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Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on ambient air quality and cleaner air for Europe

(recast)

 $\{ SEC(2022) \ 542 \ final \} - \{ SWD(2022) \ 345 \ final \} - \{ SWD(2022) \ 542 \ final \} - \{ SWD(2022) \ 545 \ final \} \}$

EXPLANATORY MEMORANDUM

1. CONTEXT OF THE PROPOSAL

Clean air is essential to human health and sustaining the environment. Major improvements in air quality have been achieved in the European Union (EU) over the past three decades, thanks to joint efforts by the EU and national, regional and local authorities in the Member States to reduce the adverse impacts of air pollution¹. However, around 300 000 premature deaths a year (compared with up to 1 million a year in the early 1990s) and a significant number of noncommunicable diseases such as asthma, cardiovascular problems and lung cancer, are still attributed to air pollution (and especially to particulate matter, nitrogen dioxide and ozone)^{2;3}. Air pollution continues to be the number one environmental cause of early death in the EU. It disproportionally affects vulnerable groups such as children, elderly people and persons with pre-existing conditions, as well as socioeconomically disadvantaged groups⁴. There is also increasing evidence that air pollution may be associated with changes of the nervous system, such as dementia⁵.

In addition, air pollution threatens the environment through acidification, eutrophication, and ozone damage, causing damage to forests, ecosystems and crops. Eutrophication from deposition of nitrogen exceeds critical loads in two thirds of ecosystem areas across the EU, with significant impact on biodiversity.⁶ This pollution pressure can aggravate situations of nitrogen surplus via water pollution.

In November 2019, the Commission published its Fitness Check of the Ambient Air Quality Directives (Directives 2004/107/EC and 2008/50/EC)⁷. It concluded that the Directives have been *partially* effective in improving air quality and achieving air quality standards, but that not all their objectives have been met to date.

In December 2019, in the European Green Deal⁸, the European Commission committed to further improving air quality and to aligning EU air quality standards more closely with the recommendations of the World Health Organization (WHO). The WHO recommendations were most recently revised in September 2021⁹ and are subject to periodic scientific review, typically every 10 years. This objective of closer alignment with latest scientific findings was confirmed in the zero pollution action plan¹⁰, entailing a vision for 2050 to reduce air (and water and soil) pollution to levels no longer considered harmful to health and natural ecosystems, and that respect the boundaries our planet can cope with, thus creating a toxic-

¹ See, for example: EEA (2018), <u>Air Quality in Europe 2018 Report</u>. The median estimate for all datasets available pointed to 445 000 premature deaths across Europe per year in 2015, compared to a situation 25 years earlier when the median value was 960 000 deaths per year in 1990.

² As specified by the <u>WHO</u>, "[n]communicable diseases (NCDs), also known as chronic diseases, tend to be of long duration and are the result of a combination of genetic, physiological, environmental and behavioural factors. NCDs disproportionately affect people in low- and middle-income countries, where more than three quarters of global NCD deaths (31.4 million) occur."

³ See, for example: EEA (2021), <u>Air Quality in Europe 2021.</u>

⁴ See, for example, EEA (2018): Unequal exposure and unequal impacts: social vulnerability to air pollution, noise and extreme temperatures in Europe.

⁵ United States Environmental Protection Agency (2019 and 2022): <u>Integrated Science Assessment for</u> <u>Particulate Matter</u>; <u>Supplement to the 2019 Integrated Science Assessment for Particulate Matter</u>.

⁶ See, for example, The Second Clean Air Outlook, COM(2021) 3.

⁷ Directive <u>2004/107/EC</u> relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air and Directive <u>2008/50/EC</u> on ambient air quality and cleaner air for Europe, as amended by Commission Directive (EU) 2015/1480.

⁸ COM(2019) 640.

⁹ WHO (2021) <u>WHO Global Air Quality Guidelines</u>.

¹⁰ COM (2021) 400.

free environment. In addition, 2030 targets were introduced, two of them on air: to reduce the health impacts of air pollution (premature deaths) by more than 55%, and the share of EU ecosystems where air pollution threatens biodiversity by 25%. Stricter air quality standards would also contribute to the objectives of Europe's Beating Cancer Plan.¹¹ The Commission also announced in the European Green Deal that it would strengthen air quality monitoring, modelling and planning.

The Russian military aggression against Ukraine, which started in February 2022, led EU leaders to agree on the need to urgently accelerate the transition to clean energy production, with a view to reducing the EU's dependence on gas and other fossil fuels imported from Russia. On 18 May 2022 an ambitious <u>RePowerEU</u> package of measures was adopted, aimed amongst others at assisting Member States in speeding up the deployment of renewable energy production. If swiftly implemented as set out in the Commission Communication¹², this package may have significant co-benefits from an air pollution perspective.

The Ambient Air Quality Directives are part of a comprehensive clean air policy framework built on three main pillars. The first consists of the Ambient Air Quality Directives themselves, setting quality standards for concentration levels of 12 ambient air pollutants. The second is the Directive on the reduction of national emissions of certain atmospheric pollutants (the NEC Directive), which sets out commitments per Member State to reduce the emissions of key ambient air pollutants and their precursors, acting within the EU to achieve a joint reduction in transboundary pollution¹³. To this add international efforts, notably through the UNECE Air Convention, to reducing transboundary emissions from outside the EU¹⁴. The third pillar consists of legislation setting emissions standards for key sources of air pollution, such as road transport vehicles, domestic heating installations and industrial installations¹⁵.

The amount of pollution from such sources is also affected by other policies that influence key activities and sectors in areas such as transport, industry, energy and climate, and agriculture. A number of these policies are part of recent initiatives taken under the European Green Deal, such as the zero pollution action plan, the European Climate Law¹⁶ and the Fit for 55¹⁷ package with initiatives on energy efficiency and renewable energy, the methane strategy¹⁸, the sustainable and smart mobility strategy¹⁹, the related 2021 new urban mobility framework²⁰, the biodiversity strategy²¹ and the farm to fork initiative²². Furthermore,

¹¹ COM(2021)44. The Beating Cancer Plan confirms the need to reduce ambient air pollution, which causes, amongst others, lung cancer. The plan also includes a legislative proposal in 2022 to further reduce worker's exposure to asbestos, see COM(2022(489).

¹² COM(2022)230.

¹³ See Directive <u>2016/2284/EU</u>.

¹⁴ It should be noted that air pollutant emissions from outside EU Member States also play a role in background pollution in the EU. The UNECE Air Convention can play a key role on reducing these emissions, as well as capacity building and other support provided by the EU in the context of accession processes, in particular for Western Balkans countries.

¹⁵ Including Directives <u>2010/75/EU</u> (on industrial emissions), <u>2015/2193/EU</u> (on medium combustion plants), <u>98/70/EC</u> (on fuel quality), <u>2016/802/EU</u> (on sulphur content in liquid fuels), <u>2009/125/EC</u> (on eco-design), as well as EC Regulations <u>443/2009</u> and <u>510/2011</u> (on emission standards for vehicles), Regulations (EU) 2016/427, (EU) 2016/646, and (EU) 2017/1154 (on real driving emissions), and Regulation (EU) 2016/1628 (on non-road mobile machinery).

¹⁶ Regulation (EU) 2021/1119.

¹⁷ COM(2021) 550.

¹⁸ COM(2020) 663.

¹⁹ COM(2020) 789, including a Commission commitment to launch a dedicated study in 2023, which will map and clarify which digital and technical solutions would be available to enable more effective and userfriendly urban vehicles access restriction schemes (UVARs), including low emission zones (LEZ), while respecting the principle of subsidiarity (see also COM(2021) 811).

²⁰ COM(2021) 811.

significant reductions of pollutant emissions from cars, vans, lorries and buses are expected to result from the adoption and implementation of the forthcoming Euro 7 proposal (cf PLAN/2020/6308).

The revision of the Ambient Air Quality Directives would merge the Directives into one, and seek to:

- align EU air quality standards more closely with WHO recommendations
- further improve the legislative framework (e.g. in relation to penalties, and public information)
- better support local authorities in achieving cleaner air through strengthening air quality monitoring, modelling and plans.

The impact assessment shows that the benefits of the proposed revision for society far outweigh the costs. The main benefits expected are related to health (including reduced mortality and morbidity, reduced healthcare expenditure, reduced absence from work due to illness and increased productivity at work) and the environment (including reduced ozone-related crop yield losses).

1.1. Consistency with other Union policies

This initiative is part of the 2022 Commission work programme and a key action in the Zero Pollution Action Plan. Like all initiatives under the European Green Deal, it aims to ensure that objectives are achieved in the most effective and least burdensome way and comply with the 'do no significant harm' principle. The proposal contributes to implementing the zero pollution ambition and the targets of the Zero Pollution Action Plan for air quality to protection health and the environment. Many European Green Deal policies and priorities are of relevance for the successful implementation of the proposal, and can benefit from the increased ambition under the proposed Directive. These include:

- The Climate Law and the Fit for 55 package with their increased climate ambition will foster uptake of low- or zero emission technologies with co-benefits for air quality (such as non-combustible renewables, energy efficiency measures, electric mobility). Proposals on increased ambition include an increased ambition of the EU emission trading system (ETS), an increased ambition of the EU's Effort Sharing Regulation, and stricter CO₂ emission performance standards for cars and vans requiring all newly registered cars and vans to be zero-emission from 2035. Stricter air quality standards under this proposal will bring co-benefits for climate in the form of reduced greenhouse gas emissions, notably CO2 emissions, from fossil fuel burning, and reduction of black carbon (BC), a short-lived climate forcer (SLCF).
- RePowerEU proposes actions to rapidly reducing Europe's dependence on Russian fossil fuels, including an overall reduction of energy consumption, diversification of energy imports, substituting fossil fuels and accelerating the transition to renewable energy in power generation, industry, buildings and transport and smart investments. Speeding up these actions can benefit air quality, too.

²¹ COM(2020) 380.

²² COM(2020) 381.

- Increased uptake of non-combustible renewable energy sources will reduce reliance on fossil fuels and hence emissions of air pollutants, improving air quality. Initiatives promoting renewable energy sources include the 2021 proposal to revise the Renewable Energy Directive (RED II)²³, which puts forward more ambitious 2030 targets, as well as the 2022 Commission Communication on RePower EU with its emphasis on frontloading investments in renewables, notably solar power and wind, and in heat pumps, all of which are beneficial also for air quality.
- Increased ambition on energy efficiency and the introduction of a binding EU energy efficiency target through the proposal on a revised Energy Efficiency Directive²⁴ will decrease energy needs overall, including of fossil fuels and hence reduce emissions of air pollutants, improving air quality.
- Action under the Sustainable and Smart Mobility Strategy and the related the related 2021 new urban mobility framework supporting the move towards lower-emission and public transport will bring positive co-benefits for air quality. Some actions with particular relevance for air quality include more stringent air pollutant emissions standards for combustion engine vehicles (in the forthcoming **Euro 7** proposal)²⁵; the proposal for an **alternative fuels infrastructure** regulation²⁶: a comprehensive network of recharging and refuelling infrastructure is needed to facilitate the increased uptake of renewable and low-carbon fuels, including e-mobility, which would bring important air quality co-benefits.; proposals for **ReFuelEU Aviation** and **FuelEU Maritime** include measures that promote cleaner fuels, with a potential to reduce air pollutant emissions, and to improve air quality near ports and airports by requiring the use of on-shore power supply or zero-emission energy at berth for specific ship types and sustainable aviation fuels in aircrafts. In turn, the Ambient Air Quality Directives trigger increased action in urban areas to move to lower emission mobility, introduction of low-emission zones, increased uptake of public transport and active mobility to attain limit values.
- Greening the Common Agricultural Policy and the 'Farm to Fork' Strategy can help to reduce ammonia emissions from agriculture, for instance through promoting ammonia reduction measures via CAP Strategic Plans or improving nutrient management.
- Stricter air quality standards under this proposal will help to protect diversity in line with the Biodiversity Strategy, while policies that improve ecosystem health, such as the proposed Nature Restoration Law, can also deliver on clean air aspects.

1.2. Legal basis

The legal basis for the EU to act on air quality lies in Articles 191 and 192 of the <u>Treaty on</u> the <u>Functioning of the European Union</u> (TFEU), on the environment. These Articles empower the EU to act to preserve, protect, and improve the quality of the environment, protect human health and promote measures at international level to deal with regional or worldwide environmental problems. The same legal basis underpins the current Ambient Air Quality Directives. Given that this is an area of shared competence between the EU and the Member States, EU action must respect the subsidiarity principle.

²³ COM (2021) 557 final

²⁴ COM/2021/558 final

²⁵ COM (2022), <u>European vehicle emissions standards – Euro 7 for cars, vans, lorries and buses</u> (accessed 04.08.2022)

²⁶ COM(2021) 559 final

1.3. Subsidiarity and proportionality

The objectives of this initiative cannot be sufficiently achieved at Member State level alone. This is due, firstly, to the transboundary nature of air pollution: atmospheric modelling and measurements of air pollution demonstrate beyond doubt that the pollution emitted in one Member State contributes to measured pollution in other Member States²⁷. Once air pollutants are emitted or formed in the atmosphere, they can be transported over thousands of kilometres. The scale of the issue at hand requires EU-wide action to ensure that all Member States take measures to reduce the risks to the population in each Member State.

Secondly, the TFEU requires policies aiming for a high level of protection, taking into account the diversity of situations across the EU^{28} . The existing Directives established minimum air quality standards throughout the EU but leave the choice of measures to the Member States, so that they can adjust these measures to specific national, regional and local circumstances. This principle is maintained in the proposed Directive, which would merge the two existing Ambient Air Quality Directives into one.

Thirdly, fairness and equality must be ensured as regards the economic implications of air pollution control measures and the ambient air quality experienced by people across the EU.

1.4. Proportionality principle

The proposal complies with the proportionality principle as it

- merges two Directives, consolidating and simplifying the provisions of the existing Directives in one;
- leaves the details of implementation to the Member States who know national, regional and local circumstances and can therefore better choose the most cost-effective measures to attain air quality standards;
- delivers substantial health and economic benefits that are expected to clearly outweigh the costs of measures to be taken;
- requires more precise air quality assessment through specific monitoring and modelling requirement, which can be expected to foster more targeted and cost-effective measures to comply with air quality standards.

1.5. Choice of instruments

The proposed instrument remains a Directive, as previously. Other means would not be suitable, as the proposal is to continue setting objectives at EU level but leaving the choice of measures for compliance to the Member States, who can adjust these measures to different national, regional and local circumstances, i.e. taking into account the diversity and specificity of situations across the EU. Continuity in the choice of instrument also facilitates merging and simplifying the two existing Directives into a single instrument.

²⁷ See, for instance, the JRC <u>Urban PM2.5 Atlas</u> that analyses the sources of fine particulate matter pollution in 150 cities in the EU

²⁸ Articles 191.2 of the <u>Treaty on the Functioning of the European Union</u> (TFEU)

2. RESULTS OF EX- POST EVALUATIONS, STAKEHOLDER CONSULTATIONS AND IMPACT ASSESSMENTS

2.1. Evaluation/fitness check and related opinions of the Regulatory Scrutiny Board (RSB)

The Fitness Check on the Ambient Air Quality Directives²⁹ found that they had guided the setting up of representative high-quality monitoring of air quality, set clear air quality standards, and facilitated the exchange of reliable, objective, comparable information on air quality, including information for a wider public. They had been less successful in ensuring that sufficient action was taken to meet air quality standards and keep the duration of exceedances as short as possible. Nevertheless, the available evidence indicated that Ambient Air Quality Directives had contributed to a downward trend in air pollution and reduced the number and magnitude of exceedances. The conclusion, in the light of this partial delivery, was that the Ambient Air Quality Directives had been broadly fit for purpose – while at the same time pointing to scope for improvements in the existing framework to achieve good air quality across the EU. It emerged from the Fitness Check that additional guidance, or clearer requirements in the Ambient Air Quality Directives themselves, could help to make monitoring, modelling and the provisions for plans and measures more effective and efficient.

Air quality standards were found to have been instrumental in driving concentrations downward and reducing exceedance levels. Nevertheless, EU air quality standards are not fully aligned with well-established health recommendations³⁰, and there have been and continue to be substantial delays in taking appropriate and effective measures to meet the air quality standards.

Overall, the monitoring network was found by and large to comply with the provisions of the existing Ambient Air Quality Directives, and to ensure that reliable and representative air quality data are available. However, concerns were noted that the criteria on monitoring offer too much leeway and present some ambiguity for relevant authorities.

Following recommendations from the Regulatory Scrutiny Board, the Fitness Check provided further clarifications in several areas, including on differences between EU air quality standards and WHO recommendations, air quality trends and monitoring, effectiveness of legislation in achieving air quality standards, stakeholder feedback and public perception of air quality.

2.2. Stakeholder consultation

The stakeholder consultation aimed to collect supporting information, data, knowledge and views from a comprehensive range of stakeholders, to provide input for the different policy options for revising the Ambient Air Quality Directives, and to help assess the feasibility of implementing them.

