year of this air quality plan. This includes a declaration of exceedance situations within the non-agglomeration zone and presentation of a detailed source apportionment for each exceedance situation.

An overview of the measures already taken and to be taken within the non-agglomeration zone both before and after 2013 is given in section 4.

Baseline modelled projections for 2020, 2025 and 2030 for each exceedance situation are presented in section 5. The baseline projections presented here include, where possible, the impact of measures that have already been taken and measures for which the relevant authority has made a firm commitment to implement. However, it has not been possible to quantify the impact of all the measures. This section therefore also explains which measures have been quantified, and hence included in the model projections, and which measures have not been quantified.

General Information About the Zone

Administrative information

Zone name: Yorkshire and Humberside

Zone code: UK0034

Type of zone: non-agglomeration zone

Reference year: 2013

Extent of zone: Figure 1 shows the area covered by the Yorkshire and Humberside non-agglomeration zone. Local Authorities within the zone: Figure 2 shows the location of Local Authorities within the non-agglomeration zone. A list of these Local Authorities is also given below. The numbers in the list correspond to the numbers Barnsley Metropolitan Borough Council
 Calderdale Metropolitan Borough Council
 City of Bradford
 City of York Council
 Craven District Council
 Doncaster Metropolitan Portal in Figure 2.

- 7. East Riding of Yorkshire
- 8. Hambleton District Council
- 9. Harrogate Borough Council
- 10. Kingston-upon-Hull City Council
- 11. Kirklees Metropolitan Council
- 12. Leeds City Council
- 13. North East Lincolnshire Council
- 14. North Lincolnshire Council
- 15. Richmondshire District Council
- 16. Rotherham Metropolitan Borough Council
- 17. Ryedale District Council
- 18. Scarborough Borough Council
- 19. Selby District Council
- 20. Sheffield City Council
- 21. Wakefield Metropolitan District Council

(Note: Local Authority boundaries do not necessarily coincide with zone boundaries. Hence Local Authorities may be listed within more than one zone plan.)

Figure 1: Map showing the extent of the Yorkshire and Humberside non-agglomeration zone (UK0034).

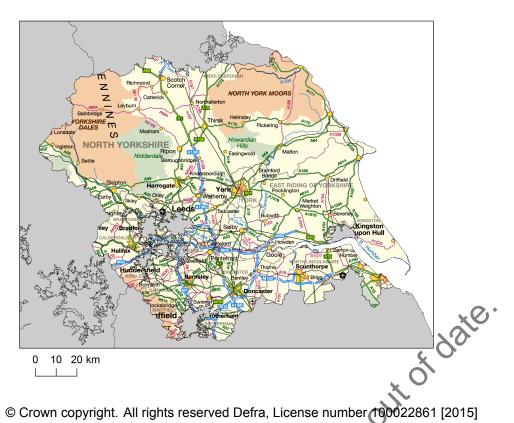
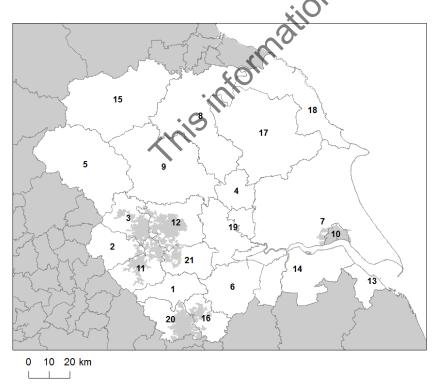


Figure 2: Map showing Local Authorities within the Yorkshire and Humberside non-agglomeration zone (UK0034).



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2.2 Assessment details

Measurements

NO₂ measurements in this zone were available in 2013 from the following national network monitoring stations (NO₂ data capture for each station in 2013 shown in brackets):

- 1. Barnsley Gawber GB0681A (98%)
- 2. High Muffles GB0014R (96%)
- 3. Scunthorpe Town GB0841A (98%)
- 4. York Fishergate GB0919A (98%)

Full details of monitoring stations within the Yorkshire and Humberside non-agglomeration zone are available from http://uk-air.defra.gov.uk/networks/network-info?view=aurn.

Modelling

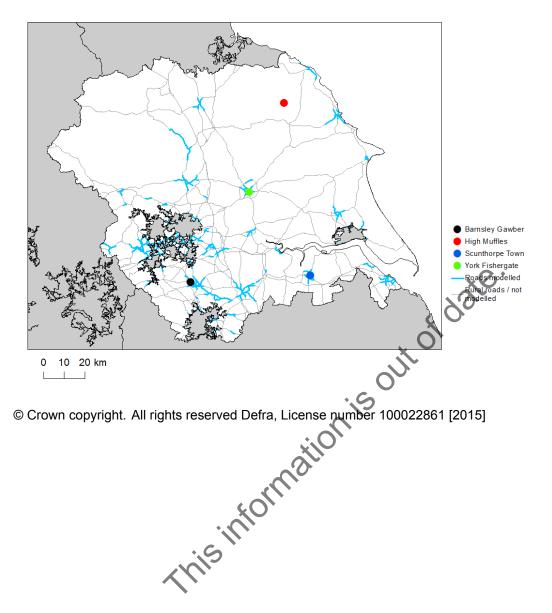
Modelling for the 2013 reference year has been carried out for the whole of the UK. This modelling covers the following extent within this zone:

- Total background area within zone (approx): 15,019 km²
- Total population within zone (approx): 3,120,522 people
- Total road length where an assessment of NO₂ concentrations has been made: 587 km in 2013 (and similar lengths in previous years)

Zone maps

Figure 3 presents the location of the NO_2 monitoring stations within this zone for 2013 and the roads for which NO_2 concentrations have been modelled. NO_2 concentrations at background locations have been modelled across the entire zone at a 1 km x 1 km resolution.

Figure 3: Map showing the location of the NO₂ monitoring stations with valid data in 2013 and roads where concentrations have been modelled within the Yorkshire and Humberside (UK0034) non-agglomeration zone.



2.3 Reporting under European Directives

From 2001 to 2012 the UK has reported annually on air quality concentrations using a standard Excel questionnaire (Decision 2004/461/EC). These questionnaires are available online from http://cdr.eionet.europa.eu/gb/eu/annualair. Since 2013 reporting has been via an e-reporting system (Decision 2011/850/EU) http://cdr.eionet.europa.eu/gb/eu/.

In addition, the UK has reported on air quality plans and programmes (Decision 2004/224/EC) since 2003. Historic plans and programmes are available on http://cdr.eionet.europa.eu/gb/eu/aqpp.

3 Overall Picture for 2013 Reference Year

3.1 Introduction

There are two limit values for the protection of health for NO₂. These are:

- The annual limit value (annual mean concentration of no more than 40 $\mu {
 m gm}^{-3}$)
- The hourly limit value (no more than 18 hourly exceedances of 200 μ gm⁻³ in a calendar year)

Within the Yorkshire and Humberside non-agglomeration zone the annual limit value was exceeded in 2013. Hence, one exceedance situation for this zone has been defined, NO₂_UK0034_Annual_1, which covers exceedances of the annual limit value. This exceedance situation is described below.

3.2 Reference year: NO₂_UK0634_Annual_1

The NO₂_UK0034_Annual_1 exceedance situation covers all exceedances of the annual mean limit value in the Yorkshire and Humberside non-agglomeration zone in 2013.

Compliance with the annual limit value in this exceedance situation has been assessed using a combination of air quality measurements and modelling. Table 1 presents measured annual concentrations at national network stations in this exceedance situation since the 1st Daughter Directive (1999/30/EC) came into force in 2001. This shows that there were no measured exceedances of the annual limit value in this zone in 2013. Table 2 summarises modelled annual mean NO_2 concentrations in this exceedance situation for the same time period. This table shows that, in 2013, 49.8 km of road length was modelled to exceed the annual limit value. There were no modelled background exceedances of the annual limit value. Maps showing the modelled annual mean NO_2 concentrations for 2013 at background and at roadside locations are presented in Figures 4 and 5 respectively. All modelled exceedances of the annual limit value are coloured orange or red in the maps.

The maximum measured concentration in the zone varies due to changes in emissions and varying meteorology in different years. However, the models are also updated each year to take into account the most up-to-date science, so the modelled results for different years may not be directly comparable.

The modelling carried out for this exceedance situation has also been used to determine the annual mean NOx source apportionment for all modelled locations. Emissions to air are regulated in terms of oxides of nitrogen (NOx), which is the term used to describe the sum of nitrogen dioxide (NO₂) and nitric oxide (NO). Ambient NO₂ concentrations include contributions from both directly emitted primary NO₂ and secondary NO₂ formed in the atmosphere by the oxidation of NO. As such, it is not possible to calculate an unambiguous source apportionment specifically for NO₂ concentrations; therefore the source apportionment in this plan is presented for NOx, rather than for NO₂ (for further details please see the UK Technical Report). Table 3 summarises the

modelled NOx source apportionment for the section of road with the highest modelled NO_2 concentration in this exceedance situation in 2013. This is important information because it shows which sources need to be tackled at the location with the largest compliance gap in the exceedance situation.

Figure B.1 in Annex B presents the annual mean NOx source apportionment for each section of road within the $NO_2_UK0034_Annual_1$ exceedance situation (i.e. the source apportionment for all exceeding roads only) in 2013. In this figure roads have been grouped into motorways, primary roads (major roads managed by local authorities) and trunk roads (major roads managed by highways authorities).

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Table 1: Measured annual mean NO $_2$ concentrations at national network stations in NO $_2$ UK0034_Annual_1 for 2001 onwards, μgm^{-3} (a). Data capture shown in brackets.

Site name (EOI code)	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Barnsley Gawber (GB0681A)	30 (83)	25 (86)	25 (97)	22 (96)	20 (81)	19 (77)	18 (91)	19 (91)	19 (93)	25 (94)	20 (94)	21 (94)	21 (98)
High Muffles (GB0014R)			14 (18)	9 (70)	8 (89)	8 (88)	6 (98)	7 (98)	7 (56)	6 (92)	7 (95)	6 (97)	5 (96)
Scunthorpe Town (GB0841A)								19 (96)	18 (98)	20 (97)	20 (95)	20 (91)	27 (98)
York Fishergate (GB0919A)							9	33 (100)	37 (99)	49 (94)	32 (95)	31 (99)	27 (98)

	-3						'X'O.					
Annual Mean Limit Value = 40 μ g	n°						10,					
2: Annual mean NO₂ mode	I results i	in NO ₂ _U	K0034_A	nnual_1	for 2001	onwards	j.					
						\sim						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Road length exceeding (km)	300.3	176.2	404.6	244.9	318.4	237.4	253.8	227.8	69.1	108.1	49.8	63.9
			40	0 .	0	0	0	0	0	14	2	0
Background exceeding (km ²)	62	0	18		, ' 0	U	U	•				

(a) Annual Mean Limit Value = 40 $\mu \mathrm{gm}^{-3}$

Table 3: Modelled annual mean NOx source apportionment at the traffic count point with the highest modelled concentration in 2013 in NO2_UK0034_Annual_1 (μ gm⁻³) (traffic count point 36588 on the A630; OS grid (m): 440000, 386740).

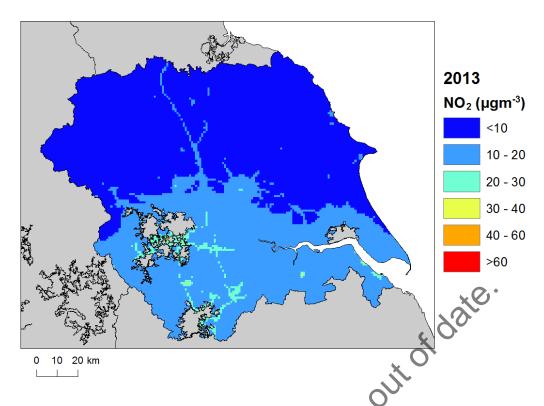
Spatial scale	Component	Concentration at highest road link (a)
Pegianal haskground courses NOv (i.e. contributions from	Total	14.0
Regional background sources NOx (i.e. contributions from	From within the UK	8.9
distant sources of > 30 km from the receptor).	From transboundary sources (includes shipping and other EU	5.1
	member states)	
	Total	22.1
	From road traffic sources	12.4
	From industry (including heat and power generation)	4.3
	From agriculture	NA
Urban background sources NOx (i.e. sources	From commercial/residential sources	2.3
located within 0.3 - 30 km from the receptor).	From shipping	0.0
	From off road mobile machinery	2.0
	From natural sources	NA
	From transboundary sources	NA
	From other urban background sources	1.0
	Total	113.1
	From petrol cars	11.6
	From diesel cars	41.3
	From HGV rigid (b)	18.5
Local sources NOx (i.e. contributions from sources	From HGV articulated (b)	11.0
< 0.3 km from the receptor).	From buses	8.0
	From petrol LGVs (c)	0.3
•	From diesel LGVs (c)	22.1
.6	From motorcycles	0.1
MIS	From London taxis	0.0
Total NOx (i.e. regional background + urban background + lo	cal components)	149.1
Total NO ₂ (i.e. regional background + urban background + lo	cal components)	57

⁽a) Components are listed with NOx concentration of NA when there is no source from this sector.

