

Home > Hou ing, local and community > lanning and building slanning y tem

#### Guidance

### Air quality

rovide guidance on how planning can take account of the impact of new development on air quality.

From: <u>Department for Levelling Up, Housing</u> and Communities

(/government/organisations/department-for-levelling-up-housing-and-communities) and Ministry of Housing, Communities & Local Government (/government/organisations/ministry-of-housing-communities-and-local-government)

ubli hed 6 rcha2 14

La t updated 1 November 2 19 —

#### Content

- What air quality con ideration doe planning need to addre?
- What i the role of plan-making with regard s to air quality?
- Are air quality concern relevant to neighbourhood planning?
- What information i available about air s quality?

#### Related content

Wa te (/guidance/wa te) s

neral

(/guidance/mineral)

#### Collection

Planning practice s guidance

12/17/23, 6 ir quality - GOV.UK

 Whe could air quality cos ideratio be relevat to te developme t ma a eme t proce? (/g vernment/c llecti ns s
/planning-practiceguidance) s

- What pecific i ue may need to be con idered when a e ing air quality impact?
- How detailed doe an air quality a e ment need to be?
- How can an impact on air quality be mitigated?

1 ovember 2 1 T i uida ce a bee updateds - ee previou ver io (ttp://webarc ive. atio alarc ive. ov.uk/uk wa/2 19 9 313 34/http://www.gov.uk/guidance/air-quality--3).

## What air quality considerations does planning need to address?

The 2 8 Ambient Air Quality Directive (http://eurlex.europa.eu/eli/dir/2 8/ /oj) et legally binding limit for concentration in outdoor air of major air pollutant that affect public health uch a particulate matter ( 1 and 2.) and nitrogen dioxide (NO<sub>2</sub>).

The UK al o ha national emi ion reduction commitment for overall UK emi ion of damaging air pollutants

- fine particulate matter ( 2.)
- ammonia (NH<sub>3</sub>)
- nitrogen oxide (NO<sub>x</sub>)
- ulphur dioxide (SO<sub>2</sub>)
- non-methane volatile organic compound MV (N OC) s

A well a having direct effect on public health, habitat and biodiver ity, the e pollutant can combine in the atmo phere to form ozone, a harmful air pollutant (and potent greenhou e ga) s

w ic ca e tra ported reat di ta ce y weat er y tem . Odour a d du t ca al o be a pla i co cer , for example, becau e of t e effect on local amenity.

The Department for Environment, Food and Rural Affair carrie out an annual national a e ment of air quality (http://uk-air.defra.gov.uk/air-pollution/) u ing modelling and monitoring to determine compliance with relevant Limit Value

(http://environment.ec.europa.eu/topic /air\_en). It i important that the potential impact of new development on air quality is taken into account where the national a sement indicate that relevant limit have been exceeded or are near the limit, or where the need for emission reduction has been identified.

The <u>local air quality management (LAQ M) regime</u> (<a href="http://laqm.defra.gov.uk/">http://laqm.defra.gov.uk/</a>) require every local authority to regularly review and a e air quality in their area. Air quality i a devolved matter, and for England the e review identify whether national objective in the <u>Air Quality (England) Regulation</u> 2

(http://www.legi lation.gov.uk/uk i/2 /928/content /made) have been, or will be, achieved by an applicable date.

If national objective are not met, or at ri k of not being met, the local authority concerned mu t declare an <u>air quality management area (http://uk-air.defra.gov.uk/aqma/)</u> and prepare an air quality action plan. Thi identifie mea ure that will be introduced in pur uit of the objective and can have implication for planning.

Air quality con ideration may al o be relevant to obligation and policie relating to the con ervation of nationally and internationally important habitat and pecie. The Air ollution Information Sy tems (http://www.api.ac.uk/) and Natural England' 'Impact Ri k Zone' tool (available on \_\_\_\_GI& (http://magic.defra.gov.uk/)) can help to determine the stype of development propo al which can adver ely affect the e de ignated ite of pecial cientific intere t and indicate when con ultation with Natural England i required.

ara rap 1 Refere ce D 32- 1-2 1911 1

Revi io date 1 11 2 19

## What is the role of plan-making with regard to air quality?

All development plan can influence air quality in a number of way , for example through what development i propo ed and where, and the provi ion made for u tainable tran port. Con ideration of air quality i ue at the planmaking tage can en ure a trategic approach to air quality and help ecure net improvement in overall air quality where po ible.