The **open public consultation** ran for 12 weeks, as an online questionnaire with 13 introductory and 31 specific questions, hosted on the EU Survey tool. The questionnaire included issues to be covered in the impact assessment and gathered initial views on the ambition level and potential impacts of certain options for revision of the Ambient Air Quality Directives. A total of 934 responses were received, and 116 position papers were submitted. Open questions received between 11 and 406 individual responses – 124 on average. The responses came from 23 different Member States.

²⁹ <u>SWD(2019)427</u>

³⁰ The *WHO Air Quality Guidelines* have been revised since, in 2021.

The **targeted survey** was published on EU Survey in two parts (part 1 on policy area 1 'air quality standards' on 13 December 2021, and part 2 on policy areas 2 and 3 'governance; monitoring, modelling and air quality plans' on 13 January 2022), both with a deadline for contributions of 11 February 2022. The targeted survey sought in-depth views from organisations with an interest in or working with EU rules on air quality. Accordingly, the survey was sent out to targeted stakeholders, including relevant authorities at different levels of governance, private sector organisations, academics and civil society organisations in all EU Member States. Part 1 of the targeted stakeholder survey received in total 139 replies from 24 Member States. Part 2 of the survey received 93 replies from 22 Member States.

The **first stakeholder meeting** took place on 23 September 2021 and was attended by 315 external participants, either onsite or online, from 27 Member States. The aim of the first stakeholder meeting was to gather views on shortcomings identified in the current Ambient Air Quality Directives, as well as on the ambition level for the revised legislation.

The **second stakeholder meeting** on 4 April 2022 was attended by 257 external participants, either onsite or online, from 23 Member States. The aim of the meeting was to collect feedback from stakeholders for the completion of the impact assessment.

Targeted interviews were conducted to complement the other consultation activities, in particular with representatives of regional and national public authorities, civil society & NGOs, and academia & research. The main purpose of the interviews was to fill remaining information gaps identified from the evaluation of the targeted stakeholder survey. Consequently, the interviews focused on policy area 2, notably on the feasibility, means of implementation and impacts of the various options considered.

In addition, the impact assessment took into account: 30 **ad hoc contributions** (position papers, scientific studies and other documents) received from 25 different stakeholders; discussions at the third **EU Clean Air Forum** on 18 and 19 November 2021; feedback on the **inception impact assessment** from 63 stakeholders from 12 Member States; and the **Fit for Future Platform opinion** on the ambient air quality legislation.

Furthermore, the report on the final outcome of the **Conference on the Future of Europe** showed that citizens demand action to reduce air pollution³¹.

2.3. Use of expertise

The following areas of expertise have been used in developing this proposal: (1) analysis of links between air pollution and human health, (2) estimation of health impacts, including monetary quantification, (4) estimation of ecosystem impacts, (5) macroeconomic modelling, and (6) air quality assessment and management expertise.

This expertise has been gathered mainly through service contracts and grant agreements, with, among others, the WHO, the European Environment Agency, the Joint Research Centre and different consultants. All reports from experts and contracts have been routinely uploaded to the internet for public distribution.

2.4. Impact assessment and opinion of the Regulatory Scrutiny Board

The impact assessment analysed 19 policy options (comprising 69 policy measures) to address shortcomings identified in the current Ambient Air Quality Directives regarding

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Conference on the Future of Europe (2022): Report on the final outcome, <u>https://europa.eu/!3k9WY6</u>

environment and health, governance and enforcement, monitoring and assessment, as well as information and communication.

Each of these policy options was assessed with regards to its environmental, social and economic consequences, its consistency with other policy priorities and its expected benefit-to-cost ratio.

The preferred policy package is set out below.

- 1. On air quality standards:
 - a. setting clear EU air quality standards, defined as limit values for 2030, based on a political choice between policy options 'full alignment' (I-1), 'closer alignment' (I-2) and 'partial alignment' (I-3), with a limited number of temporary exceptions where these are clearly warranted;
 - b. pointing to a post-2030 perspective for a full alignment with the 2021 WHO Air Quality Guidelines, whilst getting on track towards alignment also with future WHO Guidelines to achieve the zero pollution vision by the year 2050;
 - c. a regular review mechanism to assure that the latest scientific understanding of air quality guides future decisions.
- 2. On governance and enforcement
 - a. updating the minimum requirements for air quality plans;
 - b. introducing limit values for air pollutants currently subject to target values, to enable more effective reduction of the concentrations of these pollutants;
 - c. further clarifying how exceedances of air quality standards need to be resolved, how to prevent them in advance, and when to update air quality plans;
 - d. further defining the type of measures that competent authorities must take to keep exceedance periods as short as possible, and expanding provisions on penalties in case of breaches of air quality standards;
 - e. strengthening the obligations for Member States to cooperate when transboundary pollution causes breaches of air quality standards;
 - f. improving enforceability of the Directives through new provisions on access to justice and compensation and an enhanced provision on penalties.
- 3. On air quality assessments
 - a. Further improving, simplifying and somewhat expanding air quality monitoring and assessment, including
 - i. monitoring pollutants of emerging concern;
 - ii. limiting relocations of air quality sampling points to those where limit values have been respected for at least three years;
 - iii. further clarifying and streamlining siting criteria for sampling points;
 - vi. updating the maximum measurement uncertainties allowed in line with the stricter air quality standards proposed.
 - b. making better use of air quality modelling
 - i. to detect breaches of air quality standards, inform air quality plans and the placement of sampling points;

- ii. Improving the quality and comparability of air quality modelling.
- 4. On public information about air quality
 - a. Hourly reporting of all available up-to-date air quality measurements for key pollutants, and making the information accessible to citizens with an air quality index;
 - b. Informing the public about possible health effects and recommending behaviour when air quality standards are breached.

Overall, the main benefits are expected to come in the form of reduced mortality and morbidity, reduced healthcare expenditure, reduced ozone-related crop yield losses, reduced absence from work due to illness and increased productivity at work.

The policy options regarding different levels of alignment with the WHO Air Quality Guidelines have environmental, economic, social and health implications. All three of these options, i.e. 'full alignment' (I-1), 'closer alignment' (I-2) and 'partial alignment' (I-3), would render significant health and environment benefits – albeit to varying degrees. However, for all three policy options, the impact assessment shows that **benefits for society far outweigh the costs**.

The annual costs and benefits have been calculated for 2030 as a central estimate, since this is the year in which the majority of new air quality standards would need to be achieved for the first time. **Mitigation costs** would already arise in preceding years to ensure the new standards were met in 2030, but after 2030 they are likely to decrease as one-off investments necessary to achieve the targets will have been made already.

Policy option I-3 ('partial alignment' with the 2021 WHO Air Quality Guidelines by 2030) has the highest benefit-to-cost ratio (between 10:1 and 28:1). Most air quality sampling points in the EU might be expected to meet the corresponding air quality standards with little additional effort. Under the central estimate, the net benefits amount to more than EUR 29 billion, compared to corresponding mitigation measure costs of EUR 3.3 billion in 2030.

For policy option I-2 ('closer alignment' with the 2021 WHO Air Quality Guidelines by 2030) the benefit-to-cost ratio is expected to be slightly lower (between 7.5:1 and 21:1) Some 6% of sampling points would not be expected to meet the corresponding air quality standards without additional effort at local level (or may need time extensions or exceptions). Under the central estimate, the net benefits amount to more than 36 billion EUR, i.e. 25% more than policy option I-3. The corresponding total mitigation measures and related administrative costs are estimates at EUR 5.7 billion in 2030.

Under policy option I-1 ('full alignment' with the 2021 WHO Air Quality Guidelines by 2030) the benefit-to-cost ratio also remains significantly positive (between 6:1 and 18:1). However, 71% of sampling points would not be expected to meet the corresponding air quality standards without additional effort at local level (and in many of these instances would not be able to meet these standards at all with technical feasible reductions only). Under the central estimate, the net benefits amount to more than EUR 38 billion, i.e. 5% more than policy option I-2. The corresponding mitigation costs are estimated at EUR 7 billion in 2030.

Administrative costs are in an estimated range of EUR 75 million to EUR 106 million a year in 2030. This includes the cost of drawing up air quality plans, of air quality assessments and additional sampling points. In particular, the cost of drawing up air quality plans is expected to decrease over time, as they resolve air quality exceedances and make themselves redundant. Similarly, air quality assessment regime requirements become less stringent as air quality improves, with an expected decrease in costs related to air quality monitoring –

however, the above estimates, including one-off investment, have been annualised in the calculations. Note all these costs are borne by **public authorities**.

It is important to note that the Ambient Air Quality Directives **impose no direct** administrative costs on consumers and businesses. The potential costs for them stem mainly from measures taken by Member State authorities to achieve the air quality standards set in the Directives. These are part of the overall mitigation/adjustment costs mentioned above.

The proposed merging of the current Ambient Air Quality Directives, 2008/50/EC and 2004/107/EC, into a single Directive is expected to reduce the administrative burden for public authorities, in particular relevant authorities in the Member States, by simplifying rules, enhancing consistency and clarity, and making implementation more efficient.

The impact assessment also checked **consistency with climate policy**, in particular the <u>European Climate Law</u>. Given the many common sources of greenhouse gas and pollutant emissions, the proposed revision of EU air quality standards will support climate targets, as measures to achieve clean air will lead to greenhouse gas emission reductions as well.

The assessed impacts of the proposal on air quality is also coherent with the zero pollution action plan, notably its 2030 target to reduce by more than 55% the health impacts (premature deaths) of air pollution, and, the 2050 vision of the Action Plan to reduce air, water and soil pollution to levels no longer considered harmful to health. There are also important synergies with policies that address pollutant emissions at source and that are part of the Action Plan, too. This concerns, for instance, the recent proposal for revising the Industrial Emissions Directive and the forthcoming proposal for Euro 7 emission standards for road vehicles, which will support the achievement of stricter air quality standards.

Following the opinion of the **Regulatory Scrutiny Board**, the impact assessment was enhanced with additional analysis and clarifications on (1) the interaction of the proposal with other initiatives such as the impact of the proposed revision of the Industrial Emissions Directive, (2) the different parameters analysed for different policy options, including their respective feasibility, and (3) the reasons for problems identified with the implementation of the current Ambient Air Quality Directives.

In parallel to the impact assessment undertaken for this proposal, a wider analysis of the clean air context and its future prospects has been carried out and will be published as a regular Clean Air Outlook report³² and as part of the Zero Pollution Monitoring and Outlook report planned for the end of 2022. The Third Clean Air Outlook will complement the analysis undertaken for the impact assessment for revision of the Directives, shedding light on additional elements such as: the regional impact of the measures proposed in the REPowerEU package on clean air; the positive prospect of achieving the zero pollution 2030 targets under the preferred policy package for revision of the Directives; and the effect of including non-technological (e.g. dietary) measures on clean air projections for 2030. These impacts are in addition to possible greater long-term positive impacts.

2.5. Regulatory fitness and simplification (REFIT)

In light of its better regulation agenda (and REFIT programme), the Commission is proposing to merge Directive 2008/50/EC and Directive 2004/107/EC into one Directive regulating all relevant air pollutants.

³² Previous editions of the Clean Air Outlook are available at <u>https://europa.eu/!Q7XXWT</u>.

When Directive 2008/50/EC was adopted, it replaced a number of legislative acts: Council Directive 96/62/EC on ambient air quality assessment and management, Council Directive 99/30/EC on limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air, Directive 2000/69/EC on limit values for benzene and carbon monoxide in ambient air, Directive 2002/3/EC on ozone in ambient air and Council Decision 97/101/EC establishing a reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within the Member States. They were merged into a single Directive in the interest of clarity, simplification and administrative efficiency. At the time, the European Parliament and the Council also stipulated that consideration should be given to merging Directive 2004/107/EC with Directive 2008/50/EC, once sufficient experience had been gained in relation to the implementation of Directive 2004/107/EC.

After more than a decade of implementing Directive 2008/50/EC and Directive 2004/107/EC in parallel, the revision of the Ambient Air Quality Directives provides an opportunity to incorporate the latest scientific knowledge and experience with implementation by merging them into a single Directive. This will consolidate air quality legislation, while simplifying rules applying to relevant authorities, enhancing overall consistency and clarity, and thus making implementation more efficient.

The proposal also streamlines and simplifies a number of provisions, notably in relation to air quality monitoring of different air pollutants, types of air quality standards for these pollutants, and the requirements that result from them, such as the development of air quality plans.

The suggestions by the Fit for Future Platform's 12 November 2021 opinion on "Ambient air quality legislation"³³ was considered throughout the impact assessment, including for instance recommendations related to air quality standards, implementation, monitoring, merging the existing directives into one, coherence with related policies.

2.6. Fundamental rights

The proposed directive respects fundamental rights and observes the principles recognised in particular by the EU Charter of Fundamental Rights. This proposal sets out to avoid, prevent and reduce harmful effects on human health and the environment from air pollution, in line with Article 191(1) of the TFEU. It thus seeks to integrate into EU policies a high level of environmental protection and improvement in the quality of the environment in accordance with the principle of sustainable development laid down in Article 37 of the EU Charter of Fundamental Rights. It also puts into concrete terms the obligation to protect the right to life and to the integrity of the person laid down in Articles 2 and 3 of the Charter.

Further, it contributes to the right to an effective remedy before a tribunal as laid down in Article 47 of the Charter, in relation to the protection of human health, through detailed provisions on access to justice, compensation and penalties.

3. BUDGETARY IMPLICATIONS

The financial statement related to the budgetary implications and the human and administrative resources required for this proposal are integrated in the legislative financial

³³ COM (2022), <u>Fit for Future Platform</u> Opinion reference: 2021/SBGR1/04

statement for the zero pollution package which is presented as part of the proposal for revision of the lists of pollutants affecting surface and groundwaters.

The proposal will have budgetary implications for the Commission, the Joint Research Centre (JRC) and the European Environment Agency (EEA) in terms of human and administrative resources required.

The Commission's implementation and enforcement workload will slightly increase as a result of listing new standards and more substances to be monitored, and the need to review and update existing guidance and implementing decisions, as well as draft new guidance documents.

The Commission will furthermore need increased support from the JRC to strengthen air quality monitoring and modelling implementation. Specifically, this will involve drafting guidance, chairing two key expert networks, and drawing up standards relating to air quality monitoring and modelling in collaboration with the European Committee for Standardization (CEN). This scientific support would be obtained through the launch of administrative arrangements.

The EEA will have an increased workload as a result of: the need to expand infrastructure and support continuous reporting, which would be extended to include air pollutants of emerging concern as well as average exposure reduction obligations covering pollutants PM_{2.5} and NO₂; the need to expand reporting infrastructure for up-to-date information from additional sampling points, modelling data and air quality plans; the need to increase support for sound assessments of air quality data reported; and the need to strengthen the links between the analysis and support for policies on air pollution, climate change, human and ecosystem health. This will require one new additional full-time-equivalent staff and two redeployments, on top of the current team of EEA colleagues already supporting EU clean air policy.

4. **OTHER ELEMENTS**

The current framework established under the Ambient Air Quality Directives already offers high-quality representative monitoring of air quality, as demonstrated in the <u>Fitness Check</u> for the Directives. Across the EU, Member States have established an air quality monitoring network with some 16 000 sampling points for specific pollutants (many of which are grouped together at more than 4 000 monitoring stations), with sampling based on common criteria defined by the Directives. Overall, the monitoring network largely complies with the Directives and ensures that reliable and representative air quality data are available. The monitoring framework will be further improved by this proposal, as explained in more detail below.

The existing provisions on reporting set out in <u>Commission Decision 2011/850</u> guided the development of an effective and efficient digital e-reporting system, hosted by the EEA³⁴. In addition, this proposal includes monitoring of pollutants of emerging concern. This will make it possible to observe several air pollutants for which no harmonised EU-wide air quality monitoring yet exists.

Improvements to air quality monitoring, modelling and assessment regimes are also part of this proposal. They will provide additional comparable and objective information making it possible to regularly monitor and evaluate the development of air quality in the EU. Along with more precise requirements for information to be included in air quality plans, as

³⁴ See also fitness check on monitoring and reporting in environmental policy, <u>SWD(2017) 230 final</u>.

provided for in this proposal, this will enable the effectiveness of specific (often local) air quality measures to be kept under constant review. Clearer specific requirements on public information will make it easier and faster for the public to access the outcomes of monitoring and evaluation of air quality data and related policy action.

All this will usefully inform future evaluations of a revised Ambient Air Quality Directive.

5. DETAILED EXPLANATION OF THE SPECIFIC PROVISIONS OF THE PROPOSAL:

Amendments made through the proposal to **merge the current Ambient Air Quality Directives** (2008/50/EC and 2004/107/EC) aim to consolidate and simplify the legislation.

The following explanations focus on changes compared to the current Directives. The numbering of articles cited corresponds to the proposal.

Article 1 introduces the 2050 zero pollution objective for air quality to ensure that, by 2050, air quality is so improved that pollution is no longer considered harmful to human health and the environment.

Article 3 provides for a regular review of scientific evidence to check whether the air quality standards in force are still sufficient to protect human health and the environment, and whether additional air pollutants should be regulated. The review will inform the development of plans for alignment with the WHO Air Quality Guidelines by 2050 based on a regular review mechanism to take into account the latest scientific understanding.