⁽b) HGV = heavy goods vehicle

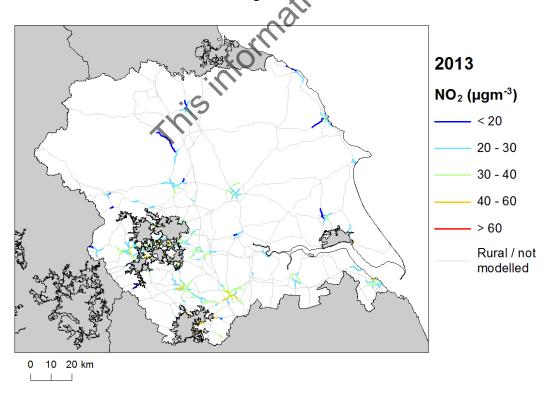
⁽c) LGV = light goods vehicle

Figure 4: Map of modelled background annual mean NO_2 concentrations 2013. Modelled exceedances of the annual limit value are shown in orange and red.



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Figure 5: Map of modelled roadside annual mean NO_2 concentrations 2013. Modelled exceedances of the annual limit value are shown in orange and red.



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4 Measures

4.1 Introduction

This section gives details of measures that address exceedances of the NO₂ limit values within Yorkshire and Humberside non-agglomeration zone. This includes both measures that have already been taken and measures for which there is a firm commitment that they will be taken.

Section 5 then explains the extent to which it has been possible to incorporate the impacts of these measures into the baseline modelling carried out for this assessment.

4.2 Source apportionment

It is important to understand which sources are responsible for causing the exceedance in order to most effectively tailor measures to address the NO_2 exceedance situation described in section 3 above. This can be achieved by considering the source apportionment for the exceedance situation, also presented in section 3. A summary of what the source apportionment shows and the implications for which measures would therefore be appropriate is given here.

Local road traffic was the dominant source in this exceedance location in the reference year. The largest contribution was from cars at the location of maximum exceedance with a contribution of 52.9 μgm^{-3} of NOx out of a total of 149.1 μgm^{-3} of NOx. Articulated HGVs and cars were important sources on the motorway roads with the highest concentrations in this exceedance situation. Cars, LGVs, articulated HGVs, rigid HGVs and on some roads buses were important sources on the primary roads with the highest concentrations. Cars, articulated HGVs, rigid HGVs and LGVs were important sources on the trunk roads with the highest concentrations. For all road links concentrations of NOx from diesel cars were approximately four times greater than NOx emissions from petrol cars. NOx concentrations from petrol LGVs are a small component of total NOx concentrations and less than 2% of total NOx from LGVs.

This indicates that appropriate measures should impact on local road traffic sources in this zone. Other measures to address the urban background sources may also be beneficial.

4.3 Measures

Measures potentially affecting NO_2 in this non-agglomeration zone have been taken and/or are planned at a range of administrative levels. These are:

- European Union
- National (i.e. England, Scotland, Wales, Northern Ireland or whole UK)
- Local (i.e. UK Local Authorities)

Details of European Union measures (e.g. Euro Standards, Fuel Quality Directives, Integrated Pollution Prevention and Control) can be found on the European Commission's website (http://ec.europa.eu/environment/air/index_en.htm). Details of national measures are given in the UK overview document and the list of UK and national measures.

Relevant Local Authority measures within this exceedance situation are listed in Table C.1 (see Annex C). Table C.1 lists measures which a local authority has carried out or is in the process of carrying out, plus additional

measures which the local authority is committed to carrying out or is investigating with the expectation of carrying out in the future.

The Yorkshire and Humber Plan, Regional Spatial Strategy to 2026, indicates the intention to improve air quality by improving the environment including air quality, through improved public transport, reduced congestion and encouragement of e.g. cycling and walking.

There are common themes throughout the zone on the type of measures to improve air quality. The main themes in the zone focus on reducing reliance on using cars and transferring those journeys into modal shifts to increased use of public transport (including future implementation of the Quality Bus Partnership) and promoting cycling and walking, including providing more routes. Together, these and other measures such as anti-idling of vehicles, a Lorry Parking Strategy and a new road link are intended to reduce emissions and levels of poor air quality.

Greater use is being made of park and ride schemes, car club and car share schemes. Low Emission Strategies are also in place in some authorities while others are looking into the feasibility of such strategies that will promote and facilitate the use of electric vehicles including the provision of recharging points.

To help reduce emissions further, there are some retrofit schemes that have been implemented on buses which 4.4 Measures timescales
 Timescales for national measures are given in the UK overview document and list of UK and national measures. will also improve vehicle efficiency.

Local Authorities report on progress with the implementation of their action plans annually and review action plan measures regularly. Information on local measures was collected in February/March 2015. Hence, any Local Authority action plans and measures adopted by Local Authorities after this time have not been included in this air quality plan, unless additional information was provided during the consultation process.

The reference year for this air quality plan is 2013. Where measures started and finished before 2013, then the improvement in air quality resulting from these measures will have already taken place before the reference year and the impact of these measures will have been included in the assessment where the measure has had an impact on the statistics used to compile the emission inventory. Many measures started before the reference year and will continue to have a beneficial impact on air quality well beyond the reference year. Measures with a start date before 2013 and an end date after 2013 may have an impact on concentrations in the reference year and a further impact in subsequent years. Where the Status column in Annex C is 'Implementation', this shows that this measure is already underway or that there is a commitment for this measure to go ahead. Where the Status is 'Planning', 'Preparation' or 'Other' the level of commitment is less clear and it is possible some of these measures may not go ahead.

Baseline Model Projections

Overview of model projections

Model projections for 2020, 2025 and 2030, starting from the 2013 reference year described in section 3, have been calculated in order to determine when compliance with the NO₂ limit values is likely to be achieved on the basis of EU, regional and local measures currently planned. Details of the methods used for the baseline emissions and projections modelling are provided in the UK technical report.

For national measures, it has not been possible to quantify the impact of all measures on emissions and ambient concentrations. The impact for all quantifiable measures has been included in the baseline projections.

The impacts of the individual Local Authority measures have not been explicitly included in the baseline model projections. However, measures may have been included implicitly if they have influenced the traffic counts for 2012 (used as a basis for the compilation of the emission inventory) or in the traffic activity projections to 2020 and beyond (used to calculate the emissions projections). It should be recognised that these measures will have a beneficial impact on air quality, even if it has not been possible to quantify this impact here.

5.2 Baseline projections: NO₂_UK0034_Annual_1

Table 4 presents summary results for the baseline model projections for 2020, 2025 and 2030 for the NO $_2$ _UK0034_Annual_1 exceedance situation. This shows that the maximum modelled annual mean NO $_2$ concentration predicted for 2020 in this exceedance situation is 37 μ gm 3 . Hence, the model results suggest that compliance with the NO $_2$ annual limit value is likely to be achieved before 2020 under baseline conditions in this exceedance situation.

Figures 6 and 7 show maps of projected annual mean NO_2 concentrations in 2020, 2025 and 2030 for background and roadside locations respectively. Maps for 2013 are also presented here for reference.

It should be noted that the baseline projections presented here include the impacts of some measures, where they can be quantified, that have already been or will be implemented.

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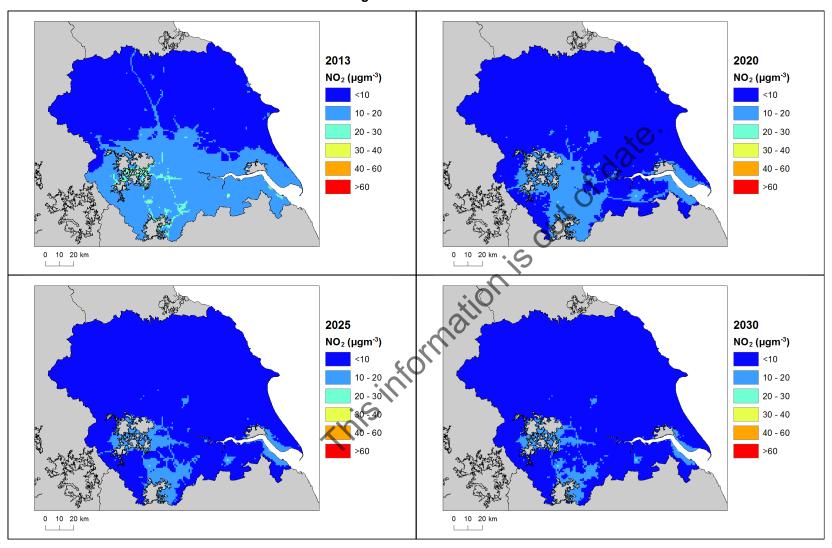
Table 4: Annual mean NO_2 model results in NO_2 _UK0034_Annual_1.

	2013	2020	2025	2030
Road length exceeding (km)	49.8	0.0	0.0	0.0
Background exceeding (km ²)	0	0	0	0
Maximum modelled concentration NO_2 (μgm^{-3}) (a)	57	37	30	29
Corresponding modelled concentration NOx $(\mu {\rm gm}^{\text{-}3})$ (b)	149	85	65	66

⁽a) Annual Mean Limit Value = 40 $\mu \mathrm{gm}^{\text{-3}}$

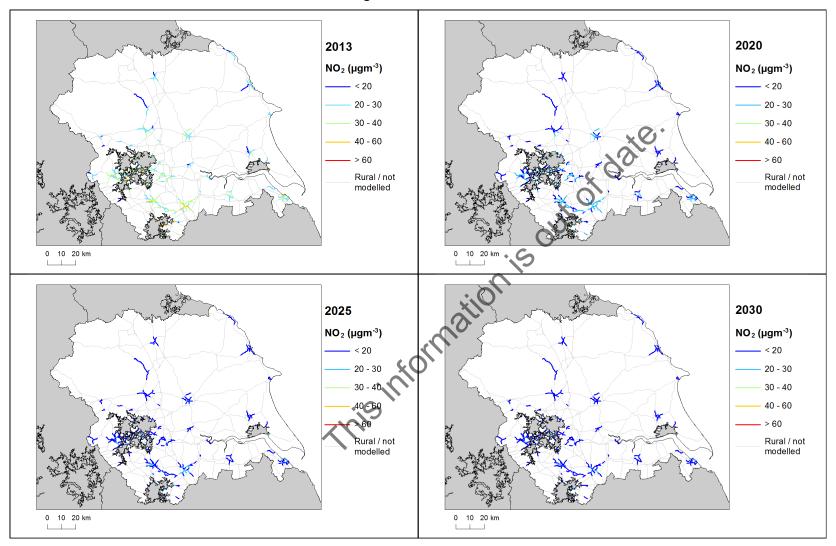
⁽b) NOx is recorded here for comparison with the NOx source apportionment graphs for 2013 presented in Annex B of this plan. Limit values for EU directive purposes are based on NO₂.

Figure 6: Background baseline projections of annual mean NO₂ concentrations in 2020, 2025 and 2030. 2013 is also included here for reference. Modelled exceedances of the annual limit value are shown in orange and red.



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Figure 7: Roadside baseline projections of annual mean NO₂ concentrations in 2020, 2025 and 2030. 2013 is also included here for reference. Modelled exceedances of the annual limit value are shown in orange and red.



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Annexes

A References

Air Quality Expert Group (AQEG, 2004). Nitrogen Dioxide in the United Kingdom. http://uk-air.defra.gov.uk/library/aqeg/publications

Decision 2004/224/EC. Commission Decision of 20 February 2004 laying down arrangements for the submission of information on plans or programmes required under Council Directive 96/62/EC in relation to limit values for certain pollutants in ambient air. From the Official Journal of the European Union, 6.3.2004, En series, L68/27

Decision 2004/461/EC. Commission Decision of 29 April 2004 laying down a questionnaire to be used for annual reporting on ambient air quality assessment under Council Directives 96/62/EC and 1999/30/EC and under Directives 2000/69/EC and 2002/3/EC of the European Parliament and of the Council. From the Official Journal of the European Union, 30.4.2004, En series, L156/78

Decision 2011/850/EU Commission Implementing Decision of 12 December 2011 laying down rules for Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council as regards the reciprocal exchange of information and reporting on ambient air quality. From the Official Journal of the European Union, 17.12.2011,En series, L335/86

CDR Central Data Repository. http://cdr.eionet.europa.eu/

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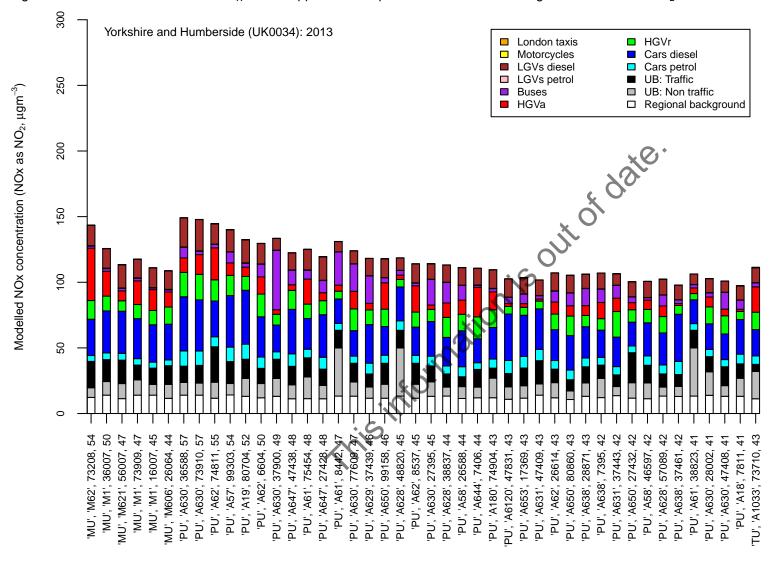
1st Daughter Directive 1999/30/EC. Council Directive 1999/30/EC, of 22 April 1999 relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air (The First Daughter Directive). From the Official Journal of the European Communities, 29.6.1999, En Series, L163/41.