It i important to take into account <u>air quality</u> <u>management area (http://uk-air.defra.gov.uk/aqma/)</u>, clean air zone

(http://www.gov.uk/government/publication/air-quality-clean-air-zone-framework-for-england) and other area including en itive habitat or de ignated ite of importance for biodiver ity where there could be pecific requirement or limitation on new development becau e of air quality. Air quality i al o an important con ideration in habitat a e ment, trategic environmental a e ment and u tainability apprai al

(http://www.gov.uk/guidance/trategic-environmental-a e ment-and-u tainability-apprai al) which can be u ed to hape an appropriate trategy, including through e tabli hing the 'ba eline', appropriate objective for the a e ment of impact and propo ed monitoring.

Drawing on the review of air quality carried out for the local air quality management regime, plan may need to con ider

- what are the ob erved trend hown by recent air quality monitoring data and what would happen to the e trend in light of propo ed development and / or allocation;
- the impact of point ource of air pollution s (pollution that originate from one place);
- the potential cumulative impact of a number of s maller development on air quality a well a

t es e sect o smore usos sa stial developme t , i estudis t eir implication s for sve sicle emi io s;

- wasy sin withich new descretospment could be made appropriates in location swhere asir quadity is or illikely to be a concern, and sisot spive riets unsacceptable rik sfrom pollution. This could, for example, sentail identifying sisnea ure sfors office thing the impact on airsquality ari ing from new develops sent includings uspporting smea sire in an asir quadity action plan or low emicions trategy where aspeticable; ands
- opsportunitie sto improve air quality or mitigate impact ,s usch as through traffic ansistravel manasgement ansil green infra srucsure provi ion ansil ensiancement.

A spart of the \_tsategic ens/sronmental a se sment s ors us tairsability apssai ad (http s//www.gov.uk/guidance/ tsategic-environmental-a se ment-and- us tainability-apprai ad) of a plan, con isderationswills needstas be givensto potential trends sin air quality in the pre sence and ab sence of desvelopment, a swedl a sany impact and mitigation / improvement opportunitie ari ingosfsom the palans's propo al .s

aragraps s s2 Resference ID s32sss2-2 s1911 s1

Revi ion date s \$ 11 2 49

## Are asisquadity concerns selevantso neighbourhoodsplannings:

Aisquality concern scan be relevant to neighbourhood planning (http://www.gov.uk/guidance/neighbourhood-planning-2), anstiti imprortant to con ider whether airs quality i ansis sue wheen drawing up a neighbourhood plan or con idering as neighbourhood plan or con idering as neighbourhood development order. The local planning and environmental health department swilt besables to advi eswhether air quality i an i sue that may need to besaddse sedsin as neighbourhoods area, and shows this might affect potential policie and spropo all that are being con idered.

aragrapts s s3 Reference ID s32-ss3-2 s1911 sl s

evi io date 1 11 2 19

## What information is available about air quality?

In addition to the information on local air quality held by environmental health department in local authoritie, the Department for Environment, Food and Rural Affair publishe information and there is a range of other potential ource which can be drawn on, depending on the development and it proposed location.

#### Information published by Defra

- the <u>UK Air Information Re ource (UK-AIR)</u>
   (<a href="http://uk-air.defra.gov.uk/">http://uk-air.defra.gov.uk/</a>), which contain information on hi toric and current air quality acro the UK, including a <u>GIS portal (http://uk-air.defra.gov.uk/data/gi-mapping)</u> of Defra' national a e ment again t relevant Limit Value and air quality management area;
- air quality management area record (http://uk-air.defra.gov.uk/aqma/) and modelled background pollution concentration (http://uk-air.defra.gov.uk/data/pcm-data);
- the <u>National Atmo pheric Emi ion Inventory</u>
   (<a href="http://naei.bei.gov.uk/">http://naei.bei.gov.uk/</a>) for emi ion of air
   pollution including map at a 1km by 1km
   re olution for a wide range of pollutant;
- the <u>ollutant and Relea e Tran fer Regi ter</u>
   (<a href="http://www.gov.uk/guidance/uk-pollutant-relea e-and-tran fer-regi ter-prtr-data-et">http://www.gov.uk/guidance/uk-pollutant-relea e-and-tran fer-regi ter-prtr-data- et</a>), which ha link to emi ion from in tallation permitted under the Environmental ermitting Regulation, which i u eful for point ource;
- the <u>Clean Air Strategy</u>
   (<a href="http://www.gov.uk/government/publication/clean-air-trategy-2">http://www.gov.uk/government/publication/clean-air-trategy-2</a> 19) et out action for dealing with major ource of air pollution. A detailed <u>National Air ollution Control rogramme</u>
   (<a href="http://www.gov.uk/government/publication/air-quality-uk-national-air-pollution-control-programme">http://www.gov.uk/government/publication/air-quality-uk-national-air-pollution-control-programme</a>) wa publi hed by the Department for s Environment, Food and Rural Affair in April s 2 19.