Article 4 include updates and adds new definitions of elements which are changed or added to the Directive.

Article 5 requires that Member States ensure the accuracy of model applications, with a view to enabling increased use of modelling for air quality assessment, and better use of the modelling.

Article 7 simplifies the rules for assessment thresholds. The thresholds inform which air quality assessment techniques should apply at different levels of pollution. The proposal replaces the current lower and upper threshold with a single assessment threshold per pollutant.

Article 8 ensures that ambient air quality must be monitored using fixed sampling points wherever air pollution levels exceed WHO recommendations. When limit values or the ozone target value of this Directive are exceeded, air quality must also be assessed with modelling applications. Modelling will also help to detect possible additional locations where limit values or the ozone target value are exceeded. This aims to make use of the advances in modelling applications to guide effective, targeted and cost-efficient air quality measures with a view to ending breaches of air quality standards as soon as possible.

Article 9 updates and clarifies rules for the number and location of sampling points, including stricter rules for relocating sampling points. The revised rules also bring together and simplify sampling point requirements for different air pollutants and air quality standards, currently spread out across the Directives.

Article 10 introduces monitoring supersites and regulates their number and location. These monitoring supersites combine multiple sampling points to gather long-term data on air pollutants covered by this Directive, as well as on air pollutants of emerging concern and other relevant metrics. Combining multiple sampling points in a supersite instead of placing

them separately may in some instances save costs. Introducing additional sampling points for unregulated air pollutants of emerging concern, such as ultrafine particles (UFP), black carbon (BC), ammonia (NH₃) or the oxidative potential of particulate matter, will support scientific understanding of their effects on health and the environment. Where applicable, Member States can set up common monitoring supersites, which can reduce costs.

Article 11 clarifies data quality objectives for air quality measurement and introduces quality objectives for modelling. A new requirement is added that requires all data to be reported and to be used for compliance assessment purposes, even if they do not meet the data quality objectives.

Provisions on assessing ozone are integrated with provisions on assessing other pollutants to simplify and streamline the provisions.

Article 12 brings together existing requirements on keeping air pollutant levels below limit values and introduces new requirements for average exposure concentrations.

Article 13 aligns EU air quality standards more closely with 2021 WHO recommendations, taking into account feasibility and cost-effectiveness analysed in the impact assessment accompanying this proposal. In addition, limit values are introduced for all air pollutants currently subject to target values, except for ozone (O₃). Experience with the current Directives shows that this will increase effectiveness in bringing down air pollutant concentrations. Ozone is exempted from this change due to the complex characteristics of its formation in the atmosphere which complicate the task of assessing the feasibility of complying with strict limit values. The revised limit and target values will enter into force in 2030, balancing the need for swift improvement with the need to ensure sufficient lead-time and for coordination with key related policies that will bear results in 2030, such as the Fit for 55 package of climate change mitigation policies. To put the EU on a trajectory that will enable it to realise the zero pollution vision for air in 2050, a new provision is introduced requiring a reduction in public's average exposure to fine particulate matter (PM_{2.5}) and nitrogen dioxide (NO₂) at regional level (NUTS 1 territorial units), towards the levels recommended by the WHO. This adds to the obligation to meet limit and target values, applicable in air quality zones. To inform clean air policy at EU level, Member States are required to notify the Commission swiftly if they introduce more stringent air quality standards than the EU standards.

Article 14 is shortened, as sampling point requirements are the same as those under Article 7.

The content of several articles (former Articles 15-18 of Directive 2008/50/EC) on air quality standards and related requirements for fine particulate matter ($PM_{2.5}$) and ozone (O_3) is integrated with standards for other pollutants in Articles 12, 13 and 23, and requirements on sampling points are integrated into Article 7.

Article 15 introduces alert thresholds for short-term measures on peak pollution from particulate matter (PM_{10} and $PM_{2.5}$), in addition to the existing alert thresholds for nitrogen dioxide (NO_2) and sulphur dioxide (SO_2), given the significant health impacts of particulate matter pollution.

Article 16 extends the rules on deducting natural source contributions to exceedances of air quality standards to cover exceedances of average exposure reduction obligations. Air pollution from natural sources such as Saharan dust cannot be influenced by air quality management. This is why Articles 19 and 20 ensure that air quality exceedances resulting from these sources will not count as non-compliance with air quality standards including average exposure reduction obligations, and not require air quality plans.

Article 17 on deduction of winter-sanding and winter-salting is extended to include fine particulate matter ($PM_{2.5}$). Winter-sanding and winter-salting are important for road safety, even though resuspension of particles from these measures can also contribute to air pollution with particulate matter of different sizes. Air quality exceedances resulting from these sources only will not result in a requirement to establish air quality plans under Article 19.

Article 18 on postponing deadlines to attain limit values for particulate matter (PM_{10} and $PM_{2.5}$) and nitrogen dioxide (NO_2) lays down additional prerequisites for postponement, in order to increase the efficiency of air quality measures taken towards respecting the limit values. For example, air quality plans must outline how additional funding will be sought to achieve compliance faster, and how the public will be informed about the consequences of the postponement for human health and the environment. In addition, it will only be possible to postpone attainment of a limit value if the average exposure reduction obligation for the relevant air pollutant has been complied with for at least 3 years before the postponement starts. This is to ensure that postponement is granted only for cases of localised exceedances of limit values due to site-specific conditions, and will not be used to delay local, regional or national air quality measures, be it at local, regional or national measures.

Article 19 increases the effectiveness of air quality plans to ensure compliance with air quality standards as soon as possible. This will be achieved by (a) requiring air quality plans to be drawn up before air quality standards enter into force in cases of non-compliance prior to 2030, (b) specifying that air quality plans must aim to keep the exceedance period as short as possible, and in any case no longer than 3 years for limit values, and (c) mandating regular updates of air quality plans if they do not achieve compliance.

Air quality plans are made mandatory when limit values, the ozone target value or average exposure reduction obligations are exceeded. The plans will also be mandatory when it is anticipated that these standards will be exceeded. This will help to ensure that periods of exceedance are kept as short as possible. It will also foster synergies between managing different air pollutants, and between measures to attain different standards. For instance, measures to attain the average exposure reduction obligation for fine particulate matter (PM_{2.5}) will also support the attainment of the PM_{2.5} limit value.

A final amendment will require that air quality plans analyse the risk of exceeding alert thresholds. This will lead to greater integration of short-term action plans – required to address alert threshold exceedances – with longer-term action plans, saving resources and improving the measures taken.

Article 20 requires Member States to demonstrate why a short-term action plan would not be effective if they decide not to adopt one despite a risk of exceeding the ozone alert threshold. The article also makes public consultation on short-term action plans mandatory to ensure all relevant information is taken into account for their design.

Article 21 further clarifies and strengthens the arrangements for cooperation between Member States to address breaches of air quality standards due to transboundary air pollution, notably requiring swift exchange of information between Member States and with the Commission.

Article 22 improves public awareness of air pollution by obliging Member States to establish an air quality index providing hourly air quality updates for the most harmful air pollutants.

Article 23 stipulates that the Commission will adopt implementing acts on reporting information about air quality data and management. These implementing acts will be brought into line with the revised Directive.

Article 27 establishes detailed provisions to ensure access to justice for those who want to challenge the implementation of this Directive, such as when an air quality plan has not been established despite exceedances of relevant air quality standards.

Article 28 aims to establish an effective right for people to be compensated where damage to their health has occurred wholly or partially as a result of a violation of rules prescribed on limit values, air quality plans, short-term action plans or in relation to transboundary pollution. People affected have the right to claim and obtain compensation for that damage. This includes the possibility for collective actions.

Article 29 is amended to clarify in more detail how Member States need to establish effective, proportionate and dissuasive penalties for those who violate the measures adopted in the Member State to implement this Directive, including dissuasive financial penalties, without prejudice to Directive 2008/99/EC on the protection of the environment through criminal law³⁵.

Annex I, in conjunction with Articles 13 and 15, brings together air quality standards for different pollutants, setting: (a) new limit values for the protection of human health; (b) updated ozone target values and long-term objectives; (c) new alert thresholds for particulate matter (PM_{10} and $PM_{2.5}$); and (d) average exposure reduction obligations for fine particulate matter ($PM_{2.5}$) and nitrogen dioxide (NO_2) towards an average exposure concentration obligation at the level of WHO recommendations.

Annex II sets the assessment thresholds for air quality monitoring and modelling.

Annex III, in conjunction with Article 9, simplifies criteria for determining minimum numbers of sampling points for fixed measurement, and brings together these criteria for all air pollutants subject to different air quality standards (limit values, ozone target value, average exposure reduction obligations, alert thresholds and critical levels).

Annex IV brings together criteria for the location of sampling points for all air pollutants subject to different air quality standards.

Annex V updates and strengthens the data quality and uncertainty requirements for fixed and indicative air quality measurements, modelling, and objective estimation to ensure precise assessment in light of stricter air quality standards proposed and technical advances since the adoption of the existing Directives.

Annex VI updates rules for the methods that must be used for assessing the concentrations of different pollutants in ambient air, as well as for assessing the rate at which certain pollutants enter ecosystems.

Annex VII introduces monitoring of ultrafine particles (UFP) at locations where high concentrations of UFP are likely, such as at or close to airports, ports, roads, industrial sites or domestic heating. Together with the information from monitoring UFP background concentrations at monitoring supersites required by Article 10, this will help to understand the contribution of different sources to UFP concentrations. Annex VII also updates the list of volatile organic compounds (VOC) recommended for measurements that aim to improve the understanding of ozone formation and management.

³⁵ Directive 2008/99/EC of the European Parliament and of the Council of 19 November 2008 on the protection of the environment through criminal law; OJ L 328, 6.12.2008, p. 28-37. The Commission adopted a proposal 15/12/2021 to replace Directive 2008/99/EC: COM(2021) 851 final 'Proposal for a Directive of the European Parliament and of the Council on the protection of the environment through criminal law and replacing Directive 2008/99/EC.

Annex VIII, in conjunction with Article 19, brings together requirements for air quality plans that address exceedances of limit values, the ozone target value and average exposure reduction obligations. Streamlining these requirements will foster synergies between managing different air pollutants and attaining different air quality standards. Annex VIII also requires that air quality plans contain a more precise analysis of the expected effects of air quality measures. This will help make air quality plans more effective.

Annex IX enhances the air quality information to be provided to the public, including obligatory hourly updates for fixed measurements of key air pollutants, as well as up-to-date modelling results where those are available.

◆ 2008/50 (adapted) 2022/0347 (COD)

Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on ambient air quality and cleaner air for Europe

(recast)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty \boxtimes on the functioning of the European Union \bigotimes establishing the European Community, and in particular Article \boxtimes 192 \bigotimes 175 thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national parliaments,

Having regard to the opinion of the European Economic and Social Committee³⁶,

Having regard to the opinion of the Committee of the Regions³⁷,

Acting in accordance with the ordinary legislative procedure,

Whereas:

[↓] new

- (1) Directive No 2004/107/EC of the European Parliament and of the Council³⁸ and Directive 2008/50/EC of the European Parliament and of the Council³⁹ have been substantially amended. Since further amendments are to be made, those Directives should be recast in the interest of clarity.
- (2) In December 2019, the European Commission set out in its Communication 'The European Green Deal'⁴⁰ an ambitious roadmap to transform the Union into a fair and prosperous society, with a modern, resource-efficient and competitive economy, aiming to protect, conserve and enhance the Union's natural capital, and to protect the health and well-being of citizens from environment-related risks and impacts. Specifically on clean air, the European Green Deal committed to further improving air

³⁶ OJ C [...], [...], p. [...].

³⁷ OJ C [...], [...], p. [...].

³⁸ Directive 2004/107/EC of the European Parliament and of the Council of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air (OJ L 023, 26.1.2005, p. 3).

³⁹ Directive 2008/50/EC of the European Parliament and of the Council of 21 May 2008 on ambient air quality and cleaner air for Europe (OJ L 152, 11.6.2008, p. 1).

⁴⁰ Communication from the Commission to the European Parliament, the European Council, the Council, the European Economic and Social Committee and the Committee of the Regions The European Green Deal; COM(2019) 640 final.

quality and to aligning EU air quality standards more closely with the recommendations of the World Health Organization (WHO). It also announced a strengthening of provisions on air quality monitoring, modelling and planning.

- (3) In May 2021, the Commission adopted a Communication establishing a 'Zero Pollution Action Plan'⁴¹ that inter alia addresses pollution aspects of the European Green Deal and further commits to reducing, by 2030, the health impact of air pollution by more than 55% and the EU ecosystems where air pollution threatens biodiversity by 25%.
- (4) The Zero Pollution Action Plan also sets out a vision for the year 2050, where air pollution is reduced to levels no longer considered harmful to health and natural ecosystems. To this end, a staged approach towards setting current and future EU air quality standards should be pursued, establishing intermediate air quality standards for the year 2030 and beyond, and developing a perspective for alignment with the WHO Air Quality Guidelines by the year 2050 at the latest based on a regular review mechanism to take into account the latest scientific understanding. Given the links between pollution reduction and decarbonisation, the long-term objective to achieve the zero pollution ambition should be pursued hand in hand with reduction of greenhouse gas emissions as set by Regulation (EU) 2021/1119 of the European Parliament and of the Council⁴².
- (5) In taking the relevant measures at Union and national level to achieve the zero pollution objective for air pollution, Member States, the European Parliament, the Council and the Commission should be guided by the 'precautionary principle' and the 'polluter pays principle' established in the Treaty on the Functioning of the European Union, and the 'do no harm' principle of the European Green Deal. They should, inter alia, take into account: the contribution of improved air quality to public health, the quality of the environment, the well-being of citizens, the prosperity of society, employment and the competitiveness of the economy; the energy transition, strengthened energy security and the tackling of energy poverty; food security and affordability; the development of sustainable and smart mobility and transport solutions; the impact of behavioural changes; fairness and solidarity across and within Member States, in light of their economic capability, national circumstances, such as the specificities of islands, and the need for convergence over time; the need to make the transition just and socially fair through appropriate education and training programmes; best available and most recent scientific evidence, in particular the findings reported by the WHO; the need to integrate air pollution related risks into investment and planning decisions; cost-effectiveness and technological neutrality in achieving air pollutant emission reductions; and progression over time in environmental integrity and level of ambition.
- (6) The 'Eighth General Union Environment Action Programme to 2030' adopted by Decision (EU) 2022/591 of the European Parliament and of the Council on 6 April 2022⁴³ establishes the objective to achieve a non-toxic environment protecting the

⁴¹ Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions, Pathway to a Healthy Planet for All EU Action Plan: 'Towards Zero Pollution for Air, Water and Soil' COM(2021) 400 final.

Regulation (EU) 2021/1119 of the European Parliament and of the Council of 30 June 2021 establishing the framework for achieving climate neutrality and amending Regulations (EC) No 401/2009 and (EU) 2018/1999 ('European Climate Law') (OJ L 243, 9.7.2021, p. 1–17).

⁴³ Decision (EU) 2022/591 of the European Parliament and of the Council of 6 April 2022 on a General Union Environment Action Programme to 2030 (OJ L 114, 12.4.2022, p. 22–36).

health and well-being of people, animals and ecosystems from environment-related risks and negative impacts, and, for that purpose, stipulates that further improvement of monitoring methods, better information to the public and access to justice are needed. This guides the objectives set in this Directive.

(7) The Commission should regularly review the scientific evidence related to pollutants, their effects on human health and the environment and technological development. Based on the review, the Commission should assess whether applicable air quality standards are still appropriate to achieve the objectives of this Directive. The first review should be carried out by 31/12/2028 to assess whether air quality standards need to be updated based on the latest scientific information.

▶ 2008/50 recital 5 (adapted)

(8) A common approach to the assessment of ambient air quality should be followed according to ∞ by applying ∞ common assessment criteria. When assessing ambient air quality, account should be taken of the size of populations and ecosystems exposed to air pollution. It is therefore appropriate to classify the territory of each Member State into zones or agglomerations reflecting the population density.

(9) Fixed measurements should be mandatory in zones and agglomerations where the long-term objectives for ozone or the assessment thresholds for other pollutants are exceeded. Information from fixed measurements may be supplemented by modelling techniques and/or indicative measurements to ⊠ Modelling applications and indicative measurements, in addition to information from fixed measurements, $\langle X \rangle$ enable point data to be interpreted in terms of geographical distribution of concentrations. The use of ⊠ such ⊠ supplementary techniques of assessment should also allow for reduction of the required minimum number of fixed sampling points. \ominus in zones where assessment thresholds are not exceeded. In zones where limit values or target values are exceeded, both fixed measurements and the use of modelling applications should be mandatory. Additional monitoring of background concentrations and deposition of pollutants in ambient air should also be carried out to enable better understanding of pollution levels and dispersion \Leftarrow .

✓ 2008/50 recital 6 (adapted)
 ⇒ new

(10) Where possible <u>Mm</u>odelling techniques ⇒ applications ⇔ should be applied to enable point data to be interpreted in terms of geographical distribution of concentration ⇒, to help to detect breaches of air quality standards, and to inform air quality plans and the placement of sampling points ⇔. This could serve as a basis for calculating the collective exposure of the population living in the area.