UK overview document, List of UK and National Measures and the UK technical report are available at: http://www.gov.uk/defra.

B Source apportionment graphs

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Figure B.1: Annual mean roadside NO_x source apportionment plots for all roads exceeding the annual mean NO₂ limit value in 2013.



Road class (MU = motorway, PU = primary road, TU = trunk road), road number, census id 12 and modelled NO₂ concentration (μgm⁻³)

C Tables of measures

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Table C.1 Relevant Local Authority measures within Yorkshire and Humberside (UK0034)

Measure code	Description	Focus	Classification	Status	Other information
Barnsley Metropolitan Borough Council_1	Construction of Burton Road Quality Bus Corridor (AQMA No. 3)	Reduction in emissions in AQMA 3 due to removal of congestion hot spot out of AQMA 3	Traffic planning and management: Improvement of public transport	Evaluation	Start date: 2010 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: Reduction in emissions as detailed within Barnsley MBC FA 2011 (estimated reduction of 25-28%) Target emissions reduction: Reduction in emissions as detailed within Barnsley MBC FA 2011 (25-28%)
Barnsley Metropolitan Borough Council_2	Barnsley Statutory Quality Partnership Scheme (Bus Partnership) - SQPS	Reduction in emissions in AQMAs	Traffic planning and management: Other measure	Implementation	Start date: 2010 Expected end date: 2020 Spatial scale: Local Source affected: Transport Indicator: Bus patronage, and fleet age, Target emissions reduction: Our 2011 FA indicated a 0 to 1 microgram per cubic metre improvement in annual mean NO2 concentrations on arterial roads into Barnsley town centre.
Barnsley Metropolitan Borough Council_3	Barnsley Intelligent Transport System	Reduction in congestion on routes where introduced by optimisation of UTC signalisation using MOVA and SCOOT, especially in AQMAs 2A (Pogmoor cross roads) and 4 (Harborough Hill Gyratory, Harborough Hill Road)	Traffic planning and management: Other measure	Implementation	Start date: 2010 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: NO2 concentration data for AQMAs 2A and 4 are presented in appendix B Target emissions reduction: As the system is responsive to demand management requirements, it is considered difficult to prescribe a target annual emission reduction.
Barnsley Metropolitan Borough Council_4	Care4Air	Behavioural change (general public) due to Care4air campaign	Public information and Education: Internet	Implementation	Start date: 2005 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: None proposed Target emissions reduction: N/a

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Measure code	Description	Focus	Classification	Status	Other information
Barnsley Metropolitan Borough Council_5	Implementation of cycling and walking routes adjacent or in AQMAs	Reduction in emissions due to modal shift	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: Yet to be determined. Target emissions reduction: None determined.
Barnsley Metropolitan Borough Council_6	Barnsley MBC Travel Plans (general)	Reduction in emissions due to modal shift	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Yet to be determined. This may be dependent on Travel Plan uptake data being available Target emissions reduction: None determined
Barnsley Metropolitan Borough Council_7	ECO Stars HDV Recognition Scheme	Reduction in emissions due to adoption of best practice fuel management within South Yorkshire HDV fleet	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: National Source affected: Transport Indicator: Number of annual member / vehicle membership of the scheme, in line with the targets set in the ECO Stars business plan. A graph showing progress of recruitment against the target is reproduced in appendix F. The current target is an annual recruitment of 20 members and 400 vehicles. Target emissions reduction: Yet to be determined.
Barnsley Metropolitan Borough Council_8	Encourage uptake of lower emission vehicles and alternative fuels	Reduction in emissions in AQMAs	Public procurement: New vehicles, including low emission vehicles	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: National Source affected: Transport Indicator: Yet to be determined. Target emissions reduction: Yet to be determined.

Measure code	Description	Focus	Classification	Status	Other information
Barnsley Metropolitan Borough Council_9	Planning applications – air quality assessments	Control of emissions using planning regime	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: No suitable indicator can be determined Target emissions reduction: No suitable target annual emission reduction can be determined for this measure
Barnsley Metropolitan Borough Council_10	Dodworth by-pass	Reduction in NO2 concentrations in AQMA due to construction of by-pass to remove traffic (and subsequently emissions) from previous road network, away from residential receptors	Traffic planning and management: Encouragement of shift of transport modes	Other	Start date: 2005 Expected end date: 2007 Spatial scale: Local Source affected: Transport Indicator: Revocation of Barnsley 2B AQMA, declared due to exceedance of the annual average objective for NO2 Target emissions reduction: No suitable target annual emission reduction was determined for this measure, however there was sufficient subsequent reduction in the annual average objective for NO2 at receptors to warrant revocation of this AQMA in 2012
Bradford City Council_1	Lobby for additional regional/national measures	Inform relevant agencies of scale of problem and need for lower traffic flow and LEV's	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: No new AQMAs Target emissions reduction: 25-40% reduction in NO2 by 2015 in the AQMAs
Bradford City Council_2	Adoption of Corporate Air Quality Strategy (AQS)	Adoption of Bradford AQS to address current and future Air Quality Issues	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: No new AQMAs Target emissions reduction: No new AQMAs. Improvements in air quality across the district

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Measure code	Description	Focus	Classification	Status	Other information
Bradford City Council_3	Additional use of the Planning system for LAQM	Development and implementation of LES planning guidance via LES	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Commercial and residential sources Indicator: S106 agreements Target emissions reduction: S106 contributions in a budget for LAQM. Formulae for determining contributions
Bradford City Council_4	Low Emission strategy for procuring council fleet	Within AQS / LES	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Emission standards adopted, number of compliant vehicles and activity monitored Target emissions reduction: N/a
Bradford City Council_5	Integrate the AQAP into the WYLTP3	Development of West Yorkshire Low Emission Strategy (WYLES)	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2015 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: - Target emissions reduction: -
Bradford City Council_6	Freight Strategy	Emission Strategy (WYLES) N/A	Traffic planning and management: Freight transport measure	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Compliance monitoring Target emissions reduction: Road schemes identified, emissions standards adopted and compliance monitored
Bradford City Council_7	Provide environmental and travel information	School travel Public transport	Public information and Education: Internet	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Quantitative surveys Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Bradford City Council_8	Travel Planning	Reduction in car useage	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2009 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Surveys to confirm overall car journeys reduced by 10% Target emissions reduction: Reduce car useage (personal, institutional and commercial sectors) by 10%
Bradford City Council_9	Living Street / Connect 2	To link Bradford City Centre, West Bowling and beyond with a high quality walking and cycling route.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_10	Great Northern Trail	To link villages in the West of the district with a high quality walking and cycling route	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_11	Bikeability	To promote safe cycling amongst school children.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_12	Bradfordcarshare.com	school children. Website to encourage car sharing	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_13	High occupancy vehicle lanes	To encourage car sharing	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_14	Bradford District Bus Performance Improvement Partnership	To facilitate improvements to bus services in the District and develop bus action plans	Public procurement: Cleaner vehicle transport services	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Bradford City Council_15	YorCard SMART bus ticketing	To make public transport more attractive and efficient by allowing seamless single ticket travel within the West Yorkshire region via different service providers. Some destinations beyond West Yorkshire also to be included.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_16	Variable Message Signage (VMS)	To provide better real time travel information.	Public information and Education: Other mechanisms	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_17	Planned new railway stations at Apperley Bridge and Low Moor. Rail station improvements at Forster Sq, Keighley, Ben Rhydding, Burley in Wharfedale and Frizinghall.	To improve public transport provision	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_18	EV Charging Provision Jacob's Well, Bradford MDC, Council offices twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_19	EV Charging Provision Ian Clough Hall, Baildon, Council owned community hall twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_20	EV Charging Provision Scott St council car park , Keighley twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_21	EV Charging Provision Airedale Hospital twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Bradford City Council_22	EV Charging Provision Saltaire BDCT twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_23	EV Charging Provision Lynfield Mount BDCT twin 7kW 32A	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_24	EV Charging Provision Airedale Centre Mental Health BDCT twin 7kW 32A	To promote and facilitate EV use	Public procurement. Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_25	EV Charging Provision Bradford University	To promote and facilitate EV use	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Bradford City Council_26	Successful Clean Vehicle Technology Fund bid	To reduce bus emissions	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: NOx reduction 118 tonnes Target emissions reduction: Reductions in Manningham Lane AQMA <40ug/m3
Bradford City Council_27	Partnership with Bradford Institute of Health research (BIHR) with associated funding (50,000)	To research increases in active travel and improvements for air quality and health	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2017 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Research project Target emissions reduction: Increases in walking and cycling in school

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Measure code	Description	Focus	Classification	Status	Other information
Bradford City Council_28	Bradford LEZ feasibility Study	To understand LEZ interventions in Bradford	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2012 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Raising awareness Target emissions reduction: Revocation of most AQMAs
Bradford City Council_29	Gas trial and feasibility study	To trial gas technology with a view to fleet transformation	Other measure: Other measure	Implementation	Start date: 2013 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Raising awareness of use of gas as a vehicle fuel Target emissions reduction: N/A
Bradford City Council_30	Lead Authority for the Academic Health Science Network	To promote NHS partnership and work with health colleagues to improve air quality	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole Agglomeration Source affected: Transport Indicator: Improvements in air quality quantified using NHS improvement targets Target emissions reduction: N/A
Calderdale Metropolitan Borough Council_AQAP1	Achieve better understanding of local air quality	Improved measurement and monitoring of air quality and traffic flows.	Traffic planning and management: Other measure	Implementation	Start date: 2009 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) Traffic flow and travel demand through and within the AQMAs. Traffic queue lengths in AQMAs. (2) Monitoring and modelling of traffic flows and air quality. Traffic queue lengths at junctions. Journey times through junctions. (3) Emissions characteristics of different vehicle types and under different driving conditions. Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Calderdale Metropolitan Borough Council_AQAP2	Awareness campaign	Stakeholder engagement and active participation in a joint search for solutions.	Public information and Education: Internet	Implementation	Start date: 2009 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) Investigate feasibility of Local Air Quality Partnership. (2) Disseminate air quality information via Council website. Reports published on website. (3) Investigate establishment of Freight Quality Partnership. Target emissions reduction: N/A
Calderdale Metropolitan Borough Council_AQAP3	Traffic and Highways management	Changes to the highway network. Travel demand management. Travel choice.	Traffic planning and management: Other measure	Implementation	Start date: 2009 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) High occupancy routes. Promote high occupancy vehicles. Modal split surveys. Improve traffic flow on AQMA corridors. (2) Promote cycling and walking. (3) Public transport patronage. Promotion of company discounted MetroCards + First Bus and Northern Rail Season tickets. Increase provision of Metro poll cards for Council travel. (4) Car clubs. (5) Car parking strategy. (6) 20mph areas. Target emissions reduction: N/A
Calderdale Metropolitan Borough Council_AQAP4	Promote LEV technologies	Vehicle technology - encourage uptake and provide infrastructure	Public procurement: Other measure	Implementation	Start date: 2009 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) Where possible and practical procure ULEVs within fleet profile. Pilot use of EV to evaluate suitability as pool car. (2) Introduce Council staff salary sacrifice car scheme for LEVs. (3) Promote EV recharge point installation. Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Calderdale Metropolitan Borough Council_AQAP5	Planning policy	Promote sustainable transport in new development, both to restrict / prevent growth in air pollution and to restrict relevant exposure to poor air quality	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) Require travel plans and transport assessments in association with major new developments. (2) School travel plan. (3) Ensure full account taken of air quality in connection with new developments. Target emissions reduction: N/A
Calderdale Metropolitan Borough Council_AQAP6	Compatibility with other programmes	Improve compatibility and cross-benefits with other strategic plans. Development of employee car salary sacrifice scheme. Promotion of community renewal energy schemes. Schemes to minimise food miles by supporting local food production. West Yorkshire + Transport Plan - Halifax Master Plan to remove through traffic, expand pedestrian realm and new bus facilities.	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2024 Spatial scale: Whole town or city Source affected: Transport Indicator: (1) Compatibility with West Yorkshire Local Transport Plan and development of WYLES. (2) Increase in uptake of locally grown food. Target emissions reduction: N/A
Doncaster Metropolitan Borough Council_1	Undertake feasibility study into the introduction of Low Emission Strategies (LES) within the AQMAs and in other areas of the Borough where vehicle emissions have a major impact on air quality.	Vehicle Emission Reduction	Public procurement: Other measure	Preparation	Start date: 2015 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.06a Target emissions reduction: To be produced once planning phase complete.
Doncaster Metropolitan Borough Council_2	The council will continue to ensure that its own vehicle fleet is progressively greened by carrying out initiatives as detailed in original action plan.	Vehicle Emission Reduction	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2009 Expected end date: 2019 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.06a Target emissions reduction: Start 2010 to start of 2011 tonnes per year = NOx – 0.7
Doncaster Metropolitan Borough Council_3	Implement specific policies within the Council's Commuter Plan.	Traffic Reduction and Management	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2012 Expected end date: 2020 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a