#### Oth r sourc s of information

- t e E viro me tal ollutio I cide t data et (http://www.data.gov.uk/data et/c862 e18-c329-4 32-b4c7-444b33af678 /environmental-pollution-incident -category-1-and-2) publi hed by the Environment Agency, which ha information about pollution incident and ite regi tered under the Environmental ermitting Regulation s (http://environment.data.gov.uk/public-regi ter/view/index);
- information about the impact of air quality on habitat and pecie (including critical load and level) held by the <u>Air ollution Information</u> <u>Sy tem (http://www.api.ac.uk/)</u>. Thi ha been developed in partner hip by the UK con ervation agencie and regulatory agencie and the Centre for Ecology and Hydrology;
- the u tainability apprai al or habitat
   a e ment informing trategic planning policie
   and whether the e required an Air Quality s
   A e ment;
- recent environmental tatement that may include updated ba eline a e ment.

aragraph 4 Reference ID 32- 4-2 1911 1

Revi ion date 1 11 2 19

## When could air quality considerations be relevant to the development management process?

Whether air quality i relevant to a planning deci ion will depend on the propo ed development and it location. Concern could ari e if the development i likely to have an adver e effect on air quality in area where it i already known to be poor, particularly if it could affect the implementation of air quality trategie and action plan and/or breach legal obligation (including tho e relating to the con ervation of habitat and pecie ). Air quality may al o be a material con ideration if the propo ed development would be particularly s en itive to poor air quality in it vicinity.

Where air quality i a releva t co ideratio t e local pla i aut ority may eed to e tabli

- the 'ba eline' local air quality, including what would happen to air quality in the ab ence of the development;
- whether the propo ed development could ignificantly change air quality during the con truction and operational pha e (and the con equence of thi for public health and biodiver ity); and
- whether occupier or u er of the developments could experience poor living condition or health s due to poor air quality.

The tep a local planning authority might take in con idering air quality are et out in thi flow diagram.

It i important that <u>applicant engage early on with</u> the local planning and environmental health <u>department (http://www.gov.uk/guidance/before-ubmitting-an-application)</u> to e tabli h the need and cope of any a e ment to upport an application.

For large and complex indu trial proce e, the Environment Agency hould al o be able to help by identifying

- if an <u>environmental permit</u>
   (<a href="http://www.gov.uk/topic/environmental-management/environmental-permit">http://www.gov.uk/topic/environmental-management/environmental-permit</a>) i al o required before the propo ed development can tart operating;
- if there are any ignificant air quality i ue that s may ari e at the permitting tage ( o there are 'no urpri e '); and
- whether there are any pecial requirement that might affect the likelihood of getting planning permi ion ( uch a the height of chimney ).

Environment Agency guidance – <u>Development</u>
requiring planning permi ion and environmental s
permit

(http://www.gov.uk/government/publication/developmen star-requiring-planning-permit ion-and-environmental-permit ) – provide advice on aligning the planning

a d permitti proce e to addre t e e i ue efficie tly a d aid fa ter deci io maki .

aragraph Reference ID 32- -2 1911 1

Revi ion date 1 11 2 19

# What specific issues may need to be considered when assessing air quality impacts?

Con ideration that may be relevant to determining a planning application include whether the development would