 \Rightarrow In addition to the requirements for air quality monitoring defined in this Directive, for monitoring purposes, Member States are encouraged to exploit information products and supplementary tools (e.g. regular evaluation and quality assessment reports, policy online applications), provided by the Earth Observation component of

the EU Space Programme, in particular the Copernicus Atmosphere Monitoring Service (CAMS). <

[₽] new

(11) It is important that pollutants of emerging concern, such as ultrafine particles, black carbon and elemental carbon, as well as ammonia and the oxidative potential of particulate matter, be monitored in order to support scientific understanding of their effects on health and the environment, as recommended by the WHO.

(12) Detailed measurements of fine particulate matter at rural background locations should be made in order to understand better the impacts of this pollutant and to develop appropriate policies. Such measurements should be made in a manner consistent with those of the cooperative programme for monitoring and evaluation of the long range transmission of air pollutants in Europe (EMEP) set up under the 1979 ▷ United Nations Economic Commission for Europe (UNECE) < Convention on Long-range Transboundary Air Pollution approved by Council Decision 81/462/EEC of 11 June 1981⁴⁴ ⇒ and its Protocols, including the Protocol to Abate Acidification, Eutrophication and Ground-level Ozone of 1999, which was revised in 2012 < .</p>

 \checkmark 2008/50 recital 7 (adapted)

(13) In order to ensure that the information collected on air pollution is sufficiently representative and comparable across the \boxtimes Union \bigotimes Community, it is important that standardised measurement techniques and common criteria for the number and location of measuring stations are used for the assessment of ambient air quality. Techniques other than measurements can be used to assess ambient air quality and it is therefore necessary to define criteria for the use and required accuracy of such techniques.

✓ 2004/107 recital 12
 ⇒ new

(14) Standardised accurate measurement techniques and common criteria for the location of measuring stations are important elements in assessing ambient air quality so that the information obtained is comparable throughout the Community. Providing reference measurement methods is acknowledged to be an important issue. The Commission has already mandated work on the preparation of CEN standards for the measurement of ⇒ polycyclic aromatic hydrocarbons and for the evaluation of the performance of sensor systems for the determination of concentrations of gaseous pollutants and particulate matter in ambient air ⇔ those constituents in ambient air where target values are defined (arsenic, cadmium, nickel and benzo(a)pyrene) as well as for the deposition of heavy metals with a view to their early development and adoption. In the

⁴⁴ Council Decision 81/462/EEC of 11 June 1981 on the conclusion of the Convention on long-range transboundary air pollution (OJ L 171, 27.6.1981, p. 11).

absence of CEN standard methods, the use of international or national standard reference measurement methods should be permitted.

(15) In order to protect human health and the environment as a whole, it is particularly important to combat emissions of pollutants at source and to identify and implement the most effective emission reduction measures at local, national and ⊠ Union $\langle X |$ Community level \Rightarrow , in particular when it comes to emissions from agriculture, industries, transport and energy generation \Leftrightarrow . Therefore, emissions of harmful air pollutants should be avoided, prevented or reduced and appropriate \Rightarrow standards \Leftrightarrow objectives set for ambient air quality taking into account relevant World Health Organisation \boxtimes Organization \bigotimes standards, guidelines and programmes.

> ↓ 2004/107 recital 3 (adapted) \Rightarrow new

(16) Scientific evidence shows that ⇒ sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter, lead, benzene, carbon monoxide, ⇔ arsenic, cadmium, nickel_aand some polycyclic aromatic hydrocarbons ⇒ and ozone ⇔ are ⇒ responsible for significant negative impacts on human health ⇔ human genotoxic carcinogens and that there is no identifiable threshold below which these substances do not pose a risk to human health. Impact on human health and the environment occurs via concentrations in ambient air and via deposition. With a view to cost-effectiveness, ambient air concentrations of arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons, which would not pose a significant risk to human health, cannot be achieved in specific areas.

↓ 2004/107 recital 11 (adapted) ⇒ new

(17)—The effects of ⇒ lead, ⇔ arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons on human health, including via the food chain, and the environment as a whole, ⊠ also ⊠ occur through concentrations in ambient air and via deposition; the accumulation of these substances in soils and the protection of ground water should be taken into account. In order to facilitate review of this Directive in 2010, the Commission and the Member States should consider promoting research into the effects of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons on human health and the environment, particularly via deposition.

[₽] new

(18) The average exposure of the population to the pollutants with the highest documented impact on human health, fine particulate matter (PM_{2.5}) and nitrogen dioxide (NO₂), should be reduced based on WHO recommendations. To this end, an average exposure reduction obligation should be introduced for these pollutants, in addition to limit values.

✓ 2004/107 recital 4
 ⇒ new

(19) ⇒ The Fitness Check of the Ambient Air Quality Directives (Directives 2004/107/EC and 2008/50/EC)⁴⁵ has shown that limit values are more effective in bringing down pollutant concentrations than target values. With the aim of minimising harmful effects on human health, paying particular attention to ⇔ vulnerable groups and ⇔ sensitive populations, and the environment as a whole, of airborne arsenic, cadmium and nickel and polycyclic aromatic hydrocarbons, target ⇔ limit ⇔ values should be set ⇔ for the concentration of sulphur dioxide, nitrogen dioxide, particulate matter, lead, benzene, carbon monoxide, arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons in ambient air ⇔ , to be attained as far as possible. Benzo(a)pyrene should be used as a marker for the carcinogenic risk of polycyclic aromatic hydrocarbons in ambient air.

[₽] new

(20) To allow Member States to prepare for revised air quality standards set by this Directive and to ensure legal continuity, for an interim period limit values should be identical to those set under the repealed Directives until the new limit values start applying.

✓ 2008/50 recital 13 (adapted)
⇒ new

(21) Ozone is a transboundary pollutant formed in the atmosphere from the emission of primary pollutants addressed by <u>Directive 2016/2284/EUDirective 2001/81/EC</u> of the European Parliament and of the Council⁴⁶ <u>of 23 October 2001</u> on national emission ceilings for certain atmospheric pollutants⁴⁷. Progress towards the air quality targets and long-term objectives for ozone set in this Directive should be determined by the targets and emission preduction commitments ⇔ ceilings provided for in <u>Directive 2001/81/EC</u> and, if appropriate, by implementing ⇒ cost-effective measures and ⇔ air quality plans as provided for in this Directive.

✓ 2008/50 recital 12 (adapted)
 ⇒ new

- (22) The existing ⇒ ozone ⇔ target values and long-term objectives of ensuring effective protection against harmful effects on human health and vegetation and ecosystems from exposure to ozone should remain unchanged ⇔ should be updated in light of the most recent recommendations of the World Health Organization ⇔ .
- (23) An alert threshold \Rightarrow for sulphur dioxide, nitrogen dioxide, particulate matter (PM₁₀ and PM_{2.5}) and ozone, \Leftarrow and an information threshold for ozone, \pm should be set for the

⁴⁵ Fitness check of the Ambient Air Quality Directives of 28 November 2019 (SWD(2019) 427 final).

⁴⁶ <u>Directive (EU) 2016/2284/EU of the European Parliament and of the Council of 14 December 2016 on the reduction of national emissions of certain atmospheric pollutants, amending Directive 2003/35/EC and repealing Directive 2001/81/EC (OJ L 344, 17.12.2016, p.1).</u>

⁴⁷ OJ L 309, 27.11.2001, p. 22. Directive as last amended by Council Directive 2006/105/EC (OJ L 363, 20.12.2006, p. 368).

protection of the general population \Rightarrow , vulnerable \Leftarrow and sensitive sections, respectively, from brief exposures to elevated ozone concentrations. Those thresholds should trigger the dissemination of information to the public on the risks of exposure and the implementation, if appropriate, of short-term measures to reduce $\frac{1}{2}$ pollution \Leftarrow levels where the alert threshold is exceeded.

◆ 2004/107 recital 7 (adapted)

(24) In accordance with Article ≥ 193 ≤ 176 of the Treaty, Member States may maintain or introduce more stringent protective measures relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons provided that they are compatible with the Treaty and that they are notified to the Commission.

✓ 2008/50 recital 9
 ⇒ new

(25) Air quality status should be maintained where it is already good, or improved. Where the ⇒ standards ⇔ objectives for ambient air quality laid down in this Directive are not met ⇒ at risk of not being met, or have not been met, ⇔ Member States should take ⇒ immediate ⇔ action in order to comply with the limit values ⇒, average exposure reduction obligations ⇔ and critical levels, and where possible, to attain the ⇒ ozone ⇔ target values and long-term objectives.

▶ 2004/107 recital 9

(26) Mercury is a very hazardous substance for human health and the environment. It is present throughout the environment and, in the form of methylmercury, has the capacity to accumulate in organisms, and in particular to concentrate in organisms higher up the food chain. Mercury released into the atmosphere is capable of being transported over long distances.

↓ 2004/107 recital 10 (adapted)

 > new

(27) The Commission intends to come forward in 2005 with a coherent strategy containing measures to ⊠ Regulation 2017/852 of the European Parliament and the Council⁴⁸ aims to ⊠ protect human health and the environment from the release of mercury, based on a life-cycle approach, and taking into account production, use, waste treatment and emissions. In this context, the Commission should consider all appropriate measures with a view to reducing the quantity of mercury in terrestrial and aquatic ecosystems, and thereby the ingestion of mercury via food, and avoiding mercury in certain products. ⇔ Provisions on monitoring mercury in this Directive complement and inform that Regulation. ⇔

⁴⁸ Regulation (EU) 2017/852 of the European Parliament and of the Council of 17 May 2017 on mercury, and repealing Regulation (EC) No 1102/2008 (OJ L 137, 24.5.2017, p. 1–21).

✓ 2008/50 recital 10
 ⇒ new

(28) The risk posed by air pollution to vegetation and natural ecosystems is most important in places away from urban areas. The assessment of such risks and the compliance with critical levels for the protection of vegetation should therefore focus on places away from built-up areas. ⇒ This assessment should take into account and complement requirements under Directive 2016/2284/EU to monitor the impacts of air pollution on terrestrial and aquatic ecosystems, and to report such impacts. ⇔

✓ 2008/50 recital 15 (adapted)
 ⇒ new

(29) Contributions from natural sources can be assessed but cannot be controlled. Therefore, where natural contributions to pollutants in ambient air can be determined with sufficient certainty, and where exceedances are due in whole or in part to these natural contributions, these may, under the conditions laid down in this Directive, be subtracted when assessing compliance with air quality limit values \Rightarrow and average exposure reduction obligations \Leftarrow . Contributions to exceedances of particulate matter **PM**₁₀ limit values attributable to winter-sanding or \boxtimes winter \bigotimes -salting of roads may also be subtracted when assessing compliance with air quality limit values provided that reasonable measures have been taken to lower concentrations.

↓ 2008/50 recital 16

(30) For zones and agglomerations where conditions are particularly difficult, it should be possible to postpone the deadline for compliance with the air quality limit values in cases where, notwithstanding the implementation of appropriate pollution abatement measures, acute compliance problems exist in specific zones and agglomerations. Any postponement for a given zone or agglomeration should be accompanied by a comprehensive plan to be assessed by the Commission to ensure compliance by the revised deadline. The availability of necessary Community measures reflecting the chosen ambition level in the Thematic Strategy on air pollution to reduce emissions at source will be important for an effective emission reduction by the timeframe established in this Directive for compliance with the limit values and should be taken into account when assessing requests to postpone deadlines for compliance.

✓ 2008/50 recital 18
 ⇒ new

(31) Air quality plans should be developed and updated for zones and agglomerations within which concentrations of pollutants in ambient air exceed the relevant air quality target values or limit values ⇒, ozone target values or average exposure reduction obligations ⇒ , plus any temporary margins of tolerance, where applicable. Air pollutants are emitted from many different sources and activities. To ensure coherence between different policies, such air quality plans should where feasible be consistent, and integrated with plans and programmes prepared pursuant to Directive 2010/75/EU 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion

plants⁴⁹⁵⁰, Directive (EU) 2016/2284Directive 2001/81/EC, and Directive 2002/49/EC of the European Parliament and of the Council <u>of 25 June 2002 relating to the assessment and management of environmental noise⁵⁴⁵²</u>. Full account will also be taken of the ambient air quality objectives provided for in this Directive, where permits are granted for industrial activities pursuant to Directive 2008/1/EC of the European Parliament and of the Council of 15 January 2008 concerning integrated pollution prevention and control⁵³.

- [₽] new
- (32) Air quality plans should also be prepared ahead of 2030 where there is a risk that Member States will not attain the limit values or ozone target value by that date in order to ensure that levels of pollutants are reduced accordingly.

✓ 2008/50 recital 19
 ⇒ new

(33) Action plans should be drawn up indicating the measures to be taken in the short term where there is a risk of an exceedance of one or more alert thresholds in order to reduce that risk and to limit its duration. When the risk applies to one or more limit values or target values, Member States may, where appropriate, draw up such short-term action plans. In respect of ozone, such short-term action plans should take into account the provisions of Commission Decision 2004/279/EC of 19 March 2004 concerning guidance for implementation of Directive 2002/3/EC of the European Parliament and of the Council relating to ozone in ambient air.

✓ 2008/50 recital 20
 ⇒ new

(34) Member States should consult ⇒ cooperate ⇔ with one another if, following significant pollution originating in another Member State, the level of a pollutant exceeds, or is likely to exceed, the relevant air quality ⇒ any limit value, ozone target value, average exposure reduction obligation ⇔ air quality objectives plus the margin of tolerance where applicable or, as the case may be, the alert threshold. The transboundary nature of specific pollutants, such as ozone and particulate matter, may require coordination between neighbouring Member States in drawing up and implementing air quality plans and short-term action plans and in informing the public. Where appropriate, Member States should pursue cooperation with third countries, with particular emphasis on the early involvement of candidate countries. ⇒ The Commission should be timely informed of and invited to assist in any such cooperation. ⇔

⁴⁹ OJ L 309, 27.11.2001, p. 1. Directive as last amended by Directive 2006/105/EC.

⁵⁰ <u>Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on</u> industrial emissions (integrated pollution prevention and control) (OJ L 334, 17.12.2010, p. 17).

⁵¹ <u>OJ L 189, 18.7.2002, p. 12.</u>

⁵² Directive 2002/49/EC of the European Parliament and of the Council of 25 June 2002 relating to the assessment and management of environmental noise (OJ L 189, 18.7.2002, p. 12.)

⁵³ OJ L 24, 29.1.2008, p. 8.

✓ 2008/50 recital 21
 ⇒ new

(35) It is necessary for the Member States and the Commission to collect, exchange and disseminate air quality information in order to understand better the impacts of air pollution and develop appropriate policies. Up-to-date information on concentrations of all regulated pollutants in ambient air ⇒ as well as air quality plans and short-term action plans ⇔ should also be readily available to the public.



(36) ⇒ Information on the concentrations and the deposition of the regulated pollutants should be forwarded to the Commission as a basis for regular reports. ⇔ In order to facilitate the handling and comparison of air quality information, data should be made available to the Commission in a standardised form.

↓ 2008/50 recital 23

(37) It is necessary to adapt procedures for data provision, assessment and reporting of air quality to enable electronic means and the Internet to be used as the main tools to make information available, and so that such procedures are compatible with Directive 2007/2/EC of the European Parliament and the Council <u>of 14 March 2007 establishing</u> <u>an infrastructure for spatial information in the European Community (INSPIRE)</u>⁵⁴.

↓ 2008/50 recital 24

(38) It is appropriate to provide for the possibility of adapting the criteria and techniques used for the assessment of the ambient air quality to scientific and technical progress and adapting thereto the information to be provided.

[₽] new

(39) As clarified by the case-law of the Court of Justice⁵⁵, Member States may not restrict legal standing to challenge a decision of a public authority to those members of the public concerned who participated in the preceding administrative procedure to adopt that decision. As also clarified by the case-law of the Court of Justice⁵⁶, effective access to justice in environmental matters and effective remedies requires inter alia that members of the public concerned should have the right to ask the court or a competent independent and impartial body to order interim measures to prevent a given instance of pollution. Therefore, it should be specified that legal standing should not be made conditional on the role that the concerned member of the public played

⁵⁴ Directive 2007/2/EC of the European Parliament and the Council of 14 March 2007 establishing an infrastructure for spatial information in the European Community (INSPIRE) (OJ L 108, 25.4.2007, p. 1).

⁵⁵ Case C–826/18, Judgment of the Court (First Chamber) of 14 January 2021; LB and Others v College van burgemeester en wethouders van de gemeente Echt-Susteren; paragraphs 58 and 59.

⁵⁶ Case C-416/10 Judgment of the Court (Grand Chamber), 15 January 2013; Jozef Križan and Others v Slovenská inšpekcia životného prostredia.Križan, paragraph 109.

during a participatory phase of the decision-making procedures under this Directive. In addition, any review procedure should be fair, equitable, timely and not prohibitively expensive, and provide for adequate and effective redress mechanisms, including injunctive relief as appropriate.