Measure code	Description	Focus	Classification	Status	Other information
Doncaster Metropolitan Borough Council_4	Expand the existing network of bus only lanes, targeting the AQMAs as a first priority.	Traffic Reduction and Management	Traffic planning and management: Improvement of public transport	Other	Start date: 2010 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: Awaiting information to implement proxy indicator.
Doncaster Metropolitan Borough Council_5	Implement 2 park and ride sites by 2005 and complete a feasibility study into other sites, targeting as a priority those routes that traverse AQMAs.	Traffic Reduction and Management	Traffic planning and management: Improvement of public transport	Other	Start date: 2004 Expected end date: 2012 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: N/A
Doncaster Metropolitan Borough Council_6	Implement the A638 Quality Bus Corridor and investigate the feasibility of expanding the Quality Bus Corridor scheme to other major routes that traverse the AQMAs, beginning with the A630 Balby Road Corridor.	Public Transport Public Transport	Traffic planning and management: Improvement of public transport	Other	Start date: 2007 Expected end date: 2009 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: The trends shown in figures 2.4 and 2.5 in this report demonstrate that there is a slight downward to stable trend cover sites where the bus corridor has been implemented despite increasing primary NO2 concentrations
Doncaster Metropolitan Borough Council_7	Improve the attractiveness of public transport use by a process of continual upgrading of passenger pick up points and vehicles.	Public Transport	Traffic planning and management: Improvement of public transport	Other	Start date: 2004 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_10	The council will continue to develop the Safe Routes to School Programme, the object of which is to assess and where applicable improve the safety of the routes taken by children to and from school in order to encourage more walking and cycling and reduce the number	Promotion and Publicity	Traffic planning and management: Encouragement of shift of transport modes	Other	Start date: 2004 Expected end date: 2005 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a

of journeys made by car.

Measure code	Description	Focus	Classification	Status	Other information
Doncaster Metropolitan Borough Council_14	Promote the use of parking polices, alongside other planning and transport measures, to promote sustainable transport choices and reduce the reliance on the car.	Promotion and Publicity	Traffic planning and management: Management of parking places	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_15	Implement the findings of the countywide study into the feasibility of producing a HGV strategy.	Promotion and Publicity	Traffic planning and management: Freight transport measure	Preparation	Start date: 2015 Expected end date: 2025 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.06a Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_17	Ensure that new development shall, where appropriate, contribute to the provision of transport infrastructure for walking, cycling, public transport and highway improvements, secured through Section 106 agreements.	Traffic Management and Reduction.	Other measure: Other measure	Other	Start date: 2005 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_18	Expand the existing network of cycle lanes within the Borough, with particular emphasis on the AQMAs.	Traffic Management and Reduction.	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Implementation	Start date: 2010 Expected end date: 2025 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.01a Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_19	19 (New measure) The ECOstars scheme was devised under the LTP. It is a free to sign up to scheme for operators of large vehicle fleets. The scheme awards a rating for the environmental standards of the fleet and provides a roadmap for improvements.	Vehicle Emission Reduction.	Other measure: Other measure	Implementation	Start date: 2009 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: 2.06a Target emissions reduction: Varies with case. Report produced by ttr on emissions, reductions expected in 2 cases.
Doncaster Metropolitan Borough Council_20	The council will support and promote the new transport interchange in order to ensure a fully integrated road/rail public transportation system is provided for the residents of and visitors to the Borough.	Public Transport	Traffic planning and management: Improvement of public transport	Other	Start date: 2005 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: See measures above

Measure code	Description	Focus	Classification	Status	Other information
Doncaster Metropolitan Borough Council_21	The council will expand the Borough's successful "Quality Streets" initiative to extend the amount of pedestrianised streets, both within the town centre and the retail centres of the satellite towns.	Traffic Management and Reduction.	Traffic planning and management: Encouragement of shift of transport modes	Other	Start date: 2005 Expected end date: 2005 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_22	The council will continue to use all its powers to control industrial & commercial emissions to the atmosphere by liaison with the Environment Agency in respect of Part A processes and the institution of risk based process inspection in respect of Part B Processes.	Industrial emissions	Permit systems and economic instruments: Other measure	Implementation	Start date: 2001 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Industry including heat and power production Indicator: N/A Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_23	Information provision and dissemination. Various methods employed, several measures within action plan combined into one for purpose of this report included school visits, leaflet production, care4air campaign.	Publicity and Promotion	Public information and Education: Other mechanisms	Implementation	Start date: 2005 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_24	Introduce a council car sharing scheme	Reducing Vehicle Use	Other measure: Other measure	Other	Start date: 2002 Expected end date: 2003 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_25	The council will review its car allowance and car loan schemes in order to identify and implement reforms which encourage the use of the cleanest and most fuel efficient vehicles and minimise business mileage inline with Inland Revenue payment guidelines.	Vehicle emission reduction	Other measure: Other measure	Other	Start date: 2003 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/a
Doncaster Metropolitan Borough Council_26	The council will continue its ongoing commitment to producing School Travel Plans by engaging schools in the process of researching all aspects of travel to and from school, linking directly into the Safer Routes to School Programme. One aspect of this commitment is the implementation of a Walking Bus network.	Publicity and Promotion	Traffic planning and management: Encouragement of shift of transport modes	Other	Start date: 2004 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/a

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Measure code	Description	Focus	Classification	Status	Other information
Doncaster Metropolitan Borough Council_27	Ensure that all transport termini and bus stops are provided with prominent signs requiring drivers to switch off their engine when stationary.	Public Transport	Traffic planning and management: Other measure	Other	Start date: 2003 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/a
East Riding of Yorkshire_1	Beverley Integrated Transport Plan	A package of measures designed to reduce the amount of traffic in the historic town centre and which includes the construction of a new, 2.7km southern relief road.	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: Reduction in overall traffic volumes in the town centre. Target emissions reduction: No AQMA declared
East Riding of Yorkshire_2	Bridlington Integrated Transport Plan (Phase 1)	Scheme comprising a number of improvements to the town centre and surrounding road network, including the provision of a new, bus-based park and ride, to reduce the effect of the seasonal surge in traffic that had habitually resulted in congestion within the town centre.	Traffic planning and management: Improvement of public transport	Evaluation	Start date: 2008 Expected end date: 2010 Spatial scale: Whole town or city Source affected: Transport Indicator: Improved access and movement within town centre Target emissions reduction: No AQMA declared
East Riding of Yorkshire_3	Bridlington Integrated Transport Plan (Phase 2)	Scheme comprising a number of improvements to the town centre road network providing for improved access and movement within the town centre	Traffic planning and management: Improvement of public transport	Planning	Start date: 2015 Expected end date: 2021 Spatial scale: Whole town or city Source affected: Transport Indicator: Improved access and movement within town centre Target emissions reduction: No AQMA declared
East Riding of Yorkshire_4	A1079 corridor improvement scheme	Strategic highway improvement scheme	Traffic planning and management: Other measure	Planning	Start date: 2012 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Congestion management and improved journey times. Target emissions reduction: N/A

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Measure code	Description	Focus	Classification	Status	Other information
East Riding of Yorkshire_5	A164 corridor improvement scheme	Major road improvement scheme to reduce congestion and improve journey times along the Humber Bridge to Beverley route.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2011 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: Elimination of pinch-points and improved journey times, particularly during morning and evening peak travel times. Target emissions reduction: No AQMA declared
East Riding of Yorkshire_6	Goole Transport Strategy	Local Sustainable Transport Fund (LSTF) project to create travel plans for businesses, schools, Goole Hospital, Goole Leisure Centre and Goole Railway Station, as well as Personal Travel Plans for up to 9,000 households in Goole. The project also includes significant enhancement of the local cycle network and improved public transport provision.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2012 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: Reduction in high number of short car journeys by Goole residents travelling to local facilities and amenities. Target emissions reduction: No AQMA declared
East Riding of Yorkshire_7	Construction of dedicated off-road cycle route along the A1035 from Tickton to White Cross Roundabout	Scheme provides a continuous and safe off-road cycle lane between Hull, Woodmansey, Dunswell, Beverley, Tickton and Leven, and complements other infrastructure developments included in the Beverley Integrated Transport Plan.	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Increased cycle use along the route Target emissions reduction: No AQMA declared
East Riding of Yorkshire_8	Preparation of individual transport strategies for each of the 14 main settlements in the East Riding.	The Council will implement a range of schemes in the 14 main settlements to encourage local people to make more short, local trips on foot or by bike, as opposed to single-occupancy car journeys.	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2017 Spatial scale: Local Source affected: Transport Indicator: Reduction in short, single-occupancy car journeys by local residents. Target emissions reduction: No AQMA declared
East Riding of Yorkshire_9	Production of the Cycling Strategy	To support and encourage a healthy lifestyle, improve access to key services and to reduce carbon emissions	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Implementation	Start date: 2012 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: Percentage of journeys made by bicycle. Target emissions reduction: No AQMA declared

Measure code	Description	Focus	Classification	Status	Other information
East Riding of Yorkshire_10	The Bus Strategy	Improve standards and ensure a better quality service to provide an attractive alternative for those who currently drive for short distances	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2011 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: A high quality bus network that offers a punctual, affordable, safe and accessible transport option for all users. Target emissions reduction: No AQMA declared
East Riding of Yorkshire_11	Driver Training Programme	Link between driving style and fuel efficiency	Other measure: Other measure	Implementation	Start date: 2008 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Increased fuel efficiency Target emissions reduction: No AQMA declared
East Riding of Yorkshire_12	Promoting low emission transport	Prioritising uptake of low emission vehicles	Public procurement: Other measure	Implementation	Start date: 2008 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Increased fuel efficiency Target emissions reduction: No AQMA declared
East Riding of Yorkshire_13	Vehicle fleet efficiency	Retrofitting of exhaust gas recirculation systems to existing heavy vehicles and buses	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2007 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction in emissions from existing fleet vehicles Target emissions reduction: No AQMA declared
East Riding of Yorkshire_14	Promoting low emission transport	Procuring alternative refuelling infrastructure to promote EV recharging	Public procurement: Other measure	Implementation	Start date: 2012 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Increased uptake of electric / hybrid vehicles Target emissions reduction: No AQMA declared

Measure code	Description	Focus	Classification	Status	Other information
East Riding of Yorkshire_15	East Riding Car Share Scheme	Organised car share programme to reduce the number of single occupancy car journeys	Other measure: Other measure	Implementation	Start date: 2005 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Number of car share registrations Target emissions reduction: No AQMA declared
Harrogate Borough Council_1	Investigation in to the feasibility of HGV Restriction	To establish numbers of HGV's passing through the AQMA's	Traffic planning and management: Other measure	Other	Start date: 2013 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: HGV Counts Target emissions reduction: None
Harrogate Borough Council_2	Traffic Signal improvements	Ensuring the most efficient movement of traffic through lights.	Traffic planning and management: Other measure	Planning	Start date: 2014 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: Queue length counts Target emissions reduction: 1 µg/m3
Harrogate Borough Council_3	Improvement of Cycling Routes and Facilities	Increasing bike racks and numbers of cycle routes.	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Other	Start date: 2014 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Length of new cycle routes cycle routes secured, new bike racks installed Target emissions reduction: 0.2 µg/m3
Harrogate Borough Council_4	Signage	Confirming that existing signage is sending drivers on the most appropriate route.	Traffic planning and management: Other measure	Other	Start date: 2013 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: Queue length count Target emissions reduction: 0.1 µg/m3
Harrogate Borough Council_5	Planning Policy	Planning Policy in place, then SPD following on.	Other measure: Other measure	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: No further AQMAs declared Target emissions reduction: 0.1 µg/m3