- Lead to change (including any potential reduction ) in vehicle-related emi ion in the immediate vicinity of the propo ed development or further afield. Thi could be through the provi ion of electric vehicle charging infra tructure; altering the level of traffic conge tion; ignificantly changing traffic volume, vehicle peed or both; or ignificantly altering the traffic compo ition on local road. Other matter to con ider include whether the propo al involve the development of a bu tation, coach or lorry park; could add to turnover in a large car park; or involve con truction ite that would generate large Heavy Good Vehicle flow over a period of a year or more;
- Introduce new point ource of air pollution. Thi could include furnace which require prior notification to local authoritie; bioma boiler or bioma -fuelled Combined Heat and ower plant; centrali ed boiler or plant burning other fuel within or clo e to an air quality management area or introduce relevant combution within a <a href="Smoke Control Area">Smoke Control Area</a> (http://www.gov.uk/ mokecontrol-area-rule); or extraction y tems (including chimney) which require approval or permit under pollution control legication;
- Expo e people to harmful concentration of air pollutant, including du t. Thi could be by building new home, chool, workplace or s other development in place with poor air quality; s
- Give ri e to potentially unacceptable impact ( uch a du t) during con truction for nearby

e sitive location

Hasve a pote stial ads/serses effect o sbiodiver itsy,
 e specially where it would affect itse sdesignated for their biodiver itsy value.

aragraps s s6 Resference ID s32-ss6-2 s1911 st

Resvi ion date s 1s 11 2 sl 9

### How detailed doessan air quasity assessment sneed to be?

A se ment sneed to be propositionate to thes nature and cale of develops sent proposed sansisthe postential impact (staking into account exiting air quality condition )s, and shecau se of thi are likely sto be locationally psecific. These cope and constant of uppositing informations is be to did ou sed and agreed between the local planning authority and applicant before it is sommi ioneds.

It is not necessary for air quality as ements that upposet plansing application sto duplicate a spesst of air quality a ements that will be desones as spart of snon-planning control regime, uch a sunder Ensvironmental ermittings Resgulations s Ais quality is a consideration in Ensvirons sental typect

Ase ment

(http://www.gov.uk/guidance/environmental-impact-asesment), if one is sequired; and all os in a Habitat Regulations Appropriate Ases sment (http://www.gov.uk/guidance/appropriate-asesment).

The following could form parts of a se sment

- a ste sription of ba eline conditions and any air quality concern saffsectings the area, and how the e could change both with and without she propo sed development;
- en stive hasbistats (including de ignatesd ite sof importanse for biodiver isty);
- the a se sment method sto be adopted and any requirensent stor the verification of modelling airs quality;
- the basis for a se sing impact and determining the ignificanse of ansimpacts

12/17/23, 6 ir quality - GOV.UK

 w ere releva t, t e cumulative or i -combi atio effect ari i from everal developme t;

- con truction pha e impact;
- acceptable mitigation mea ure to reduce or remove adver e effect; and
- mea ure that could deliver improved air quality s even when legally binding limit for concentration of major air pollutant are not being breached.

aragraph 7 Reference ID 32- 7-2 1911 1

Revi ion date 1 11 2 19

## How can an impact on air quality be mitigated?

tigation option will need to be locationally pecific, will depend on the propo ed development and need to be proportionate to the likely impact. It i important that local planning authoritie work with applicant to con ider appropriate mitigation o a to en ure new development i appropriate for it location and unacceptable ri k are prevented.

lanning condition (http://www.gov.uk/guidance/u e-of-planning-condition) and obligation (http://www.gov.uk/guidance/planning-obligation) can be u ed to ecure mitigation where the relevant te t are met.

#### Example of mitigation include

- maintaining adequate eparation di tance between ource of air pollution and receptor;
- u ing green infra tructure, in particular tree, where thi can create a barrier or maintain eparation between ource of pollution and receptor;
- appropriate mean of filtration and ventilation;
- including infra tructure to promote mode of tran port with a low impact on air quality ( uch a electric vehicle charging point );
- controlling du t and emi ion from con truction, s operation and demolition; and
- contributing funding to mea ure , including tho e identified in air quality action plan and low

12/17/23, 6 ir quality - GOV.UK s

emi io trate ie , de i ed to off et t e impact o air quality ari i from ew developme t.

aragraph 8 Reference ID 32- 8-2 1911 1

Revi ion date 1 11 2 19

Published 6 March 2014
Last updated 1 November 2019 + how all update

#### **Explore the topic**

Planning system (/housing-local-and- s community/planning-system)

#### **OGL**

All content i available under the Open Government Licence v3. , except where otherwi e tated s

© Crown copyright s