✓ 2008/50 recital 30
 ⇒ new

(40)This Directive respects the fundamental rights and observes the principles recognised in particular by the Charter of Fundamental Rights of the European Union. In particular, this Directive seeks to promote the integration into the policies of the Union of a high level of environmental protection and the improvement of the quality of the environment in accordance with the principle of sustainable development as laid down in Article 37 of the Charter of Fundamental Rights of the European Union. ⇒ Where damage to human health has occurred as a result of a violation of Articles 19, 20, 21 of this Directive, Member States should ensure that the individuals affected by such violations are able to claim and obtain compensation for that damage from the relevant competent authority. The rules on compensation, access to justice and penalties set in this Directive have the objective to avoid, prevent and reduce harmful effects on human health and the environment from air pollution, in line with Article 191(1) TFEU. They thus seeks to integrate into the policies of the Union a high level of environmental protection and the improvement of the quality of the environment in accordance with the principle of sustainable development as laid down in Article 37 of the Charter, and puts into concrete terms the obligation to protect the right to life and to the integrity of the person laid down in Articles 2 and 3 of the Charter. It also contributes to the right to an effective remedy before a tribunal as laid down in Article 47 of the Charter, in relation to the protection of human health. \Leftrightarrow

▶ 2008/50 recital 28 (adapted)

The obligation to transpose this Directive into national law should be confined to those provisions which represent a substantive change as compared with the earlier Directives.

↓ 2008/50 recital 29 (adapted)

In accordance with point 34 of the Interinstitutional Agreement on better lawmaking57, Member States are encouraged to draw up, for themselves and in the interest of the Community, their own tables illustrating, as far as possible, the correlation between the Directive and the transposition measures, and to make them public.

[↓] new

(41) In order to ensure uniform conditions for the implementation of the Member States' requirements on transmitting information and reporting on air quality under this Directive, implementing powers should be conferred on the Commission as regards (i) the establishment of rules relating to information on ambient air quality to be made

⁵⁷ OJ C 321, 31.12.2003, p. 1

available by Member States to the Commission as well as timescales in which that information is to be communicated and (ii) to the streamlining of the way data are reported and the reciprocal exchange of information and data from networks and individual sampling points measuring ambient air pollution within Member States. Those powers should be exercised in accordance with Regulation (EU) No 182/2011 of the European Parliament and of the Council⁵⁸.

- In order to ensure that this Directive continues meeting its objectives, in particular to (42)avoid, prevent and reduce harmful effects from ambient air quality on human health and the environment, the power to adopt acts in accordance with Article 290 of the Treaty on the Functioning of the European Union should be delegated to the Commission in respect of amending the annexes to this Directive to take account of technical and scientific developments related to air pollutants, their assessment and management, their impacts on human health and the environment and to appropriate information of the public. It is of particular importance that the Commission carry out appropriate consultations during its preparatory work, including at expert level, and that those consultations be conducted in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 Better Law Making⁵⁹. In particular, to ensure equal participation in the preparation of delegated acts, the European Parliament and the Council receive all documents at the same time as Member States' experts, and their experts systematically have access to meetings of Commission expert groups dealing with the preparation of delegated acts.
- (43) The obligation to transpose this Directive into national law should be confined to those provisions which represent a substantive amendment as compared to the earlier Directives. The obligation to transpose the provisions which are unchanged arises under the earlier Directives.
- (44) This Directive should be without prejudice to the obligations of the Member States relating to the time-limits for the transposition into national law of the Directives set out in Part B of Annex X.

↓ 2004/107 recital 1 (adapted)

On the basis of principles enshrined in Article 175(3) of the Treaty, the Sixth Community Environment Action Programme, adopted by Decision No 1600/2002/EC of the European Parliament and of the Council60, establishes the need to reduce pollution to levels which minimise harmful effects on human health, paying particular attention to sensitive populations, and the environment as a whole, to improve the monitoring and assessment of air quality including the deposition of pollutants and to provide information to the public.

◆ 2004/107 recital 2 (adapted)

Article 4(1) of Council Directive 96/62/EC of 27 September 1996 on ambient air quality assessment and management61 requires the Commission to submit proposals for regulating the pollutants listed in Annex I to that Directive taking into account the provisions laid down in paragraphs 3 and 4 of that Article.

⁵⁸ OJ L 55, 28.2.2011, p. 13–18

⁵⁹ OJ C 321, 31.12.2003, p. 1.

⁶⁰ OJ L 242, 10.9.2002, p. 1.

⁶¹ OJ L 296, 21.11.1996, p. 55. Directive as amended by Regulation (EC) No 1882/2003 of the European Parliament and of the Council (OJ L 284, 31.10.2003, p. 1).

↓ 2004/107 recital 5

◆ 2004/107 recital 6

↓ 2004/107 recital 8

The target values would not require any measures entailing disproportionate costs. Regarding industrial installations, they would not involve measures beyond the application of best available techniques (BAT) as required by Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control⁶² and in particular would not lead to the closure of installations. However, they would require Member States to take all cost-effective abatement measures in the relevant sectors.

In particular, the target values of this Directive are not to be considered as environmental quality standards as defined in Article 2(7) of Directive 96/61/EC and which, according to Article 10 of that Directive, require stricter conditions than those achievable by the use of BAT.

Where concentrations exceed certain assessment thresholds, monitoring of arsenic, cadmium, nickel and benzo(a)pyrene should be mandatory. Supplementary means of assessment may reduce the required number of sampling points for fixed measurements. Further monitoring of background ambient air concentrations and deposition is foreseen.

↓ 2004/107 recital 13

Information on the concentrations and the deposition of the regulated pollutants should be forwarded to the Commission as a basis for regular reports.

Up-to-date information on ambient air concentrations and deposition of regulated pollutants should be readily available to the public.

↓ 2004/107 recital 15

The Member States should lay down rules on penalties applicable to infringements of the provisions of this Directive and ensure that they are implemented. Those penalties should be effective, proportionate and dissuasive.

↓ 2004/107 recital 16

The measures necessary for the implementation of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission⁶³.

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⁶² OJ L 257, 10.10.1996, p. 26. Directive as last amended by Regulation (EC) No 1882/2003.

◆ 2004/107 recital 14

⁶³ OJ L 184, 17.7.1999, p. 23.

↓ 2004/107 recital 17

The amendments necessary for adaptation of this Directive to scientific and technical progress should relate solely to criteria and techniques for the assessment of concentrations and deposition of regulated pollutants or detailed arrangements for forwarding information to the Commission. They should not have the effect of modifying the target values either directly or indirectly,

The Sixth Community Environment Action Programme adopted by Decision No 1600/2002/EC of the European Parliament and of the Council of 22 July 200264 establishes the need to reduce pollution to levels which minimise harmful effects on human health, paying particular attention to sensitive populations, and the environment as a whole, to improve the monitoring and assessment of air quality including the deposition of pollutants and to provide information to the public.

In order to protect human health and the environment as a whole, it is particularly important to combat emissions of pollutants at source and to identify and implement the most effective emission reduction measures at local, national and Community level. Therefore, emissions of harmful air pollutants should be avoided, prevented or reduced and appropriate objectives set for ambient air quality taking into account relevant World Health Organisation standards, guidelines and programmes.

Council Directive 96/62/EC of 27 September 1996 on ambient air quality assessment and management65, 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 air66, Directive 2000/69/EC of the European Parliament and of the Council of 16 November 2000 relating to limit values for benzene and carbon monoxide in ambient air67, Directive 2002/3/EC of the European Parliament and of the Council of 12 February 2002 relating to ozone in ambient air68 and Council Decision 97/101/EC of 27 January 1997 establishing a reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within the Member States69 need to be substantially revised in order to incorporate the latest health and scientific developments and the experience of the Member States. In the interests of clarity, simplification and administrative efficiency it is therefore appropriate that those five acts be replaced by a single Directive and, where appropriate, by implementing measures.

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◆ 2008/50 recital 2

↓ 2008/50 recital 3 (adapted)

⁶⁴ OJ L 242, 10.9.2002, p. 1.

⁶⁵ OJ-L 296, 21.11.1996, p. 55. Directive as amended by Regulation (EC) No 1882/2003 of the European Parliament and of the Council (OJ L 284, 31.10.2003, p. 1).

⁶⁶ OJ-L 163, 29.6.1999, p. 41. Directive as amended by Commission Decision 2001/744/EC (OJ L 278, 23.10.2001, p. 35).

⁶⁷ OJ L 313, 13.12.2000, p. 12.

⁶⁸ OJ L 67, 9.3.2002, p. 14.

⁶⁹ OJ-L 35, 5.2.1997, p. 14. Decision as amended by Commission Decision 2001/752/EC (OJ-L 282, 26.10.2001, p. 69).

Once sufficient experience has been gained in relation to the implementation of Directive 2004/107/EC of the European Parliament and of the Council of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air70 consideration may be given to the possibility of merging its provisions with those of this Directive.

↓ 2008/50 recital 11

Fine particulate matter (PM_{2,5}) is responsible for significant negative impacts on human health. Further, there is as yet no identifiable threshold below which PM_{2,5} would not pose a risk. As such, this pollutant should not be regulated in the same way as other air pollutants. The approach should aim at a general reduction of concentrations in the urban background to ensure that large sections of the population benefit from improved air quality. However, to ensure a minimum degree of health protection everywhere, that approach should be combined with a limit value, which is to be preceded in a first stage by a target value.

↓ 2008/50 recital 17

The necessary Community measures to reduce emissions at source, in particular measures to improve the effectiveness of Community legislation on industrial emissions, to limit the exhaust emissions of engines installed in heavy duty vehicles, to further reduce the Member States' permitted national emissions of key pollutants and the emissions associated with refuelling of petrol cars at service stations, and to address the sulphur content of fuels including marine fuels should be duly examined as a priority by all institutions involved.

↓ 2008/50 recital 18

Air quality plans should be developed for zones and agglomerations within which concentrations of pollutants in ambient air exceed the relevant air quality target values or limit values, plus any temporary margins of tolerance, where applicable. Air pollutants are emitted from many different sources and activities. To ensure coherence between different policies, such air quality plans should where feasible be consistent, and integrated with plans and programmes prepared pursuant to Directive 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants⁷¹, Directive 2001/81/EC, and Directive 2002/49/EC of the European Parliament and of the Council of 25 June 2002 relating to the assessment and management of environmental noise⁷². Full account will also be taken of the ambient air quality objectives provided for in this Directive, where permits are granted for industrial activities pursuant to Directive 2008/1/EC of the European Parliament and of the Council of 25 January 2008 concerning integrated pollution prevention and control⁷³.

⁷⁰ OJ L 23, 26.1.2005, p. 3.

⁷¹ OJ L 309, 27.11.2001, p. 1. Directive as last amended by Directive 2006/105/EC.

⁷² OJ-L 189, 18.7.2002, p. 12.

⁷³ OJ L 24, 29.1.2008, p. 8.

Since the objectives of this Directive cannot be sufficiently achieved by the Member States by reason of the transboundary nature of air pollutants and can therefore be better achieved at Community level, the Community may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty. In accordance with the principle of proportionality, as set out in that Article, this Directive does not go beyond what is necessary in order to achieve those objectives.

Member States should lay down rules on penalties applicable to infringements of the provisions of this Directive and ensure that they are implemented. The penalties should be effective, proportionate and dissuasive.

◆ 2008/50 recital 27 (adapted)

Certain provisions of the acts repealed by this Directive should remain in force in order to ensure the continuance of existing air quality limits for nitrogen dioxide until they are replaced from 1 January 2010, the continuance of air quality reporting provisions until new implementing measures are adopted, and the continuance of obligations relating to the preliminary assessments of air quality required under Directive 2004/107/EC.

▶ 2008/50 recital 31

The measures necessary for the implementation of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission⁷⁴.

▶ 2008/50 recital 32

The Commission should be empowered to amend Annexes I to VI, Annexes VIII to X and Annex XV. Since those measures are of general scope and are designed to amend nonessential elements of this Directive, they must be adopted in accordance with the regulatory procedure with scrutiny provided for in Article 5a of Decision 1999/468/EC.

↓ 2008/50 recital 33 (adapted)

The transposition clause requires Member States to ensure that the necessary urban background measurements are in place well in time to define the Average Exposure Indicator, in order to guarantee that the requirements related to the assessment of the National Exposure Reduction Target and to the calculation of the Average Exposure Indicator are met,

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OJL 184, 17.7.1999, p. 23. Decision as amended by Decision 2006/512/EC (OJL 200, 22.7.2006, p. 11).

▶ 2008/50

HAVE ADOPTED THIS DIRECTIVE:

CHAPTER I

GENERAL PROVISIONS

▶ 2004/107

Article 1

Objectives

The objectives of this Directive shall be to:

(a) establish a target value for the concentration of arsenic, cadmium, nickel and benzo(a)pyrene in ambient air so as to avoid, prevent or reduce harmful effects of arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons on human health and the environment as a whole;

(b) ensure, with respect to arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons, that ambient air quality is maintained where it is good and that it is improved in other cases;

(c) determine common methods and criteria for the assessment of concentrations of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air as well as of the deposition of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons;

(d) ensure that adequate information on concentrations of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air as well as on the deposition of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons is obtained and ensure that it is made available to the public.

₽ new

Article 1

Objectives

- 1. This Directive sets out a zero pollution objective for air quality, so that within the Union air quality is progressively improved to levels no longer considered harmful to human health and natural ecosystems, as defined by scientific evidence, thus contributing to a toxic-free environment at the latest by 2050.
- 2. This Directive sets intermediate limit values, target values, average exposure reduction obligations, average exposure concentration objectives, critical levels, information thresholds, alert thresholds and long-term objectives ('air quality

standards') to be met by the year 2030, and regularly reviewed thereafter in accordance with Article 3.

3. Furthermore, this Directive contributes to achieving: the Union's pollution-reduction, biodiversity and ecosystem objectives in accordance with the 8th Environment Action Programme, as set out in Decision (EU) 2022/591 of the European Parliament and of the Council⁷⁵.

◆ 2008/50 (adapted) ⇒ new

<u>Article 2</u>

⊠ Subject matter ⊠

This Directive lays down \boxtimes the following \bigotimes measures aimed at the following:

- 1. ➢ measures ∞ defining and establishing objectives for ambient air quality designed to avoid, prevent or reduce harmful effects on human health and the environment as a whole;
- ⇒ measures for monitoring ⇔ obtaining information on ambient air quality, in order to help combat air pollution and nuisance and to monitor long-term trends and improvements resulting from ⇔ impacts of ⇔ national and Community ∞ Union and national ∞ measures ⇔ on ambient air quality ⇔ ;
- 4. \boxtimes measures \bigotimes ensuring that such \boxtimes the \bigotimes information on ambient air quality is made available to the public;
- 5. \boxtimes measures \bigotimes maintaining air quality where it is good and improving it in other cases;

[↓] new

Article 3

Regular review

1. By 31 December 2028, and every 5 years thereafter, and more often if substantial new scientific findings point to the need for it, the Commission shall review the scientific evidence related to air pollutants and their effects on human health and the environment relevant to achieving the objective set in Article 1 and present a report with the main findings to the European Parliament and to the Council.

2. The review shall assess whether applicable air quality standards are still appropriate to achieve the objective of avoiding, preventing or reducing harmful effects on human health and the environment and whether additional air pollutants should be covered.

In order to achieve the objectives set in Article 1, the review shall assess whether this Directive needs to be revised with a view to ensuring alignment with the World Health Organization (WHO) Air Quality Guidelines and the latest scientific information.

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Decision (EU) 2022/591 of the European Parliament and of the Council of 6 April 2022 on a General Union Environment Action Programme to 2030 (OJ L 114, 12.4.2022, p. 22).
For the purposes of the review, the Commission shall take into account, inter alia, the following:

- (a) latest scientific information from WHO and other relevant organisations,
- (b) technological developments impacting air quality and its assessment,
- (c) air quality situations and associated impacts on human health and the environment in Member States,
- (d) progress made in implementing national and Union reduction measures for pollutants and improving air quality.

3. The European Environment Agency shall assist the Commission in carrying out the review.

4. Where the Commission considers it appropriate, as a result of the review, it shall present a proposal to revise air quality standards or to cover other air pollutants.

✓ 2008/50 (adapted)
⇒ new

Article <u>4</u>₽

Definitions

For the purposes of this Directive \boxtimes , the following definitions apply \boxtimes :

- (1) 'ambient air' shall mean ≥ means ≤ outdoor air in the troposphere, excluding workplaces as defined by ≥ in Article 2 of Council ≤ Directive 89/654/EEC²⁶ where provisions concerning health and safety at work apply and to which members of the public do not have regular access;
- (2) 'pollutant' shall mean is means in any substance present in ambient air and likely to have harmful effects on human health and/or the environment as a whole;
- (3) 'level' shall mean \boxtimes means \bigotimes the concentration of a pollutant in ambient air or the deposition thereof on surfaces in a given time;

↓ 2004/107 (adapted)

Article 2

Definitions

For the purposes of this Directive the definitions in Article 2 of Directive 96/62/EC, with the exception of the definition of 'target value', shall apply.