Measure code	Description	Focus	Classification	Status	Other information
Harrogate Borough Council_6	Smarter Travel Choices	Influencing people's travel behaviour towards more sustainable options.	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2013 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: Reaching set targets Target emissions reduction: 0.2 µg/m3
Harrogate Borough Council_7	Travel Plans and School Travel	Influencing people's travel behaviour towards more sustainable options	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2013 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: Organisational travel plan Target emissions reduction: 0.2 µg/m3
Harrogate Borough Council_8	Reduce Emissions from HBC fleet	Using more efficient vehicles, trialling vehicle technology Efficient driving techniques Introducing the most appropriate tree and plant species	Other measure: Other measure	Implementation	Start date: 2013 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: No. of vehicles using latest emissions standard/fuel saving methods Target emissions reduction: 0.1 µg/m3
Harrogate Borough Council_9	Air Quality Information	Efficient driving techniques	Public information and Education: Other mechanisms	Implementation	Start date: 2013 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: Completion of webpage/No. of hits on webpage Target emissions reduction: 0.05 µg/m3
Harrogate Borough Council_10	Green Planting	Introducing the most appropriate tree and plant species	Traffic planning and management: Other measure	Other	Start date: 2013 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Trees Planted/New bed areas Target emissions reduction: None
Harrogate Borough Council_11	Installation of electric vehicle charging points	To encourage the uptake of electric vehicles	Public procurement: Other measure	Preparation	Start date: 2014 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of uses of charging points and numbers of electric vehicles purchased Target emissions reduction: 2 µg/m3

Measure code	Description	Focus	Classification	Status	Other information
Harrogate Borough Council_12	Appointment of Cabinet Member for sustainable Transport	Co-ordinating the LA's activities relating to sustainable transport & to develop relationships with relevant agencies and stakeholders	Public procurement: Other measure	Preparation	Start date: 2014 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of projects implemented Target emissions reduction: 0.1 µg/m3
Kingston-upon-Hull City Council_1	Traffic Control schemes	Traffic	Traffic planning and management: Other measure	Evaluation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: AQ improvements Target emissions reduction: Scheme dependent
Kingston-upon-Hull City Council_2	Idling vehicles legislation	Traffic		Evaluation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Vehicles stopped Target emissions reduction: No direct effect on AQMA
Kingston-upon-Hull City Council_3	Quality Bus Corridors	Traffic Traffic	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Increase in bus patronage Target emissions reduction: No direct effect on AQMA
Kingston-upon-Hull City Council_4	Park & Ride	Traffic	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Increase in bus patronage Target emissions reduction: No direct effect on AQMA
Kingston-upon-Hull City Council_5	Low Emission Buses	Traffic	Public procurement: Cleaner vehicle transport services	Evaluation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Increase in bus patronage Target emissions reduction: No direct effect on AQMA

Measure code	Description	Focus	Classification	Status	Other information
Kingston-upon-Hull City Council_6	Reducing pollution from Council vehicles/activities	Traffic	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Fleet composition Target emissions reduction: No direct effect on AQMA
Kingston-upon-Hull City Council_7	Roadside Emission Testing	Traffic	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Vehicles failing Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_8	Liaison with Primary Care Trust for health/AQ statistics	Public awareness and targeted monitoring and action	Public information and Education:	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Reviews in target areas. Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_9	Energy efficiency schemes	Householders	Public information and Education: Other mechanisms	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Properties included Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_10	Cycling and walking schemes	Householders General Public	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Number walking Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_11	Increase awareness	General Public	Public information and Education: Other mechanisms	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Response to AQ issues Target emissions reduction: Minimal effect on AQMA

Measure code	Description	Focus	Classification	Status	Other information
Kingston-upon-Hull City Council_12	School curriculum	Children	Public information and Education: Other mechanisms	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Take up of packages offered Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_13	Real time information of public transport network	General Public	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Increase in bus patronage Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_14	Planning Guidance for developers	City wide	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Increase in unprompted AQ detail in applications. Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_15	Liaison with Highways Agency	Traffic Traffic	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: AQ improvements Target emissions reduction: Scheme dependent
Kingston-upon-Hull City Council_16	AQ objectives in annual performance reviews of staff/departments	General Public	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_17	AQ included in staff induction	General Public	Permit systems and economic instruments: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: Minimal effect on AQMA

Measure code	Description	Focus	Classification	Status	Other information
Kingston-upon-Hull City Council_18	IPPC	General Public	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: Minimal effect on AQMA
Kingston-upon-Hull City Council_20	Regional liaison	General Public	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Other, please specify Indicator: N/A Target emissions reduction: N/A
Kirklees Metropolitan Council_1	Install Split Cycle Offset Optimisation technique (SCOOT) Traffic Managements System within AQMA 1	Vehicle queuing	Traffic planning and management:	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_2	Alter SCOOT to incorporate actual Air Quality pollution levels	Vehicle queuing Reducing Public transport queuing times	Traffic planning and management: Other measure	Planning	Start date: 2016 Expected end date: 2017 Spatial scale: Local Source affected: Transport Indicator: Reduction in NOx and PM10 Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_3	Bus priority at lights in AQMA 1	Reducing Public transport queuing ctimes	Traffic planning and management: Other measure	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time for public transport Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_4	Bradley Junction. Re-model one of the busiest Road Junction in Kirklees in AQMA 1	Vehicle queuing	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2019 Expected end date: 2021 Spatial scale: Local Source affected: Transport Indicator: Reduce congestion levels at AM/PM peaks Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_5	Ravensthorpe Bypass. Complete by pass of AQMA 2.	Diverting traffic away from AQMA 2	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2021 Expected end date: 2026 Spatial scale: Local Source affected: Transport Indicator: Divert traffic away from AQMA 2 Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_6	Cooper Bridge Gyratory proposed in AMQMA 1	Traffic Management	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2019 Expected end date: 2021 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_7	Proposed New Junction 24a on M62	Traffic Management	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2021 Expected end date: 2023 Spatial scale: Local Source affected: Transport Indicator: Reduction in traffic volume through AQMA 1 Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_8	Bus Lanes approaching AQMA 1	Public transport improvements	Traffic planning and management: Improvement of public transport	Evaluation	Start date: 2011 Expected end date: 2011 Spatial scale: Local Source affected: Transport Indicator: Reduction in delays to buses Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_9	Resource Smart Resource Corridor	ransport link improvement	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction of NO2 in AQMA Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_10	Internal Travel Plans	Promote modal shift	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2008 Expected end date: 2009 Spatial scale: Local Source affected: Transport Indicator: Uptake of sustainable options Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_11	Transport Plans for Businesses required	Promote modal shift	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2006 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Uptake of sustainable options Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_12	School Travel Plan Framework	Promote modal shift Promote modal shift	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2005 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Uptake of sustainable options Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_13	Bikeability in schools. Council staff visited schools giving cycling safety training.	Promote modal shift	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2010 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Increase in cycling Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_14	Spen Valley Greenway (Traffic Free Cycleway on former railway line)	Improvement to cycle route	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Evaluation	Start date: 2001 Expected end date: 2001 Spatial scale: Local Source affected: Transport Indicator: Increase in cycling Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_15	Calder Valley Cycleway (Traffic Free Cycleway on former railway line)	Improvement to cycle route	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Planning	Start date: 2008 Expected end date: 2008 Spatial scale: Local Source affected: Transport Indicator: Increase in cycling Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_16	City Cycle Ambition Grant 2	Improvement to cycle route to connect the Colne Valley to Cooper Bridge (through AQMA 1)	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Planning	Start date: 2015 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Increase in cycling Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_17	Free Parking for Electric Vehicles and 50% discount on parking for other ULEV	Promote uptake of LEVs	Traffic planning and management: Differentiation of parking fees	Implementation	Start date: 2008 Expected end date: 2008 Spatial scale: Local Source affected: Transport Indicator: Uptake of low emission and Ultra Low Emission Vehicles Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_18	City Car Club	Private Vehicle Usage reduction	Other measure: Other measure	Evaluation	Start date: 2009 Expected end date: 2009 Spatial scale: Local Source affected: Transport Indicator: Use of club cars Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_19	Car Sharing Scheme	Private Vehicle Usage reduction	Other measure: Other measure	Evaluation	Start date: 2007 Expected end date: 2007 Spatial scale: Local Source affected: Transport Indicator: Use of website Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_20	Local Free Bus around Huddersfield Town Centre and Dewsbury Town Centre	Private Vehicle Usage reduction	Other measure: Other measure	Evaluation	Start date: 2006 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Bus Patronage Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_21	Conversion of Fleet to ULEV where appropriate	Promoting ULEV vehicles	Public procurement: Other measure	Implementation	Start date: 2008 Expected end date: 2020 Spatial scale: Local Source affected: Transport Indicator: Number of fleet changed to EV Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_22	Air Quality report to Newspaper	Promotes Air Quality Information to public	Public procurement: Other measure	Implementation	Start date: 2006 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Awareness of Air Quality amongst the public Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_23	Bike to work scheme within Council, discount cycle purchase scheme	Promote modal shift	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2009 Expected end date: 2009 Spatial scale: Local Source affected: Transport Indicator: Uptake of bikes Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_24	Local sustainable transport fund project to promote modal shift in schools. Dedicated officer visiting schools promoting model shift	Promote modal shift Policy driver	Traffic planning and management: Encouragement of shift of transport modes	Planning	Start date: 2012 Expected end date: 2012 Spatial scale: Local Source affected: Transport Indicator: Monitor transport options at local schools Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_25	Air Quality Strategy	Policy driver	Other measure: Other measure	Evaluation	Start date: 2006 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Local policy using Air Quality as a decision factor Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_26	Deep Clean in AQMA 2	Deep clean area to reduce particulate resuspension	Traffic planning and management: Other measure	Evaluation	Start date: 2013 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction in PM10 levels Target emissions reduction: PM10
Kirklees Metropolitan Council_27	Mote sensing real-time emissions	Research	Other measure: Other measure	Evaluation	Start date: 2010 Expected end date: 2011 Spatial scale: Local Source affected: Transport Indicator: Results from research Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_28	Electric Vehicle Charge point Installed in Council Depot	Improvement to infrastructure	Public procurement: Other measure	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Number of fleet changed to EV Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_29	Trial of EV vehicles as pool car	Modal shift	Public procurement: Other measure	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Uptake of LEVs Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_30	Planning conditions on all applications for sustainable transport	Promotes ULEV adoption Promote green procurement Air Quality Policy	Other measure: Other measure	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Number of conditions on approval Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_31	Green Procurement Toolkit	Promote green procurement	Other measure: Other measure	Evaluation	Start date: 2006 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Use of toolkit in procurement Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_32	West Yorkshire Low Emission Strategy	Air Quality Policy	Other measure: Other measure	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Policy adopted by Kirklees Council Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_33	Hotel EV Charge Point Project. Electric Vehicle Charge points installed in a number of accommodation providers	Improvement to infrastructure	Public procurement: Other measure	Implementation	Start date: 2015 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Use of the charge points Target emissions reduction: NO2 / PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_34	Install SCOOT within AQMA 2	Vehicle queuing	Traffic planning and management: Other measure	Implementation	Start date: 2013 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_35	New links to Greenway (Cycle Path) added through planning	Promote modal shift	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Evaluation	Start date: 2001 Expected end date: 2001 Spatial scale: Local Source affected: Transport Indicator: Increase cycle routes Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_36	Subsidised Metro Cards for Staff	Promote modal shift Modal Shift Promotes ULEV adoption	Other measure: Other measure	Evaluation	Start date: 2006 Expected end date: 2006 Spatial scale: Local Source affected: Transport Indicator: Promote use of public transport Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_37	Metro Cards Introduced for work journeys	Modal Shift	Other measure: Other measure	Evaluation	Start date: 2009 Expected end date: 2009 Spatial scale: Local Source affected: Transport Indicator: Reduce use of cars for shorter journeys Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_38	Installing EV Charge points into private car parks (three sites, 4 units installed)	Promotes ULEV adoption	Public procurement: Other measure	Implementation	Start date: 2015 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Usage of charge points Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_39	Congestions performance funding	Promotes modal shift in schools	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2012 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Number of children going to schools using non private vehicles to access sites Target emissions reduction: NO2/PM10

Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_40	Bus priority at lights in AQMA 1. Gives late buses priority through Air Quality Management Area 1	Public transport journey times reduced, incentivising Public Transport	Traffic planning and management: Other measure	Evaluation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time for public transport Target emissions reduction: NO2 / PM10
Kirklees Metropolitan Council_41	Bluetooth journey monitoring	Inform traffic management systems	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Inform smart traffic management Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_42	Retrofitting of School Buses with Pollution abatement equipment	Vehicle Emissions Management	Retrofitting: Retrofitting emission control equipment to vehicles	Evaluation	Start date: 2013 Expected end date: 2014 Spatial scale: Whole agglomeration Source affected: Transport Indicator: All school buses now retrofitted and emissions reduced by 90% Target emissions reduction: NO2
Kirklees Metropolitan Council_43	Ainley Top	Highway Improvements and installation of Scoot	Traffic planning and management: Other measure	Evaluation	Start date: 2014 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Reduction in traffic congestion Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_44	A629 Corridor Improvement	Vehicle queuing	Traffic planning and management: Other measure	Planning	Start date: 2018 Expected end date: 2021 Spatial scale: Local Source affected: Transport Indicator: Reduction in traffic congestion Target emissions reduction: NO2/PM10

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Measure code	Description	Focus	Classification	Status	Other information
Kirklees Metropolitan Council_45	A653 Corridor Improvement	Vehicle queuing	Traffic planning and management: Other measure	Planning	Start date: 2018 Expected end date: 2020 Spatial scale: Local Source affected: Transport Indicator: Reduction in traffic congestion Target emissions reduction: NO2/PM10
Kirklees Metropolitan Council_46	Bus priority at lights in AQMA 2	Reducing Public transport queuing times	Other measure: Other measure	Evaluation	Start date: 2012 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: Reduction in queuing time for public transport Target emissions reduction: NO2 / PM10
Leeds City Council_1	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	Bus Lanes - linked to Quality Bus Initiatives/ Partnerships	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2012 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_2	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	Bus Lanes - linked to Quality Bus Initiatives/ Partnerships Guided busways	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2001 Expected end date: 2010 Spatial scale: Whole town or city Source affected: Transport Indicator: A total of 3.5 kms of Guideways were built along appropriate sections of the A61, A64 & A63 corridors. The A61 route has benefitted from a fleet of hybrid buses since 2011. All Guideways benefit from other bus priority systems e.g AVL Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_3	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	New Generation Transport Trolleybus	Traffic planning and management: Improvement of public transport	Preparation	Start date: 2020 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: If approved, this £250K project would involve a dedicated 14 km mass transit system, running from north to south Leeds. It will use state of the art electric trolley buses, part powered from renewable energy. Would include 2 large P&R sites, totalling 3,000 spaces Target emissions reduction: N/A
Leeds City Council_4	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	New Rail Stations Promotion of Electric trains HS2/HS3	Traffic planning and management: Improvement of public transport	Planning	Start date: 2014 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: The construction of 2 new rail stations (Apperly Bridge & Kirkstall Forge) on the electrified Airedale /Wharfedale line. Will include 2 P&R sites with 400 spaces Target emissions reduction: N/A
Leeds City Council_5	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	Promotion of Electric trains	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: Construction of a new Southern Entrance to Leeds rail station. Northern Rail constructed a cycle point at Leeds, capable of storing up to 300 cycles. Target emissions reduction: N/A
Leeds City Council_6	TRAFFIC DEMAND MANAGEMENT - PUBLIC TRANSPORT MEASURES	HS2/HS3	Traffic planning and management: Improvement of public transport	Preparation	Start date: 2012 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Proposed high speed Leeds to London route, with likely journey time reduced to 1hr 22 mins & speeds designed for 225 mph Target emissions reduction: N/A

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Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_7	TRAFFIC DEMAND MANAGEMENT - PRIORITY MEASURES	HOV lanes	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2001 Expected end date: 2011 Spatial scale: Local Source affected: Transport Indicator: Leeds set up the first HOV Iane on the A647. This was followed by a second HOV Iane on the A63, which links the IRR with the A1/M1 Link road Target emissions reduction: N/A
Leeds City Council_8	TRAFFIC DEMAND MANAGEMENT - PRIORITY MEASURES	HGV lanes	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2010 Expected end date: 2010 Spatial scale: Local Source affected: Transport Indicator: The A63 HOV lane is also an HGV lane having easy access to the to M1 for the existing Industrial area + the proposed Leeds Enterprise Zone Target emissions reduction: N/A
Leeds City Council_9	TRAFFIC DEMAND MANAGEMENT - PRIORITY MEASURES	Bus lanes/gates	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2001 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: As for QBI's Target emissions reduction: N/A
Leeds City Council_10	TRAFFIC DEMAND MANAGEMENT - PRIORITY MEASURES	AVL - priority at traffic lights for buses	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2001 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Used on most transport corridors in Leeds e.g Guided bus. It extends Green phase of lights, known as SPRUCE Target emissions reduction: N/A

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Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_11	TRAFFIC DEMAND MANAGEMENT - INTEGRATED TRANSPORT SYSTEMS	P+R sites	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: Elland Rd P&R has capacity for 800 cars, it opened mid 2014, average occupancy is 350 cars & increasing + 8 EV recharging points. Temple Green is proposed 1,000 space P&R in Leeds Enterprise Zone, it will operate Hybrid buses Target emissions reduction: N/A
Leeds City Council_12	TRAFFIC DEMAND MANAGEMENT - INTEGRATED TRANSPORT SYSTEMS	Quality Contracts/ Partnerships	Public procurement: Cleaner vehicle transport services	Other	Start date: 2010 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: On Going discussions with WYCA & relevant Bus Operators Target emissions reduction: N/A
Leeds City Council_13	TRAFFIC DEMAND MANAGEMENT - FISCAL RESTRAINTS	Incentives to promote LEVs + ULEV	Public procurement: Other measure	Evaluation	Start date: 2016 Expected end date: 2021 Spatial scale: Whole town or city Source affected: Transport Indicator: A range of incentives are being developed to promote EV's & hybrid cars/taxis. Will include reduced parking costs, free EV recharging, beneficial taxi ranks etc. Target emissions reduction: N/A
Leeds City Council_14	TRAFFIC DEMAND MANAGEMENT - FISCAL RESTRAINTS	Cal Parking charges	Traffic planning and management: Differentiation of parking fees	Implementation	Start date: 2016 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: As for 13 Target emissions reduction: N/A
Leeds City Council_15	TRAFFIC DEMAND MANAGEMENT - CYCLING & WALKING	Leeds & Bradford City Connect Superhighway	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: £20m Govt. funding for 23kms of segregated cycle & pedestrian tracks, between east Leeds & Bradford CC Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_16	TRAFFIC DEMAND MANAGEMENT - CYCLING & WALKING	Cycling & pedestrian routes	Traffic planning and management: Expansion of bicycle and pedestrian infrastructure	Implementation	Start date: 2001 Expected end date: 2026 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_17	ENCOURAGING SUSTAINABLE TRAVEL - TRAVELWISE	Travel awareness campaigns	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2001 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: A range of initiatives & campaigns take place on an annual basis, managed by a specialist LCC & W Yorks Team Target emissions reduction: N/A
Leeds City Council_18	ENCOURAGING SUSTAINABLE TRAVEL - TRAVELWISE	Bikeability	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2005 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Specialist Team provides cycle training to all primary schools Target emissions reduction: N/A
Leeds City Council_19	ENCOURAGING SUSTAINABLE TRAVEL - TRAVELWISE	Leeds City Car Club - with increasing use of ULEVs	Other measure: Other measure	Planning	Start date: 2005 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Numerous sites in Leeds. Approx. 50 cars are available to Leeds City Car Club members Target emissions reduction: N/A
Leeds City Council_20	ENCOURAGING SUSTAINABLE TRAVEL - TRAVELWISE	Oar Sharing	Other measure: Other measure	Implementation	Start date: 2005 Expected end date: 2030 Spatial scale: Whole agglomeration Source affected: Transport Indicator: LCC corporate car sharing + the W Yorks Travel Plan Network have a large & growing database for car sharing Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_21	ENCOURAGING SUSTAINABLE TRAVEL - TRAVEL PLANNING	School, workplace and residential travel plans	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2001 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: 278 schools (98%) of schools have tailored Travel Plans, 49 of which are monitored annually & 15 are 'accredited schools'. Links with Corporate & W Yorks Travel Plans Target emissions reduction: N/A
Leeds City Council_22	ENCOURAGING SUSTAINABLE TRAVEL - TRAVEL PLANNING	Personalised travel plans	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2005 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Sustrans school officers have developed bespoke Travel plans across various organisations Target emissions reduction: N/A
Leeds City Council_23	ACTIONS TO REDUCE VEHICLE EMISSIONS - TRAFFIC MANAGEMENT	New UTMC system to promote smooth/free-flowing traffic	Traffic planning and management: Other measure	Implementation	Start date: 2012 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: A new TMS is now operational that has improved traffic flow & reduced disruption. This system continues to be extended and is backed up with CCTV cameras at over 200 sites Target emissions reduction: N/A
Leeds City Council_24	ACTIONS TO REDUCE VEHICLE • EMISSIONS - TRAFFIC MANAGEMENT		Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Have installed 20 VMS's across Leeds at appropriate locations, to advise motorists of disruption Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_25	ACTIONS TO REDUCE VEHICLE EMISSIONS - TRAFFIC MANAGEMENT	Speed Management (Active speed management signs)	Traffic planning and management: Other measure	Implementation	Start date: 2012 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: 50 Vehicle Activated Signs have been set up in appropriate sites across Leeds Target emissions reduction: N/A
Leeds City Council_26	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Exemplar local authority - Liquid gas (CNG/LBM) vehicles; hybrid vans; electric 'panel' vans	Public procurement: Other measure	Implementation	Start date: 2009 Expected end date: 2025 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of fleet vehicles switched to LEV / Alternative fuel and technology Target emissions reduction: N/A
Leeds City Council_27	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Development of public EV recharging network (fast and rapid)	Public procurement: Other measure	Preparation	Start date: 2014 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: 16 Rapid EV Chargers Installed on strategic WY network, of which 8 will be in Leeds Target emissions reduction: N/A
Leeds City Council_28	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	EV recharging in residential and commercial premises conditioned through planning	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: No. of EV charge points installed on new developments Target emissions reduction: N/A
Leeds City Council_29	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Provision of hybrid buses (x35) in Leeds based fleet	Public procurement: Cleaner vehicle transport services	Implementation	Start date: 2012 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: A total of 35 Hybrid buses are operational in the north & east of Leeds Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_30	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Retrofit technologies - SCRT to 146 WYMetro buses	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2014 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: All Euro III and Euro IV buses retrofitted to meet Euro V+ emission standards Target emissions reduction: N/A
Leeds City Council_31	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Shift of LA Refuse Collection fleet to CNG/LBM; gas refuelling infrastructure	Public procurement: Other measure	Planning	Start date: 2013 Expected end date: 2022 Spatial scale: Local Source affected: Transport Indicator: No of additional CNG Refuse Collection Vehicles (RCV) entering the fleet Target emissions reduction: N/A
Leeds City Council_32	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Hybrid taxi/private hire project	Permit systems and economic instruments: Introduction/increase of environment taxes	Other	Start date: 2013 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Penetration of hybrid vehicles into licensed fleet Target emissions reduction: N/A
Leeds City Council_33	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Development of hydrogen bus feasibility project	Public procurement: New vehicles, including low emission vehicles	Evaluation	Start date: 2016 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_34	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Liquid Air' technology applications & trials on buses & refrigerated transport units in Leeds	Retrofitting: Retrofitting emission control equipment to vehicles	Planning	Start date: 2015 Expected end date: 2017 Spatial scale: Whole agglomeration Source affected: Transport Indicator: The Dearman Engine Company have received Govt. funding to develop & trial zero emission Heat Hybrid bus units & zero emission Transport Refrigeration Units (TRUs), working with local Bus & Supermarket operators in Leeds Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_35	ACTIONS TO REDUCE VEHICLE EMISSIONS - LOW EMISSION STRATEGIES AND CLEANER FUELS	Eco driving techniques - SAFED courses	Other measure: Other measure	Implementation	Start date: 2006 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_36	GUL CITY SCHEME BID	Access to and advanced booking of all EV recharging points using Public Transport Smart Card	Public procurement: Other measure	Planning	Start date: 2016 Expected end date: 2021 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_37	GUL CITY SCHEME BID	Smart EV energy use through dynamic charging system	Public procurement: Other measure	Planning	Start date: 2016 Expected end date: 2020 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_38	GUL CITY SCHEME BID	Scrappage scheme to incentivise ULEV uptake	Public procurement: Other measure	Evaluation	Start date: 2016 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_39	GUL CITY SCHEME BID	ULEV purchase incentives for employees	Public procurement: Other measure	Evaluation	Start date: 2016 Expected end date: 2016 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_40	GUL CITY SCHEME BID	Free city centre parking	Traffic planning and management: Differentiation of parking fees	Planning	Start date: 2016 Expected end date: 2016 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_41	GUL CITY SCHEME BID	Try-before-you-buy' EV fleet to encourage uptake	Public procurement: Other measure	Evaluation	Start date: 2016 Expected end date: 2017 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_42	GUL CITY SCHEME BID	Expansion of ULEV fleet in Car Club vehicles	Public procurement: Other measure	Planning	Start date: 2016 Expected end date: 2016 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_43	GUL CITY SCHEME BID	A ULEV apprenticeship programme to skill vehicle repairers and servicing staff	Public procurement: Other measure	Planning	Start date: 2016 Expected end date: 2019 Spatial scale: Whole agglomeration Source affected: Transport Indicator: N/A Target emissions reduction: N/A
Leeds City Council_44	OVERARCHING STRATEGIC DOCUMENTS	West Yorkshire Transport Emissions Group (WYTEG)	Public procurement: Other measure	Other	Start date: 2001 Expected end date: 2030 Spatial scale: Whole agglomeration Source affected: Transport Indicator: WYTEG has continued to provide advice to the W Yorks LTP on Air Quality, Climate Change mitigation & resilience, Noise & ULEVs /fuels etc. Target emissions reduction: N/A
Leeds City Council_45	OVERARCHING STRATEGIC DOCUMENTS	West Yorkshire Low Emission Strategy (WYLES)	Public procurement: Other measure	Preparation	Start date: 2015 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: To develop an overarching West Yorkshire Low Emission Strategy. Final draft completed March 2015. Target emissions reduction: N/A
Leeds City Council_46	OVERARCHING STRATEGIC DOCUMENTS	Leeds LEZ Feasibility Study	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: Joint working with Bradford provided excellent value for supporting HIA report & for the EcIA report Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Leeds City Council_47	OVERARCHING STRATEGIC DOCUMENTS	Leeds CC Low Emission Strategy - including freight and bus strategies	Other measure: Other measure	Planning	Start date: 2015 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: Delivery of LES for Leeds CC based on development of WYLES and with knowledge gained from LEZ feasibility study Target emissions reduction: N/A
North East Lincolnshire Council_1	New infrastructure option: Right turn from traffic travelling from the West	Reduce emissions within AQMA	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Reduction of monitored NO2 Target emissions reduction: 0.08
North East Lincolnshire Council_2	Traffic Management Change traffic cycles at peak times	Reduce emissions within AQMA	Traffic planning and management: Other measure	Other	Start date: 2013 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Reduction of monitored NO2 Target emissions reduction: 0.08
North East Lincolnshire Council_3	Highways Signage: Improved signs at Lockhill for the dock traffic	Divert HGVs & reduce emissions	Traffic planning and management: Other measure	Planning	Start date: 2014 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Reduction of monitored NO2 Target emissions reduction:
North East Lincolnshire Council_4	Pollution Control: Promotion of Air Quality within NELC	Reduce residents using cars & promote the use of public transport, cycling & walking	Public information and Education: Other mechanisms	Other	Start date: 2015 Expected end date: 2017 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of residents that sign up to schemes promoting cycling & walking etc. Target emissions reduction:
North East Lincolnshire Council_5	AQ Planning Guidance	Reduce emissions	Other measure: Other measure	Preparation	Start date: 2015 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: More AQ assessments to control levels of NO2 & PM10 within NEL Target emissions reduction:

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Measure code	Description	Focus	Classification	Status	Other information
North East Lincolnshire Council_6	Air Quality Strategy	Reduce emissions	Other measure: Other measure	Preparation	Start date: 2016 Expected end date: 2017 Spatial scale: Whole town or city Source affected: Transport Indicator: Reduction of monitored NO2 Target emissions reduction: N/A
North Lincolnshire Council_1	Public Information	To inform the general public	Public information and Education: Internet	Evaluation	Start date: 2003 Expected end date: 2014 Spatial scale: Local Source affected: Other, please specify Indicator: Internet Target emissions reduction: N/A
North Lincolnshire Council_2	Traffic count	Asses volume of HGV's	Traffic planning and management: Other measure	Evaluation	Start date: 2008 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Data collection Target emissions reduction: Low
North Lincolnshire Council_3	Permit improvement programme	Asses emissions from Tata steel	Other measure: Other measure	Preparation	Start date: 2008 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Industry including heat and power production Indicator: N/A Target emissions reduction: N/A
North Lincolnshire Council_4	Air pollution forecasting	Information	Public information and Education: Internet	Evaluation	Start date: 2009 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Other, please specify Indicator: Internet Target emissions reduction: N/A
North Lincolnshire Council_5	Publicity campaigns	Supply information to the public	Public information and Education: Leaflets	Other	Start date: 2008 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Commercial and residential sources Indicator: Information Target emissions reduction: Low

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Measure code	Description	Focus	Classification	Status	Other information
North Lincolnshire Council_6	Strategic air quality meetings	Identify key issues	Public information and Education: Other mechanisms	Other	Start date: 2008 Expected end date: 2014 Spatial scale: Local Source affected: Commercial and residential sources Indicator: Information Target emissions reduction: High
North Lincolnshire Council_7	Work with local industry and EA to develop target to reduce the size of the AQMA	Reduce the number of properties affected	Other measure: Other measure	Implementation	Start date: 2010 Expected end date: 2014 Spatial scale: Local Source affected: Industry including heat and power production Indicator: N/A Target emissions reduction: High
North Lincolnshire Council_8	Bus priority measures	Ensure that public transport is quicker than private cars	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2006 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: Low
North Lincolnshire Council_9	Improve facilities for pedestrians	N/A Mailoni	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2006 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: Low
North Lincolnshire Council_10	Urban traffic control	Smoother flow of traffic	Traffic planning and management: Other measure	Evaluation	Start date: 2006 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: Low
North Lincolnshire Council_11	Replacement buses	Low emission vehicles	Public procurement: Cleaner vehicle transport services	Evaluation	Start date: 2006 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: Low
North Lincolnshire Council_12	Improve facilities for cyclists	N/A	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2006 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: Low

Measure code	Description	Focus	Classification	Status	Other information
Rotherham Metropolitan Borough Council_1	Low emission strategy	Development of Rotherham MBC's Low Emission Strategy	Public procurement: Other measure	Preparation	Start date: 2015 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_2	M1 smart motorway scheme	Highways Agency Scheme. Speed limits may be imposed for mitigation of the air quality impact of the scheme	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2015 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: 0
Rotherham Metropolitan Borough Council_3	ECO Stars	South Yorkshire ECO Stars Fleet Recognition Scheme, provides a 'road map' to each member to reduce emissions	Other measure: Other measure	Implementation	Start date: 2008 Expected end date: 2017 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_4	Infrastructure for refuelling low emission vehicles (1) 'Inmotion' Electric Vehicle Project	Scheme targets SMEs in South Yorkshire to provide charging points and leasing of electric vehicles (LSTF)	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_5	Develop the infrastructure for refuelling low emission vehicles (2) CNG refuelling infrastructure	Develop the infrastructure for CNG refuelling - feasibility	Public procurement: Other measure	Preparation	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_6	Develop the infrastructure for refuelling low emission vehicles (3) Hydrogen vehicle re-fuelling infrastructure and vehicle trial	Hydrogen re-fuelling infrastructure and vehicle trial in partnership with ITM Power	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_7	Public Health/Community Protection PM2.5 Project to develop a Health Improvement Plan	PM2.5 action plan and communication strategy	Public information and Education: Other mechanisms	Planning	Start date: 2015 Expected end date: 2017 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Rotherham Metropolitan Borough Council_8	Care4air	South Yorkshire Care4air campaign	Public information and Education: Internet	Implementation	Start date: 2005 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_9	Clean energy generation from Transport Assets. Photo-voltaic installation, wind turbine, timers in bus shelters	Clean energy generation schemes	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2013 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_10	Improvements to Rotherham Bus Services	Rotherham Bus Partnership	Traffic planning and management: Improvement of public transport	Implementation	Start date: 2014 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_11	Local road schemes – Waverley link road/ Halfpenny Link	Road schemes to alleviate congestion Development Control	Traffic planning and management: Other measure	Implementation	Start date: 2015 Expected end date: 2017 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_12	Emissions and Air Quality Planning Guidance	Development Control	Other measure: Other measure	Implementation	Start date: 2015 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_13	Promoting green infrastructure	Green infrastructure project to protect human health	Traffic planning and management: Other measure	Planning	Start date: 2015 Expected end date: 2020 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Rotherham Metropolitan Borough Council_14	Rotherham MBC Fleet Improvement Programme	Rotherham MBC Fleet Improvement	Other measure: Other measure	Implementation	Start date: 2015 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: Not available Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Rotherham Metropolitan Borough Council_15	CVTF – Turning up the Heat on NOx	CVTF project - retrofitting technology to reduce NOx emissions in AQMAs	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2014 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Annual mean nitrogen dioxide at AQMA monitoring sites Target emissions reduction: 0.03
Rotherham Metropolitan Borough Council_16	Taxi Licensing	Standards for licensed taxis	Other measure: Other measure	Preparation	Start date: 2015 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Not available Target emissions reduction: N/A
Ryedale District Council_AP1	Brambling Fields Interchange Junction Improvement	Provide alternative route into and out of Malton to reduce traffic fows in the AQMA	Traffic planning and management: Other measure	Evaluation	Start date: 2012 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: Completion date and change in traffic flow through Butcher Corner Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Ryedale District Council_AP2a	Heavy Duty Vehicle Restrictions	Reduce number of HGV movements in the AQMA by imposing restriction on HGV'S CROSSING County Bridge	Traffic planning and management: Other measure	Planning	Start date: 2012 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Implementation and change in HDV movements through Butcher Corner Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Ryedale District Council_AP2b	One-Way Restriction on Norton Road	Introduce a one-way section on Norton road. This is intended to prevent long distance traffic from using Railway Street (southbound) and Norton Road (eastbound) and encourage use of Brambling Fields junction.	Traffic planning and management: Other measure	Planning	Start date: 2012 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Implementation and change in HDV movements through Butcher Corner Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014

Measure code	Description	Focus	Classification	Status	Other information
Ryedale District Council_AP2c	Extra Pedestrian Phase at Butcher Corner Traffic Lights	Increase travel time through Butcher Corner to encourage motorists to improved Brambling Fields junction.	Traffic planning and management: Other measure	Planning	Start date: 2012 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Implementation Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Ryedale District Council_AP3	Town Centre Speed Restriction Zone	Reduce vehicle speeds and emissions in town centre.	Traffic planning and management: Reduction of speed limits and control	Planning	Start date: 2012 Expected end date: 2016 Spatial scale: Local Source affected: Transport Indicator: Implementation Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Ryedale District Council_AP4	Travel Plans - Smarter Choices	Production of travel plans by developers	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2013 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of new travel plans in Malton & Norton Target emissions reduction: N/A
Ryedale District Council_AP5	School Travel	Encourage use of alternatives to car as means of travel to school	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2012 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of STP's reviewed in Malton & Norton Target emissions reduction: 1
Ryedale District Council_AP6	Public Transport	Promote transport alternatives to private cars	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Bus and train service levels to/from Malton & Norton Target emissions reduction: Maintain or Improve existing (2011) service levels

Measure code	Description	Focus	Classification	Status	Other information
Ryedale District Council_AP7	Air Quality Information	Raise awareness of the air quality action plan and promotion of measures to improve air quality	Public information and Education: Internet	Implementation	Start date: 2012 Expected end date: 2012 Spatial scale: Whole town or city Source affected: Transport Indicator: Provision of Action Plan information on Council Website & Smarter driving information available from Energy Saving Trust web site via link on RDC web site Target emissions reduction: Complete
Ryedale District Council_AP8	Planning Policy	Require assessment of air quality impact of development proposals and appropriate mitigation	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of Air Quality Impact Assessments related to Malton AQMA Target emissions reduction: 100% in relation to development with potential to impact on air quality
Ryedale District Council_AP9	Idling/Cut Engine Signage	Promote reduction in drivers iding whilst queuing in traffic within AQMA	Public information and Education: Other mechanisms	Implementation	Start date: 2012 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Completion Target emissions reduction: 41061
Ryedale District Council_AP10	Reduce emissions from RDC vehicle fleet	Reduce emissions from council fleet, including refuse collection vehicles, by means of route optimisation and tracking software	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Use of route optimisation and vehicle tracking in all streetscene vehicles Target emissions reduction: Ongoing
Ryedale District Council_Other Measure 1	Emissions from NYCC vehicle fleet	N/A	Public procurement: New vehicles, including low emission vehicles	Implementation	Start date: 2012 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Procurement of EURO 6 Iorries and minibuses Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
Ryedale District Council_Other Measure 2	Feasibility Study for A64 transport infrastructure improvement	Create eastbound access slip and westbound exit slip at western end of by-pass	Traffic planning and management: Other measure	Evaluation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Completion of feasibility study Target emissions reduction: N/A
Ryedale District Council_Other Measure 3	SUSTRANS feasibility study for Malton to Pickering cycle route	Identify route options, costs and funding sources	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2015 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Completion Target emissions reduction: N/A
Ryedale District Council_Other Measure 4	Junction Priority Changes	Reduce traffic queuing back from railway crossing into AQMA	Traffic planning and management: Other measure	Planning	Start date: 2015 Expected end date: 2015 Spatial scale: Local Source affected: Transport Indicator: Completion Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Ryedale District Council_Other Measure 5	Road Signage	Increase utilisation of enhance Brambling Field junction thus reducing traffic in the AQMA	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Local Source affected: Transport Indicator: Completion Target emissions reduction: Achievement of NO2 Annual mean objective at all monitoring locations in the Malton AQMA in 2014
Scarborough Borough Council_1	Continue with NO2 monitoring programme	Quantify NO2 air quality objectives by monitoring and formulate action plans as appropriate	Traffic planning and management: Other measure	Other	Start date: 2014 Expected end date: 2015 Spatial scale: Local Source affected: Commercial and residential sources Indicator: Annual mean NO2 not to exceed 40ugm-3 Target emissions reduction: NA