The objectives of this Directive shall be to:

⁷⁶ <u>Council Directive 89/654/EEC of 30 November 1989 concerning the minimum safety and health</u> requirements for the workplace (first individual directive within the meaning of Article 16 (1) of <u>Directive 89/391/EEC</u>) (OJ L 393, 30.12.1989, p. 1). Directive as amended by Directive 2007/30/EC of the European Parliament and of the Council (OJ L 165, 27.6.2007, p. 21).

(a) 'target value' means a concentration in the ambient air fixed with the aim of avoiding, preventing or reducing harmful effects on human health and the environment as a whole, to be attained where possible over a given period;

(4) (b) 'total or bulk deposition' means the total mass of pollutants which is transferred from the atmosphere to surfaces ▷, such as < (e.g. soil, vegetation, water, buildings, etc.) in a given area within a given time;</p>

↓ 2008/50 (adapted)

- (5) <u>**18.**</u> PM_{10} ' shall mean \boxtimes means \bigotimes particulate matter which passes through a size-selective inlet as defined in the reference method for the sampling and measurement of PM_{10} , EN 12341, with a 50 % efficiency cut-off at 10 µm aerodynamic diameter;
- (6) <u>19.</u> 'PM_{2.5}' shall mean \boxtimes means \bigotimes particulate matter which passes through a size-selective inlet as defined in the reference method for the sampling and measurement of PM_{2.5}, EN 14907, with a 50 % efficiency cut-off at 2,5 µm aerodynamic diameter;
- (7) <u>24.</u> 'oxides of nitrogen' shall mean \boxtimes means \bigotimes the sum of the volume mixing ratio (ppbv) of nitrogen monoxide (nitric oxide) and nitrogen dioxide expressed in units of mass concentration of nitrogen dioxide (μ g/m³);

↓ 2004/107 (adapted)

(c)[•]upper assessment threshold[•] means a level specified in Annex II below which a combination of measurements and modelling techniques may be used to assess ambient air quality, in accordance with Article 6(3) of Directive 96/62/EC;

(d) 'lower assessment threshold' means a level specified in Annex II below which the sole use of modelling or objective estimation techniques shall be possible to assess ambient air quality, in accordance with Article 6(4) of Directive 96/62/EC;

(e)'fixed measurements' means measurements taken at fixed sites either continuously or by random sampling, in accordance with Article 6(5) of Directive 96/62/EC;

(8) \bigoplus 'arsenic', 'cadmium', 'nickel' and 'benzo(a)pyrene' mean the total content of these elements and compounds in the PM₁₀ fraction;

(g) 'PM₁₀' means particulate matter, which passes through a size-selective inlet as defined in EN 12341 with a 50 % efficiency cut-off at 10 μ m aerodynamic diameter;

- (9) (h) polycyclic aromatic hydrocarbons' means those organic compounds, composed of at least two fused aromatic rings made entirely from carbon and hydrogen;
- (10) <u>⊕</u>'total gaseous mercury' means elemental mercury vapour (Hg⁰) and reactive gaseous mercury, i.e. water-soluble mercury species with sufficiently high vapour pressure to exist in the gas phase:<u>=</u>

↓ 2008/50 (adapted)

- (11) <u>27</u>. 'volatile organic compounds' (VOC) shall mean ∞ means ∞ organic compounds from anthropogenic and biogenic sources, other than methane, that are capable of producing photochemical oxidants by reactions with nitrogen oxides in the presence of sunlight;
- (12) <u>28.</u> 'ozone precursor substances' means substances which contribute to the formation of ground-level ozone: some of which are listed in Annex X.
 - [↓] new
- (13) "black carbon" (BC) means equivalent black carbon (eBC) derived from optical methods.
- (14) "ultrafine particles" (UFP) means the particle number concentrations in cm³ for a size range with a lower limit of ≤ 10 nm and for a size range with no restriction on the upper limit.

✓ 2008/50 (adapted)
 ⇒ new

- (15) <u>16.</u> 'zone' shall mean ▷ means ▷ part of the territory of a Member State, as delimited by that Member State for the purposes of air quality assessment and management;
- (16) $\underline{17}$ agglomeration' shall mean \boxtimes means \bigotimes a zone that is a conurbation with a population in excess of 250 000 inhabitants or, where the population is 250 000 inhabitants or less \boxtimes fewer \bigotimes , with a given population density per km² to be established by the Member States;
- (17) $\underline{4}$ 'assessment' shall mean \boxtimes means \bigotimes any method used to measure, calculate, predict or estimate levels;
- (18) <u>12:</u> 'upper assessment threshold' shall mean ∞ means ∞ at ∞ the ∞ level below which a combination of fixed measurements and modelling techniques and/or indicative measurements may ⇒ that determines the required assessment regime to ⇔ be used to assess ambient air quality;

13. 'lower assessment threshold' shall mean a level below which modelling or objective-estimation techniques alone may be used to assess ambient air quality;

- (19) 25. 'fixed measurements' shall mean ∞ means ∞ measurements taken at ⇒ sampling points ⇔ fixed sites, either continuously or by random sampling, ⇒ at constant locations for at least 1 calendar year ⇔ to determine the levels in accordance with the relevant data quality objectives;
- (20) <u>26</u>-'indicative measurements' shall mean ⊠ means ∞ measurements which meet data quality objectives that are less strict than those required for fixed measurements;

[↓] new

- (21) 'objective estimation' means an assessment method to obtain quantitative or qualitative information on the concentration or deposition level of a pollutant through expert judgement, which may include use of statistical tools, remote sensing, and in-situ sensors;
- (22) 'spatial representativeness' means an assessment approach whereby the air quality metrics observed at a sampling point are representative for an explicitly delineated geographical area to the extent that air quality metrics within that area do not differ from the metrics observed at the sampling point by more than a pre-defined tolerance level;

↓ 2008/50 (adapted)

(23) <u>23.</u> 'urban background locations' shall mean ⊠ means ⊠ places in urban areas where levels are representative of the exposure of the general urban population;

₽ new

- (24) 'rural background locations' means places in rural areas with low population density where levels are representative of the exposure of the general rural population;
- (25) 'monitoring supersite' means a monitoring station at an urban background or rural background location that combines multiple sampling points to gather long-term data on several pollutants;

◆ 2008/50 (adapted) ⇒ new

- (26) 5. 'limit value' shall mean ≥ means ≥ a level ≥ which is not to be exceeded and which is ≥ fixed on the basis of scientific knowledge, with the aim of avoiding, preventing or reducing harmful effects on human health and/or the environment as a whole, to be attained within a given period and not to be exceeded once attained;
- (27) <u>9</u>.[•] ⇒ ozone ⇔ target value' shall mean ≫ means ⊗ a level fixed ⇒ on the basis of scientific knowledge, ⇔ with the aim of avoiding, preventing or reducing harmful effects ⇒ from ozone ⇔ on human health and/or the environment as a whole, to be ⊗ complied with ⊗ attained where possible over a given period;
- (28) 20 average exposure indicator' shall mean \boxtimes means \boxtimes an average level determined on the basis of measurements at urban background locations throughout the territory of a Member State \Rightarrow territorial unit at NUTS 1 level as described in Regulation (EC) No 1059/2003, or, if there is no urban area located in that territorial unit, at rural background locations, \Leftrightarrow and which reflects population exposure. It is, used to calculate \Rightarrow check whether \Leftrightarrow the national \Rightarrow average \Leftrightarrow exposure reduction \Rightarrow obligation \Leftrightarrow target and the

 \Rightarrow average \Leftrightarrow exposure concentration $\frac{\text{obligation}}{\text{obligation}} \Rightarrow$ objective for that territorial unit have been met \Leftrightarrow ;

- (29) 22. 'national \Rightarrow average \Leftrightarrow exposure reduction \Rightarrow obligation \Leftrightarrow target' shall mean \boxtimes means \bigotimes a percentage reduction of the average exposure of the population \Rightarrow , expressed as average exposure indicator, \Leftrightarrow of a \Rightarrow territorial unit at NUTS 1 level as described in Regulation (EC) No 1059/2003 of the European Parliament and of the Council⁷⁷ \Leftrightarrow Member State set for the reference year with the aim of reducing harmful effects on human health, to be attained where possible over a given period;
- (30) <u>21</u>: ⇔ average ⇔ exposure concentration ⇒ objective ⇔ obligation' shall mean ∞ means ∞ a level fixed on the basis of the average exposure indicator ∞ to be attained, ∞ with the aim of reducing harmful effects on human health, to be attained over a given period;
- (31) <u>€</u> 'critical level' shall mean ⊠ means ⊠ a level fixed on the basis of scientific knowledge, above which direct adverse effects may occur on some receptors, such as trees, other plants or natural ecosystems but not on humans;
- (32) $\underbrace{\pm\pm}$ information threshold' shall mean \boxtimes means \bigotimes a level beyond which there is a risk to human health from brief exposure for particularly sensitive sections of the population \boxtimes and vulnerable groups \bigotimes and for which immediate and appropriate information is necessary;
- (33) $\underline{10}$ 'alert threshold' shall mean \boxtimes means \bigotimes a level beyond which there is a risk to human health from brief exposure for the population as a whole and at which immediate steps are to be taken by the Member States;

7. 'margin of tolerance' shall mean the percentage of the limit value by which that value may be exceeded subject to the conditions laid down in this Directive;

- (34) $\underline{14}$ 'long-term objective' shall mean \boxtimes means \bigotimes a level to be attained in the long-term, save where not achievable through proportionate measures, with the aim of providing effective protection of human health and the environment;
- (35) <u>15-</u> contributions from natural sources' shall mean ∞ means ∞ emissions of pollutants not caused directly or indirectly by human activities, including natural events such as volcanic eruptions, seismic activities, geothermal activities, wild-land fires, high-wind events, sea sprays or the atmospheric resuspension or transport of natural particles from dry regions;
- (36) <u>&</u> 'air quality plans' shall mean ⊠ means ⊠ plans that set out measures in order to attain the ⊠ comply with ⊠ limit values, or ⇒ ozone ⇔ target values ⇒ or average exposure reduction obligations ⇔ ;

↓ new

(37) 'short-term action plans' means plans that set out emergency measures to be taken in the short term to reduce the immediate risk or the duration of the exceedance of the alert thresholds;

 ⁷⁷ Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the establishment of a common classification of territorial units for statistics (NUTS) (OJ L 154, 21.6.2003, p. 1).

- (38) 'the public concerned' means the public affected or likely to be affected by exceedances of air quality standards, or having an interest in, the decision-making procedures related to the implementation of the obligations under this Directive, including non-governmental organisations promoting the protection of human health or the environment and meeting any requirements under national law;
- (39) 'sensitive population and vulnerable groups' means those population groups that are more vulnerable to air pollution exposure than the average population, because they have a higher sensitivity or a lower threshold for health effects or have a reduced ability to protect themselves.

↓ 2008/50

Article <u>53</u>

Responsibilities

Member States shall designate at the appropriate levels the competent authorities and bodies responsible for the following:

- (a) assessment of ambient air quality;
- (b) approval of measurement systems (methods, equipment, networks and laboratories);

(c) ensuring the accuracy of measurements;

	 new		
(d)	(d) ensuring the accuracy of modelling applications;		
	↓ 2008/50 (adapted)		
(<u>ed</u>)	analysis of assessment methods;		
(<u>f</u> e) assur	coordination on their territory if $\frac{\text{Community-wide}}{\text{Community-wide}} \otimes \text{Union-wide} \otimes \text{quality}$ urance programmes are being organised by the Commission;		
(<u>gf</u>)	cooperation with the other Member States and the Commission $\underline{x}_{\underline{x}}$		
	 new		
(h)	establishment of air quality plans;		
(i)	establishment of short-term action plans.		
Where releve	▶ 2008/50 (adapted) ⇒ new $ the competent authorities and hodies shall comply with Section C Points E $		

and F of Annex VI.

Article <u>64</u>

Establishment of zones and agglomerations

Member States shall establish zones and agglomerations throughout their territory \Rightarrow , including, where appropriate for the purposes of air quality assessment and management, at the level of agglomerations \Leftrightarrow . Air quality assessment and air quality management shall be carried out in all zones and agglomerations.

CHAPTER II

ASSESSMENT OF AMBIENT AIR QUALITY 🖾 AND DEPOSITION RATES 🖾

SECTION 1

Assessment of ambient air quality in relation to sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter, lead, benzene and carbon monoxide

Article <u>7</u> 5 <u></u>

Assessment regime

1. The upper and lower assessment thresholds specified in <u>Section A of</u> Annex II shall apply to sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter (PM₁₀ and PM_{2.5}), lead, benzene, and carbon monoxide \boxtimes , arsenic, cadmium, nickel, benzo(a)pyrene and ozone in ambient air \bigotimes .

Each zone and agglomeration shall be classified in relation to those assessment thresholds.

2. \boxtimes Member States shall review $\bigotimes \underline{t}$ the classification referred to in paragraph 1 shall be reviewed at least every $\boxtimes 5 \bigotimes \overline{tive}$ years in accordance with the procedure laid down in \boxtimes this paragraph $\bigotimes \underline{Section} - \underline{B} \cdot \underline{of} - \underline{Annex} \cdot \underline{H}$. However, classifications shall be reviewed more frequently in the event of significant changes in activities emitting air pollutants and modifying the result to the ambient concentrations of sulphur dioxide, nitrogen dioxide \boxtimes and $\bigotimes \underline{or}$, where relevant, oxides of nitrogen, particulate matter (PM₁₀ and PM_{2.5}), lead, benzene, \underline{ot} carbon monoxide \boxtimes , arsenic, cadmium, nickel, benzo(a)pyrene or ozone \bigotimes .

B. Determination of exceedances of upper and lower assessment thresholds

Where fewer \boxtimes data are available for less \bigotimes than $\boxtimes 5 \bigotimes$ five years' data are available, Member States may combine measurement campaigns of short duration during the period of the year and at locations likely to be typical of the highest pollution levels, with results obtained from information from emission inventories and modelling to determine exceedances of the upper and lower assessment thresholds.

Article <u>86</u>

Assessment criteria

1. Member States shall assess ambient air quality with respect to the pollutants referred to in Article $\underline{75}$ in all their zones and agglomerations, in accordance with the criteria laid down in paragraphs $2_{\overline{2}}$ 3, and $4 \Rightarrow$ to $6 \Leftrightarrow$ of this Article and in accordance with the criteria laid laid down in Annex IVIII.

2. In all zones and agglomerations where the level of pollutants referred to in paragraph 1 exceeds the upper assessment threshold established for those pollutants, fixed measurements shall be used to assess the ambient air quality. Those fixed measurements may be supplemented by modelling techniques \Rightarrow applications \Leftrightarrow and/or indicative measurements \Rightarrow to assess air quality and \Leftrightarrow to provide adequate information on the spatial distribution of the ambient air \Rightarrow pollutants \Leftrightarrow quality \Rightarrow and on the spatial representativeness of fixed measurements \Leftrightarrow .

3. In all zones and agglomerations where the level of pollutants referred to in paragraph 1 is below the upper assessment threshold \Rightarrow exceeds a limit value \Leftrightarrow established for those pollutants \Rightarrow in Table 1 of Section 1 of Annex I or an ozone target value established in Section 2 of Annex I \Leftrightarrow , a combination of fixed measurements and modelling techniques \Rightarrow applications \Leftrightarrow and/or indicative measurements may \Rightarrow shall \Leftrightarrow be used \Rightarrow in addition to fixed measurements \Leftrightarrow to assess the ambient air quality.

₽ new

Those modelling applications shall also provide information on the spatial distribution of pollutants and on the spatial representativeness of fixed measurements.

✓ 2008/50 (adapted)
⇒ new

4. In all zones and agglomerations where the level of pollutants referred to in paragraph 1 is below the lower assessment threshold established for those pollutants, modelling techniques \Rightarrow applications, indicative measurements, \Leftrightarrow or objective-estimation techniques, or \Rightarrow a combination thereof \Leftrightarrow both shall be sufficient for the assessment of the ambient air quality.

[↓] new

5. If modelling shows an exceedance of any limit value or ozone target value in an area of the zone not covered by fixed measurements, additional fixed or indicative measurements shall be used during at least 1 calendar year after the exceedance was recorded, to assess the concentration level of the relevant pollutant.

↓ 2004/107 ⇒ new

Article 4

Assessment of ambient air concentrations and deposition rates

1. Ambient air quality with respect to arsenic, cadmium, nickel and benzo(a)pyrene shall be assessed throughout the territory of the Member States.

2. In accordance with the criteria referred to in paragraph 7, measurement is mandatory in the following zones:

(a) zones and agglomerations in which levels are between the upper and the lower assessment threshold, and

(b) other zones and agglomerations where levels exceed the upper assessment threshold.

The measurements provided for may be supplemented by modelling techniques to provide an adequate level of information on ambient air quality.

3. A combination of measurements, including indicative measurements as referred to in Annex IV, Section I, and modelling techniques may be used to assess ambient air quality in zones and agglomerations where the levels over a representative period are between the upper and lower assessment thresholds, to be determined pursuant to Annex II, Section II.

4. In zones and agglomerations where the levels are below the lower assessment threshold, to be determined pursuant to Annex II, Section II, the sole use of modelling or objective estimation techniques for assessing levels shall be possible.

5. Where pollutants have to be measured, the measurements shall be taken at fixed sites either continuously or by random sampling. The number of measurements shall be sufficient to enable the levels to be determined.

6. The upper and lower assessment thresholds for arsenic, cadmium, nickel and benzo(a)pyrene in ambient air shall be those laid down in Section I of Annex II. The classification of each zone or agglomeration for the purposes of this Article shall be reviewed at least every five years in accordance with the procedure laid down in Section II of Annex II. Classification shall be reviewed earlier in the event of significant change in activities relevant to concentrations of arsenic, cadmium, nickel and benzo(a)

7. The criteria for determining the location of sampling points for the measurement of arsenic, cadmium, nickel and benzo(a)pyrene in ambient air in order to assess compliance with the target values shall be those listed in Sections I and II of Annex III. The minimum number of sampling points for fixed measurements of concentrations of each pollutant shall be as laid down in Section IV of Annex III, and they shall be installed in each zone or agglomeration within which measurement is required if fixed measurement is the sole source of data on concentrations within it.

<u>68</u>. To assess the contribution of benzo(a)pyrene in ambient air, each Member State shall monitor other relevant polycyclic aromatic hydrocarbons at a limited number of measurement sites \Rightarrow sampling points \Leftrightarrow . These compounds shall include at least: benzo(a)anthracene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene. Monitoring sites \Rightarrow Sampling points \Leftrightarrow for these polycyclic aromatic hydrocarbons shall be co-located with sampling \Rightarrow points \Leftrightarrow sites for benzo(a)pyrene and shall be selected in such a way that geographical variation and long-term trends can be identified. Sections I, II and III of Annex III shall apply.

↓ new

7. In addition to monitoring required under Article 10, Member States shall, where applicable, monitor ultrafine particles levels in accordance with Point D of Annex III and Section 3 of Annex VII.

◆ 2008/50

5. In addition to the assessments referred to in paragraphs 2, 3 and 4, measurements shall be made, at rural background locations away from significant sources of air pollution, for the purposes of providing, as a minimum, information on the total mass concentration and the chemical speciation concentrations of fine particulate matter (PM_{2,5}) on an annual average basis and shall be conducted using the following criteria:

(a) one sampling point shall be installed every 100000 km²;

(b) each Member State shall set up at least one measuring station or may, by agreement with adjoining Member States, set up one or several common measuring stations, covering the relevant neighbouring zones, to achieve the necessary spatial resolution;

(c) where appropriate, monitoring shall be coordinated with the monitoring strategy and measurement programme of the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP);

(d) Sections A and C of Annex I shall apply in relation to the data quality objectives for mass concentration measurements of particulate matter and Annex IV shall apply in its entirety.

Member States shall inform the Commission of the measurement methods used in the measurement of the chemical composition of fine particulate matter (PM_{2.5}).

✓ 219/2009 Art. 1 and Annex
 .3(8) (adapted)

9. Irrespective of concentration levels, one background sampling point shall be installed every 100000 km2 for the indicative measurement, in ambient air, of arsenic, cadmium, nickel, total gaseous mercury, benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in paragraph 8, and of the total deposition of arsenic, cadmium, mercury, nickel, benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in paragraph 8. Each Member State shall set up at least one measuring station. However, Member States may, by agreement, and in accordance with guidelines to be drawn up under the regulatory procedure referred to in Article 6(2), set up one or several common measuring stations, covering neighbouring zones in adjoining Member States, to achieve the necessary spatial resolution. Measurement of particulate and gaseous divalent mercury is also recommended. Where appropriate, monitoring shall be coordinated with the European Monitoring and Evaluation of Pollutants (EMEP) monitoring strategy and measurement programme. The sampling sites for these pollutants shall be selected in such a way that geographical variation and long-term trends can be identified. Sections I, II and III of Annex III shall apply.

✓ 2004/107
 ⇒ new

<u>8</u>.<u>10</u>: The use of bio indicators $\frac{may}{may} \Rightarrow$ shall \Leftrightarrow be considered where regional patterns of the impact on ecosystems are to be assessed \Rightarrow , including in accordance with the monitoring undertaken under Directive (EU) 2016/2284 \Leftrightarrow .

11. For zones and agglomerations within which information from fixed measurement stations is supplemented by information from other sources, such as emission inventories, indicative measurement methods and air quality modelling, the number of fixed measuring stations to be installed and the spatial resolution of other techniques shall be sufficient for the concentrations of air pollutants to be established in accordance with Section I of Annex III and Section I of Annex IV.

12. Data quality objectives are laid down in Section I of Annex IV. Where air quality models are used for assessment, Section II of Annex IV shall apply.

13. The reference methods for the sampling and analysis of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air shall be as laid down in Sections I, II and III of Annex V. Section IV of Annex V sets out reference techniques for measuring the total deposition of arsenic, cadmium, mercury, nickel and the polycyclic aromatic hydrocarbons and Section V of Annex V refers to reference air quality modelling techniques when such techniques are available.

14. The date by which Member States shall inform the Commission of the methods used for the preliminary assessment of air quality under Article 11(1)(d) of Directive 96/62/EC shall be the date referred to in Article 10 of this Directive.

◆ 219/2009 Art. 1 and Annex .3(8)

15. Any amendments necessary to adapt the provisions of this Article and of Section II of Annex II and of Annexes III, IV and V to scientific and technical progress shall be adopted by the Commission. Those measures, designed to amend non-essential elements of this Directive, shall be adopted in accordance with the regulatory procedure with scrutiny referred to in Article 6(3). They may not result in any direct or indirect changes to target values.

◆ 2008/50 (adapted) ⇒ new

Article <u>97</u>

Sampling points

1. The location of sampling points for the measurement of sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter (PM₁₀ and PM_{2.5}), lead, benzene_± and carbon monoxide \boxtimes , arsenic, cadmium, nickel, benzo(a)pyrene \bigotimes in ambient air shall be determined \boxtimes in accordance with \bigotimes using the criteria listed in Annex IVIII.

 \boxtimes The location of sampling points for the measurement of ozone shall be determined in accordance with Annex IV. \bigotimes

2. In each zone or agglomeration where \Rightarrow the level of pollutants exceeds the assessment threshold specified in Annex II, \Leftrightarrow fixed measurements are the sole source of information for assessing air quality, the number of sampling points for each relevant pollutant shall not be less than the minimum number of sampling points specified in Section A Tables 3 and 4 of Points A and Point C, of Annex III \checkmark .

3. For zones and agglomerations \Rightarrow where the level of pollutants exceeds the relevant assessment threshold specified in Annex II, but not the respective limit values specified in Table 1 of Section 1 of Annex I, ozone target values specified in Section 2 of Annex I or critical levels specified in Section 3 of Annex I \Leftrightarrow within which information from fixed measurement sampling points is supplemented by information from modelling and/or indicative measurement, the total \Rightarrow minimum \Leftrightarrow number of sampling points specified in Section A of Annex V may be reduced by up to 50 %, \Rightarrow in accordance with Points A and C of Annex III \Leftrightarrow provided that the following conditions are met:

(a) the supplementary methods \Rightarrow indicative measurements and modelling \Leftrightarrow provide sufficient information for the assessment of air quality with regard to limit values \Rightarrow , ozone target values, critical levels, information thresholds and \Leftrightarrow or alert thresholds, as well as adequate information for the public \Rightarrow , in addition to the one provided by the fixed sampling points \Leftrightarrow ;

(b) the number of sampling points to be installed and the spatial resolution of other \Rightarrow indicative measurements and modelling \Rightarrow techniques are sufficient for the concentration of the relevant pollutant to be established in accordance with the data quality objectives specified in <u>Section</u> Points A and B of Annex <u>V</u> and enable assessment results to meet the eriteria \boxtimes requirements \bigotimes specified in Point <u>D</u> of Annex <u>V</u>; <u>I</u>

↓ new

(c) the number of indicative measurements is the same as the number of fixed measurements that are being replaced and the indicative measurements have a minimum duration of 2 months per calendar year;

(d) for ozone, nitrogen dioxide is measured at all remaining sampling points measuring ozone except at rural background locations for ozone assessment as referred to in Point B of Annex IV.

4. One or more sampling points adapted to the monitoring objective specified in Section 2, Point A of Annex VII, shall be installed in a Member State's territory to supply data on concentrations of the ozone precursor substances listed in Point B of that Section at locations determined in accordance with Point C of that Section.

✓ 2008/50 (adapted)
 ⇒ new

5.4. Each Member State shall, in accordance with Annex \underline{IVHI} , ensure that the distribution and the number of sampling points on which \boxtimes used for the calculation of \bigotimes the average exposure indicator \boxtimes indicators \bigotimes for PM_{2.5} \Rightarrow and NO₂, \Leftrightarrow is based reflect the general population exposure adequately. The number of sampling points shall be no less than that determined by application of <u>PointSection</u> B, of Annex <u>III¥</u>. <u>6.</u> The results of modelling \Rightarrow applications \Leftrightarrow and \neq or indicative measurement \boxtimes measurements \bigotimes shall be taken into account for the assessment of air quality with respect to the limit values \Rightarrow and ozone target values \Leftrightarrow .

[₽] new

7. Sampling points at which exceedances of any limit value specified in Section 1 of Annex I were recorded within the previous 3 years shall not be relocated, unless a relocation is necessary due to special circumstances, including spatial development. Relocation of sampling points shall be done within their area of spatial representativeness and be based on modelling results.

♦ 2008/50

4. The application in Member States of the criteria for selecting sampling points shall be monitored by the Commission so as to facilitate the harmonised application of those criteria throughout the European Union.

[↓] new

Article 10

Monitoring supersites

1. Each Member State shall establish at least one monitoring supersite per 10 million inhabitants at an urban background location. Member States that have fewer than 10 million inhabitants shall establish at least one monitoring supersite at an urban background location.

Each Member State shall establish at least one monitoring supersite per 100 000 km² at a rural background location. Member States whose territory is less than 100 000 km² shall establish at least one monitoring supersite at a rural background location.

2. The siting of monitoring supersites shall be determined for urban background locations and rural background locations in accordance with Point B of Annex IV.

3. All sampling points that fulfil the requirements laid down in Point B and C of Annex IV and which are installed at monitoring supersites may be taken into account for the purpose of meeting the requirements on the minimum number of sampling points for the relevant pollutants as specified in Annex III.

4. A Member State may set up in agreement with one or more neighbouring Member States to establish one or more joint monitoring supersites to meet the requirements set out in paragraph 1. This does not affect the obligation of each Member State to establish at least 1 monitoring supersite at an urban background location and 1 monitoring supersite at a rural background location.

5. Measurements at all monitoring supersites at urban background locations shall include fixed or indicative measurements of size distribution of ultrafine particles and particulate matter oxidative potential.

6. Measurements at all monitoring supersites at urban background locations and rural background locations shall include at least the following:

- (a) fixed measurements of particulate matter (PM₁₀ and PM_{2.5}), nitrogen dioxide (NO₂), ozone (O₃), black carbon (BC), ammonia (NH₃) and ultrafine particles (UFP).
- (b) fixed or indicative measurements of fine particulate matter (PM_{2.5}) for the purposes of providing, as a minimum, information on their total mass concentration and their chemical speciation concentrations on an annual average basis in accordance with Section 1 of Annex VII;
- (c) fixed or indicative measurements of arsenic, cadmium, nickel, total gaseous mercury, benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in Article 8(6), and of the total deposition of arsenic, cadmium, mercury, nickel, benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in Article 8(6), irrespective of concentration levels.

7. Measurements of particulate and gaseous divalent mercury may also be undertaken at monitoring supersites at urban background locations and rural background locations.

✓ 2008/50 (adapted)
 ⇒ new

<u>8.(e)</u> Where appropriate, monitoring shall be coordinated with the monitoring strategy and measurement programme of the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP) \Rightarrow , the Aerosol, Clouds and Trace Gases Research Infrastructure (ACTRIS), and the monitoring of air pollution impacts undertaken under Directive (EU) 2016/2284 \Leftrightarrow .

Article<u>11</u> §

Reference measurement methods \boxtimes and data quality objectives \oslash

1. Member States shall apply the reference measurement methods and criteria specified in $\frac{\text{Section A and Section C}}{\text{Points A and C}}$ of Annex VI.

2. ▷ However, ⊲ \underline{OO} ther measurement methods may be used subject to the conditions set out in <u>PointsSection</u> B, C, D and E_{$\overline{1}$} of Annex VI.

[↓] new

2. Air quality data shall meet the data quality objectives laid down in Annex V.

◆ 2008/50 (adapted) ⇒ new

SECTION 2

Assessment of ambient air quality in relation to ozone

Article 9

Assessment criteria

1. Where, in a zone or agglomeration, concentrations of ozone have exceeded the longterm objectives specified in Section C of Annex VII during any of the previous five years of measurement, fixed measurements shall be taken. 2. Where fewer than five years' data are available, Member States may, for the purposes of determining whether the long-term objectives referred to in paragraph 1 have been exceeded during those five years, combine the results from measurement campaigns of short duration carried out when and where levels are likely to be at their highest, with the results obtained from emission inventories and modelling.

Article 10

Sampling points

1. The siting of sampling points for the measurement of ozone shall be determined using the criteria set out in Annex VIII.

2. The sampling points for fixed measurements of ozone in each zone or agglomeration within which measurement is the sole source of information for assessing air quality shall not be less than the minimum number of sampling points specified in Section A of Annex IX.

3. For zones and agglomerations within which information from sampling points for fixed measurements is supplemented by information from modelling and/or indicative measurements, the number of sampling points specified in Section A of Annex IX may be reduced provided that the following conditions are met:

 (a) the supplementary methods provide sufficient information for the assessment of air quality with regard to target values, long-term objectives, information and alert thresholds;

(b) the number of sampling points to be installed and the spatial resolution of other techniques are sufficient for the concentration of ozone to be established in accordance with the data quality objectives specified in Section A of Annex I and enable assessment results to meet the criteria specified in Section B of Annex I;

(c) the number of sampling points in each zone or agglomeration amounts to at least one sampling point per two million inhabitants or one sampling point per 50000 km², whichever produces the greater number of sampling points, but must not be less than one sampling point in each zone or agglomeration;

(d) nitrogen dioxide is measured at all remaining sampling points except at rural background stations as referred to in Section A of Annex VIII.

The results of modelling and/or indicative measurement shall be taken into account for the assessment of air quality with respect to the target values.

5. In zones and agglomerations where, during each of the previous five years of measurement, concentrations are below the long-term objectives, the number of sampling points for fixed measurements shall be determined in accordance with Section B of Annex IX.

6. Each Member State shall ensure that at least one sampling point is installed and operated in its territory to supply data on concentrations of the ozone precursor substances listed in Annex X. Each Member State shall choose the number and siting of the stations at which ozone precursor substances are to be measured, taking into account the objectives and methods laid down in Annex X.

Article 11

Reference measurement methods

1. Member States shall apply the reference method for measurement of ozone, set out in point 8 of Section A of Annex VI. Other measuring methods may be used subject to the conditions set out in Section B of Annex VI.

CHAPTER III

AMBIENT AIR QUALITY MANAGEMENT

Article 12

Requirements where levels are lower than the limit values \boxtimes , ozone target value and average exposure concentration objectives, but above the assessment thresholds \bigotimes

<u>1.</u> In zones and agglomerations where the levels of sulphur dioxide, nitrogen dioxide, \boxtimes particulate matter (\boxtimes PM₁₀ and PM_{2.5}), lead, benzene, and carbon monoxide \Rightarrow , arsenic, cadmium, nickel and benzo(a)pyrene \Leftrightarrow in ambient air are below the respective limit values specified in <u>Section 1 of Annex I</u> <u>Annexes XI and XIV</u>, Member States shall maintain the levels of those pollutants below the limit values and shall endeavour to preserve the best ambient air quality, compatible with sustainable development.

Article 18

Requirements in zones and agglomerations where ozone concentrations meet the longterm objectives

<u>2.</u> In zones and agglomerations in which ozone levels \Rightarrow are below the ozone target value \Leftrightarrow meet the long-term objectives, Member States shall \Rightarrow take necessary measures to maintain those levels below the ozone target value and endeavour to attain the long-term objectives specified in Section 2 of Annex I \Leftrightarrow , in so far as factors including the transboundary nature of ozone pollution and meteorological conditions \boxtimes so \bigotimes permit, \Rightarrow and provided that any necessary measures do not entail a disproportionate cost. \Leftrightarrow maintain those levels below the long-term objectives.

[↓] new

3. In territorial units at NUTS 1 level as described in Regulation (EC) No 1059/2003 where the average exposure indicators for $PM_{2.5}$ and NO_2 are below the respective value of the average exposure concentration objectives for those pollutants as laid down in Section 5 of Annex I, Member States shall maintain the levels of those pollutants below the average exposure concentration objectives.

<u>4.</u> and \boxtimes Member States \bigotimes shall \Rightarrow endeavour to achieve and \Leftrightarrow preserve through proportionate measures the best ambient air quality compatible with sustainable development and a high level of environmental and human health protection \Rightarrow , in line with the air quality guidelines published by the WHO and below the assessment thresholds laid down in Annex II \Leftrightarrow .