Measure code	Description	Focus	Classification	Status	Other information
Sheffield City Council_1	Assess feasibility of a low emission zone	Undertake study to establish feasibility	Other measure: Other measure	Other	Start date: 2014 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Recommendation: 30% traffic emissions reduction by 2015 Target emissions reduction: Task and Finish Work Packages and Leads setup
Sheffield City Council_2	Develop Infrastructure for Refuelling Low Emission Vehicles	Identify funding / partner / investor to establish infrastructure	Public procurement: Other measure	Planning	Start date: 2015 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Secure suitable site/s Target emissions reduction: 20% reduction in NOx
Sheffield City Council_3	Promote Smarter Travel Choices	Reduce private car emissions	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2008 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Achieve reduction from private car by 2020 Target emissions reduction: 0.05
Sheffield City Council_4	Improve Engine Performance of Commercial Diesel Vehicles	Reduce diesel emissions from commercial vehicles	Retrofitting: Retrofitting emission control equipment to vehicles	Other	Start date: 2012 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Achieve reduction from commercial vehicles by 2020 Target emissions reduction: 0.2
Sheffield City Council_5	Mitigate the Impact of the M1 motorway (particularly in the Tipsley Area)	Beduce vehicle emissions from the motorway through partnership working with the Highways Agency (HA)	Traffic planning and management: Other measure	Implementation	Start date: 2014 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: Construct Smart Motorway and barrier along M1 J34 south slip Target emissions reduction: Up to 5% of annual EU limit value

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Measure code	Description	Focus	Classification	Status	Other information
Sheffield City Council_6	Develop Policies to Support Better Air Quality	Restrict new sensitive uses (homes, schools etc.) from being developed in areas where national air quality objectives are being exceeded, unless significant mitigation measures are included within those developments.	Other measure: Other measure	Other	Start date: 2013 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Other, please specify Indicator: Sheffield Local Plan will have policies aimed at improving air quality Target emissions reduction: Up to 2% of annual EU limit value
Sheffield City Council_7	Control Industrial Emissions	Regulate installations which are permitted under the Environmental Permitting Regulations	Permit systems and economic instruments: IPPC permits	Implementation	Start date: 2013 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Industry including heat and power production Indicator: Install abatement equipment and employ the "best available techniques" to control emissions Target emissions reduction: 1-2%
Wakefield Metropolitan District Council_1	Establish the West Yorkshire Low Emissions Strategy	Overarching strategy to enable emissions reduction implementation	Other measure: Other measure	Evaluation	Start date: 2016 Expected end date: 2020 Spatial scale: Whole agglomeration Source affected: Transport Indicator: Adoption within the authority's principals Target emissions reduction: Emission reductions not quantified but like to be substantial when action plan implemented
Wakefield Metropolitan District Council_2	Production of an air quality and emissions planning guidance document	To reduce emissions from new developments	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2014 Spatial scale: Whole town or city Source affected: Transport Indicator: Implementation of the guidance Target emissions reduction: Emission reductions not quantified but likely to be significant when implemented

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Measure code	Description	Focus	Classification	Status	Other information
Wakefield Metropolitan District Council_3	Establish EV charging in all new developments	To reduce emissions from new developments	Public procurement: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: No. of developments with charging infrastructure Target emissions reduction: Emission reductions not quantified but likely to be significant when implemented
Wakefield Metropolitan District Council_4	Establish Rapid charging EV point network	To allow uptake of LEV	Public procurement: Other measure	Implementation	Start date: 2015 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of points created to complement existing points Target emissions reduction: Emission reductions not quantified but likely to be significant when implemented
Wakefield Metropolitan District Council_5	Creation of the Wakefield Eastern Relief Road (WERR) & associated emissions reduction measures	To relieve congestion in Wakefield city	Traffic planning and management: Other measure	Implementation	Start date: 2016 Expected end date: 2017 Spatial scale: Whole town or city Source affected: Transport Indicator: Implementation of air quality mitigation measures Target emissions reduction: Up to 30% reductions within the AQMA, dependent on the uptake of measures
Wakefield Metropolitan District Council_6	Retrofit (SCR) to fleet of MyBus school buses	Reduce emissions in exceedance areas	Retrofitting: Retrofitting emission control equipment to vehicles	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Whole agglomeration Source affected: Transport Indicator: Elimination of Euro III & IV school buses Target emissions reduction: Emission reductions not quantified but likely to be significant when implemented

Measure code	Description	Focus	Classification	Status	Other information
Wakefield Metropolitan District Council_7	Conversion and expansion of Council LEV fleet	Reduce polluting emissions	Other measure: Other measure	Planning	Start date: 2016 Expected end date: 2020 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of vehicles procured or converted Target emissions reduction: Emission reductions not quantified but likely to be substantial when action plan implemented
Wakefield Metropolitan District Council_8	LE taxi/Private Hire	Reduce polluting emissions	Permit systems and economic instruments: Introduction/increase of environment taxes	Planning	Start date: 2016 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: Uptake of initiatives Target emissions reduction: Emissions reductions not quantified but are reflected in air quality improvements
York City Council_AP1	Adopt Supplementary Planning Guidance on Sustainable Design and Construction	Minimise emissions from new development	Other measure: Other measure	Evaluation	Start date: 2002 Expected end date: 2007 Spatial scale: Whole town or city Source affected: Commercial and residential sources Indicator: N/A Target emissions reduction: N/A
York City Council_AP4	Have a car club operational in the city by 31st December 2006	Minimise emissions in AQMA - particularly in relation to new development	Other measure: Other measure	Evaluation	Start date: 2002 Expected end date: 2007 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP30	Appoint a developer to drawup a mixed use Master Plan for York Central by 31st December 2007	Minimise emissions from new development	Other measure: Other measure	Implementation	Start date: 2007 Expected end date: 2016 Spatial scale: Local Source affected: Commercial and residential sources Indicator: N/A Target emissions reduction: N/A
York City Council_AP31	Include at least one additional street in the Foot streets Pedestrian Priority Zone by 31st December 2011	Reducing vehicle emissions	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2007 Expected end date: 2011 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
York City Council_AP32	Provide covered lockable cycle parking at all council-run schools by 31st December 2011	Increasing walking and cycling	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2007 Expected end date: 2011 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP33	Have active school travel plans in place at all York schools by 31st December 2010	Increasing walking and cycling	Traffic planning and management: Encouragement of shift of transport modes	Evaluation	Start date: 2006 Expected end date: 2011 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP34	Increase capacity at Askham Bar Park and Ride site by 250 spaces by 31st December 2007. [Current aspiration: Increased Park & Ride capacity. Askham Bar (550 spaces) and Poppleton Bar (600 spaces)]	Increasing use of public transport	Traffic planning and management: Improvement of public transport	Evaluation	Start date: 2013 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP35	Introduce bus priority measures on A19 by 31st Dec 2011	Increasing use of public transport	Traffic planning and management: Improvement of public transport	Evaluation	Start date: 2008 Expected end date: 2011 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP41	Open a new rail station at Haxby by 31st March 2009 (subject to exceptional scheme funding being received)	Increasing use of public transport	Traffic planning and management: Improvement of public transport	Planning	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP42	Undertake an alternative fuels and smaller vehicles awareness campaign by 31st December 2008	Reducing individual vehicle emissions	Public procurement: New vehicles, including low emission vehicles	Planning	Start date: 2015 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP43	Undertake a review of the taxi licensing process to identify ways in which it could be used to encourage the use of cleaner taxis and private hire vehicles	Reducing individual vehicle emissions	Permit systems and economic instruments: Introduction/increase of environment taxes	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A

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Measure code	Description	Focus	Classification	Status	Other information
York City Council_AP45	Complete a feasibility study into a Low Emission Zone for the city by 31st March 2007	Reducing individual vehicle emissions	Traffic planning and management: Low emission zones	Evaluation	Start date: 2012 Expected end date: 2013 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP47	Develop and adopt a lorry routeing strategy by 31st March 2008	Reducing emissions from HGVs	Traffic planning and management: Freight transport measure	Planning	Start date: 2016 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP48	Undertake a feasibility study into a transhipment centre for York by 31st December 2011	Reducing emissions from HGVs	Traffic planning and management: Freight transport measure	Planning	Start date: 2016 Expected end date: 2021 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP49	Work with bus companies to ensure that 89% of public service buses operated in York (including Park & Ride services) meet Euro III emission standards or better by 31st December 2011	Reducing emissions from buses	Public procurement: Other measure	Implementation	Start date: 2012 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP50	Complete a feasibility study into the introduction of a city centre electric shuttle service by 31st December 2006	Reducing emissions from buses	Public procurement: Other measure	Other	Start date: 2014 Expected end date: 2014 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AP54	Display energy information in all council buildings by 31st December 2011	Reducing emissions from buildings	Public procurement: Low emission stationary combustion sources	Implementation	Start date: 2006 Expected end date: 2015 Spatial scale: Local Source affected: Commercial and residential sources Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
York City Council_AQAP3 (1)	Clean Air Zone	Reducing emissions from buses	Traffic planning and management: Low emission zones	Planning	Start date: 2018 Expected end date: 2021 Spatial scale: Local Source affected: Transport Indicator: Number of electric buses operating in York Target emissions reduction: NOx 3803kg/y (27.6% reduction), PM10 126kg/y (10.3% reduction)
York City Council_AQAP3 (2)	Anti-idling measures	Reducing emissions from heavy diesel vehicles (buses, coaches, HGVS)	Traffic planning and management: Other measure	Planning	Start date: 2016 Expected end date: 2018 Spatial scale: Local Source affected: Transport Indicator: N/A Target emissions reduction: NOx 1526kg/y, PM10 36kg/y, CO2 46555kg/y, 17949litres of fuel saved (per year at 5 busiest locations in city centre)
York City Council_AQAP3 (3)	Further development of Eco-stars fleet recognition scheme	Reducing emissions from heavy diesel vehicles (buses, coaches, HGVS)	Other measure: Other measure	Implementation	Start date: 2012 Expected end date: 2016 Spatial scale: National Source affected: Transport Indicator: Number of members of ECO Stars Scheme Target emissions reduction: N/A
York City Council_AQAP3 (4)	Planning and delivery of CNG refuelling infrastructure in York	Reducing emissions from HGVs	Public procurement: Other measure	Planning	Start date: 2016 Expected end date: 2021 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A
York City Council_AQAP3 (5)	Reducing emissions from freight	Reducing emissions from HGVs	Traffic planning and management: Freight transport measure	Planning	Start date: 2016 Expected end date: 2021 Spatial scale: Whole town or city Source affected: Transport Indicator: N/A Target emissions reduction: N/A

Measure code	Description	Focus	Classification	Status	Other information
York City Council_AQAP3 (6)	Development and implementation of LES based planning guidance	Reducing emission from development	Other measure: Other measure	Preparation	Start date: 2015 Expected end date: 2016 Spatial scale: Whole town or city Source affected: Commercial and residential sources Indicator: Number of publically Accessible EV parking bays available in York (some deliverable via planning process/condition) Target emissions reduction: N/A
York City Council_AQAP3 (7)	Reducing emissions from taxis	Taxis	Permit systems and economic instruments: Introduction/increase of environment taxes	Implementation	Start date: 2013 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of registered taxis (private hire and hackney) which have emissions of less than 100g CO2 KM Target emissions reduction: N/A
York City Council_AQAP3 (8)	Planning and delivery of strategic EV charging network	Reducing emissions from cars and vans	Public procurement: New vehicles, including low emission vehicles	Implementation	Start date: 2013 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of publically Accessible EV parking bays available in York Target emissions reduction: N/A
York City Council_AQAP3 (9)	Reducing emissions from CYC fleet	Reducing emissions from cars and vans CYC Fleet	Other measure: Other measure	Implementation	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: Number of LGV and Cars in CYC fleet which have emissions of less than 100g CO2/km (including car club vehicles block-booked by CYC during office hours) Target emissions reduction: -
York City Council_AQAP3 (10)	Marketing and communications strategy	Impact of air quality on public health	Public information and Education: Internet	Planning	Start date: 2016 Expected end date: 2018 Spatial scale: Whole town or city Source affected: Transport Indicator: - Target emissions reduction: N/A

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Measure code	Description	Focus	Classification	Status	Other information
York City Council_AQAP3 (11)	Local incentives for low emission vehicles and alternative fuel use	Cars and vans, taxis	Public procurement: New vehicles, including low emission vehicles	Planning	Start date: 2015 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Transport Indicator: See AQAP3 - 6,7,8 Target emissions reduction: N/A
York City Council_AQAP3 (12)	Attracting low emission industries, business and jobs to York	Creation of more high-value / high productivity jobs in the green business sector	Other measure: Other measure	Planning	Start date: 2014 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Other, please specify Indicator: - Target emissions reduction: -
York City Council_AQAP3 (13)	Modal shift and network improvement measures	Congestion reduction	Traffic planning and management: Encouragement of shift of transport modes	Implementation	Start date: 2011 Expected end date: 2015 Spatial scale: Whole town or city Source affected: Transport Indicator: Annual Average NO2 concentration measured in city centre AQMA Target emissions reduction: -
York City Council_AQAP3 (14)	Other air quality improvement measures (non-transport sources)	Industrial and domestic smoke control	Public information and Education: Leaflets	Implementation	Start date: 2004 Expected end date: 2030 Spatial scale: Whole town or city Source affected: Commercial and residential sources Indicator: - Target emissions reduction: -
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