Article 13

Limit values, is ozone target values ≪ and is average exposure reduction obligation ≪ lert thresholds for the protection of human health

1. Member States shall ensure that, throughout their zones and agglomerations, levels of sulphur dioxide, \Rightarrow nitrogen dioxide, particulate matter ($\Rightarrow PM_{10\overline{2}} \Rightarrow$ and $PM_{2.5}$), \Leftrightarrow lead, \Rightarrow benzene, \Rightarrow and carbon monoxide \Rightarrow , arsenic, cadmium, nickel and benzo(a)pyrene \Leftrightarrow in ambient air, do not exceed the limit values laid down in Section 1 of Annex IXI.

In respect of nitrogen dioxide and benzene, the limit values specified in Annex XI may not be exceeded from the dates specified therein.

Article 17

Requirements in zones and agglomerations where ozone concentrations exceed the target values and long-term-objectives

 $\underline{2.\underline{+}} \Leftrightarrow \text{For ozone}, \Leftrightarrow \text{Member States shall } \boxtimes \text{ ensure, by taking } \boxtimes \text{ take all necessary measures not entailing disproportionate costs, to ensure that } \boxtimes \text{ throughout the zone levels do not exceed } \boxtimes \text{ the } \ominus \text{ ozone } \Leftrightarrow \text{ target values and long-term objectives are attained } \boxtimes \text{, as laid down in Section 2, Point B, of Annex I } \boxtimes \text{.}$

Article 15

National PM2,5-exposure reduction target for the protection of human health

<u>3+</u>. Member States shall \boxtimes ensure that \bigotimes <u>take all necessary measures</u> not entailing disproportionate costs to reduce exposure to $PM_{2,5}$ with a view to attaining the national \Rightarrow average \Leftrightarrow exposure reduction target \Rightarrow obligations for $PM_{2,5}$ and $NO_2 \Leftrightarrow$ laid down in \boxtimes Section 5, Point B, of Annex I, \bigotimes <u>Section B of Annex XIV</u> \Rightarrow are met throughout their territorial units at NUTS 1 level, where they exceed the average exposure concentration objectives set out in Section 5, Point C, of Annex I. \Leftrightarrow by the year specified therein.

<u>4</u>. Compliance with these requirements \boxtimes paragraphs 1, 2 and 3 \bigotimes shall be assessed in accordance with <u>Annex IV</u> <u>Annex III</u>.

<u>5.</u> The average exposure indicator \boxtimes indicators \bigotimes for PM_{2,5} shall be assessed in accordance with Section <u>5, Point A</u>, of Annex <u>IXIV</u>.

<u>6.</u> The \Rightarrow deadline for attaining the limit values \Leftrightarrow margins of tolerance laid down in <u>Table 1</u> of Section 1 of Annex <u>IXI</u> shall apply \Rightarrow may be postponed \Leftrightarrow in accordance with Article <u>18(3) and Article 23(1)</u>.

[₽] new

7. Member States that introduce more stringent air quality standards, in accordance with Article 193 TFEU, shall notify them to the Commission within 3 months after their adoption. Such notification shall be accompanied by an explanation on the process of how those air quality standards have been established and the scientific information used.

Article 14

Critical levels \boxtimes for the protection of vegetation and natural ecosystems ${\boldsymbol{\bigotimes}}$

<u>**L**</u> Member States shall ensure compliance with the critical levels specified in <u>Section 3 of</u> Annex <u>**IXIII**</u> as assessed in accordance with <u>SectionPoint</u> $A_{\underline{i}}$ of Annex <u>**IVIII**</u>.

2. Where fixed measurements are the sole source of information for assessing air quality, the number of sampling points shall not be less than the minimum number specified in Section C of Annex V. Where that information is supplemented by indicative measurements or modelling, the minimum number of sampling points may be reduced by up to 50 % so long as the assessed concentrations of the relevant pollutant can be established in accordance with the data quality objectives specified in Section A of Annex I.

◆ 2004/107

Article 3

Target values

1. Member States shall take all necessary measures not entailing disproportionate costs to ensure that, as from 31 December 2012, concentrations of arsenic, cadmium, nickel and benzo(a)pyrene, used as a marker for the carcinogenic risk of polycyclic aromatic hydrocarbons, in ambient air, as assessed in accordance with Article 4, do not exceed the target values laid down in Annex I.

2. Member States shall draw up a list of zones and agglomerations in which the levels of arsenic, cadmium, nickel, and benzo(a)pyrene are below the respective target values. Member States shall maintain the levels of these pollutants in these zones and agglomerations below the respective target values and shall endeavour to preserve the best ambient air quality, compatible with sustainable development.

3. Member States shall draw up a list of the zones and agglomerations where the target values laid down in Annex I are exceeded.

For such zones and agglomerations, Member States shall specify the areas of exceedance and the sources contributing thereto. In the areas concerned, Member States shall demonstrate the application of all necessary measures not entailing disproportionate costs, directed in particular at the predominant emission sources, in order to attain the target values. In the case of industrial installations covered by Directive 96/61/EC this means the application of BAT as defined by Article 2(11) of that Directive.

✓ 2008/50 (adapted)
 ⇒ new

Article 16

PM_{2,5} target value and limit value for the protection of human health

1. Member States shall take all necessary measures not entailing disproportionate costs to ensure that concentrations of PM_{2,5}-in ambient air do not exceed the target value laid down in Section D of Annex XIV as from the date specified therein.

2. Member States shall ensure that concentrations of PM_{2,5} in ambient air do not exceed the limit value laid down in Section E of Annex XIV throughout their zones and agglomerations as from the date specified therein. Compliance with this requirement shall be assessed in accordance with Annex III.

3. The margin of tolerance laid down in Section E of Annex XIV shall apply in accordance with Article 23(1).

Article <u>1519</u>

Measures required in the event of information or \boxtimes Exceedances of \bigotimes alert \boxtimes or information \bigotimes thresholds being exceeded

<u>12</u> The alert thresholds for concentrations of sulphur dioxide, and nitrogen dioxide \Rightarrow , and particulate matter (PM₁₀ and PM_{2.5}) \Leftrightarrow in ambient air shall be those laid down in Section <u>4</u>, <u>Point</u> A of Annex <u>IXH</u>.

₿ new

2. The alert threshold and information threshold for ozone shall be that laid down in Section 4, Point B, of Annex I.

✓ 2008/50 (adapted)
 ⇒ new

<u>3.</u> Where the information threshold specified in Annex XII or any of the alert thresholds \boxtimes threshold or any information threshold \boxtimes laid down \boxtimes in Section 4 of Annex I \bigotimes therein is exceeded, Member States shall take the necessary steps to inform the public \Rightarrow within a few hours at the latest, making use of different media and communication channels and ensuring broad public access \Leftrightarrow means of radio, television, newspapers or the Internet.

[₽] new

4. Member States shall ensure that information about actual or predicted exceedances of any alert threshold or information threshold is provided to the public as soon as possible in accordance with, points 2 and 3 of Annex IX.

✓ 2008/50 (adapted)
 ⇒ new

Article <u>1620</u>

Contributions from natural sources

1. Member States \Rightarrow may \Leftrightarrow shall transmit to the Commission, for a given year, lists of \Rightarrow identify \Leftrightarrow :

(a)- zones and agglomerations where exceedances of limit values for a given pollutant are attributable to natural sources: \boxtimes and \bigotimes

₿ new

(b) NUTS 1 territorial units where exceedances of the level determined by the average exposure reduction obligations are attributable to natural sources.

✓ 2008/50 (adapted)
 ⇒ new

<u>2.</u> Member States shall provide \Rightarrow the Commission with lists of any such zones and NUTS 1 territorial units, as referred to in paragraph 1, together with \Leftrightarrow information on concentrations and sources and the evidence demonstrating that the exceedances are attributable to natural sources.

<u>32</u>. Where the Commission has been informed of an exceedance attributable to natural sources in accordance with paragraph <u>2+</u>, that exceedance shall not be considered as an exceedance for the purposes of this Directive.

3. The Commission shall by 11 June 2010 publish guidelines for demonstration and subtraction of exceedances attributable to natural sources.

Article <u>1721</u>

Exceedances attributable to winter-sanding or \boxtimes winter \bigotimes -salting of roads

1. Member States may \Rightarrow , for a given year, \Leftrightarrow designate \boxtimes identify \bigotimes zones or agglomerations within which limit values for PM₁₀ are exceeded in ambient air due to the resuspension of particulates following winter-sanding or \boxtimes winter \bigotimes -salting of roads.

2. Member States shall \boxtimes provide \bigotimes send the Commission \boxtimes with \bigotimes lists of any such zones \Rightarrow , as referred to in paragraph 1 \Leftrightarrow or agglomerations together with information on concentrations and sources of PM₁₀ \Rightarrow in such zones. \Leftrightarrow therein.

3. When informing the Commission in accordance with Article 27, Member States shall \boxtimes also \boxtimes provide the necessary evidence to demonstrate \boxtimes demonstrating \boxtimes that any exceedances are due to re-suspended particulates and that reasonable measures have been taken to lower \boxtimes such \boxtimes the concentrations.

<u>34</u>. Without prejudice to Article <u>1620</u>, in the case of zones and <u>agglomerations</u> referred to in paragraph 1 of this Article, Member States need to establish the air quality plan provided for in Article <u>1923</u> only in so far as exceedances are attributable to PM₁₀ sources other than winter-sanding or \boxtimes winter \bigotimes -salting of roads.

5. The Commission shall by 11 June 2010 publish guidelines for determination of contributions from the re-suspension of particulates following winter-sanding or -salting of roads.

Article <u>1822</u>

Postponement of attainment deadline and exemption from the obligation to apply certain limit values

1. Where, in a given zone or agglomeration, conformity with the limit values for \Rightarrow particulate matter (PM₁₀ and PM_{2.5}) or \Leftrightarrow nitrogen dioxide or benzene cannot be achieved by the \boxtimes deadline \bigotimes deadlines specified in Table 1 of Section 1 of Annex IXI, \Rightarrow because of site-specific dispersion characteristics, orographic boundary conditions, adverse climatic

conditions or transboundary contributions, \Leftarrow a Member State may postpone those deadlines - \Rightarrow that deadline once \Leftrightarrow by a maximum of \boxtimes 5 \bigotimes five years for that particular zone or agglomeration, on condition \boxtimes if the following conditions are met: \bigotimes

✓ 2008/50 (adapted)
 ⇒ new

- (a) that an air quality plan is established in accordance with <u>Article 19(4)</u> \boxtimes and meeting the requirements listed in Article 19(5) to (7) \boxtimes of Article 23 for the zone or agglomeration to which the postponement would apply;
- (c) the air quality plan referred to in point (a) outlines how the public and, in particular, sensitive population and vulnerable groups will be informed about the consequences of the postponement for human health and the environment;
- (d) the air quality plan referred to in point (a) outlines how additional funding, including via relevant national and Union funding programmes, will be mobilised to accelerate the improvement of air quality in the zone to which the postponement would apply;

✓ 2008/50 (adapted)
 ⇒ new

↓ new

2. Where, in a given zone or agglomeration, conformity with the limit values for PM₁₀ as specified in Annex XI cannot be achieved because of site-specific dispersion characteristics, adverse climatic conditions or transboundary contributions, a Member State shall be exempt from the obligation to apply those limit values until 11 June 2011 provided that the conditions laid down in paragraph 1 are fulfilled and that the Member State shows that all appropriate measures have been taken at national, regional and local level to meet the deadlines.

3. Where a Member State applies paragraphs 1 or 2, it shall ensure that the limit value for each pollutant is not exceeded by more than the maximum margin of tolerance specified in Annex XI for each of the pollutants concerned.

<u>24</u>. Commission Member States shall notify the where, in their view. <u>paragraphparagraphs</u> 1 or $\frac{2}{1}$ is \bigotimes are applicable, and shall communicate the air quality plan referred to in paragraph 1 including \boxtimes and \bigotimes all relevant information necessary for the Commission to assess whether $\frac{1}{2}$ the invoked reason for postponement and \Leftrightarrow the relevant conditions \boxtimes set out in that paragraph \bigotimes are satisfied. In its assessment, the Commission shall take into account estimated effects on ambient air quality in the Member States, at present and in the future, of measures that have been taken by the Member States as well as estimated effects on ambient air quality of $\frac{1}{2}$ community \boxtimes Union \bigotimes measures and planned Community measures to be proposed by the Commission.

Where the Commission has raised no objections within $\boxtimes 9 \otimes \overline{\text{mine}}$ months of receipt of that notification, the relevant conditions for the application of <u>paragraphparagraphs</u> 1 or 2 shall be deemed to be satisfied.

If objections are raised, the Commission may require Member States to adjust or provide new air quality plans.

CHAPTER IV

PLANS

Article <u>1923</u>

Air quality plans

1. Where, in given zones or agglomerations, the levels of pollutants in ambient air exceed any limit value \Rightarrow , laid down in Section 1 of Annex I, \Leftrightarrow or target value, plus any relevant margin of tolerance in each case. Member States shall \boxtimes establish \bigotimes ensure that air quality plans are established for those zones and agglomerations \Rightarrow as soon as possible and no later than 2 years after the calendar year during which that exceedance of any limit value was recorded. Those air quality plans shall set out appropriate measures \Leftrightarrow in order to achieve the \boxtimes concerned \bigotimes related limit value or target value specified in Annexes XI and XIV. \Rightarrow and to keep the exceedance period as short as possible, and in any case no longer than 3 years from the end of the calendar year in which the first exceedance was reported . \Leftrightarrow

↓ new

Where exceedances of any limit values persist during the third calendar year after the establishment of the air quality plan, Member States shall update the air quality plan and the measures therein, and take additional and more effective measures, in the subsequent calendar year to keep the exceedance period as short as possible.

2. Where in a given NUTS 1 territorial unit, the levels of pollutants in ambient air exceed the ozone target value, laid down in Section 2 of Annex I, Member States shall establish air quality plans for those NUTS 1 territorial units as soon as possible and no later than 2 years after the calendar year during which the exceedance of the ozone target value was recorded. Those air quality plans shall set out appropriate measures in order to achieve the ozone target value and to keep the exceedance period as short as possible.

Where exceedances of the ozone target value persist during the fifth calendar year after the establishment of the air quality plan in the relevant NUTS 1 territorial unit, Member States shall update air quality plan and the measures therein, and take additional and more effective measures, in the subsequent calendar year to keep the exceedance period as short as possible.

For NUTS 1 territorial units where the ozone target value is exceeded, Member States shall ensure that the relevant national air pollution control programme prepared pursuant to Article 6 of Directive (EU) 2016/2284 includes measures addressing those exceedances.

3. Where in a given NUTS 1 territorial unit, the average exposure reduction obligation laid down in Section 5 of Annex I is exceeded, Member States shall establish air quality plans for those NUTS 1 territorial units as soon as possible and no later than 2 years after the calendar year during which the exceedance of the average exposure reduction obligation was recorded. Those air quality plans shall set out appropriate measures to achieve the average exposure reduction obligation and to keep the exceedance period as short as possible.

Where exceedances of the average exposure reduction obligation persist during the fifth calendar year after the establishment of the air quality plan, Member States shall update the air quality plan and the measures therein, and take additional and more effective measures, in the subsequent calendar year to keep the exceedance period as short as possible.

4. Where from [insert year 2 years after entry into force of this Directive], until 31 December 2029 in a zone or NUTS 1 territorial unit, the levels of pollutants are above any limit value to be attained by 1 January 2030 as laid down in Table 1 of Section 1 of Annex I, Member States shall establish an air quality plan for the concerned pollutant as soon as possible and no later than 2 years after the calendar year during which the exceedance of the was recorded to attain the respective limit values or ozone target value by the expiration of the attainment deadline.

Where, for the same pollutant, Member States are required to establish an air quality plan in accordance with this paragraph as well as an air quality plan in accordance with Article 19(1), they may establish a combined air quality plan in accordance with Article 19(5), (6) and (7) and provide information on the expected impact of measures to reach compliance for each limit value it addresses, as required by in Annex VIII, points 5 and 6. Any such combined air quality plan shall set out appropriate measures to achieve all related limit values and to keep all exceedance periods as short as possible.

5. Air quality plans shall contain at least the following information:

- (a) the information listed in Point A, points 1 to 6 of Annex VIII;
- (b) where applicable, the information listed in Point A, points 7 and 8, of Annex VIII;
- (c) where appropriate, information on abatement measures listed in Point B, Point 2 of Annex VIII.

✓ 2008/50 (adapted)
⇒ new

 \Rightarrow Member States shall consider including measures referred to in Article 20(2) and \Leftrightarrow The air quality plans may additionally include specific measures aiming at the protection of sensitive population \Rightarrow and vulnerable \Leftrightarrow groups , including children \boxtimes in their air quality plans \bigotimes .

♣ new

Regarding the pollutants concerned, when preparing air quality plans, Member States shall assess the risk of exceeding the respective alert thresholds. That analysis shall be used for establishing short-term action plans where applicable.

✓ 2008/50 (adapted)
 ⇒ new

Where air quality plans $\xrightarrow{\text{must}} \boxtimes$ shall be established \bigotimes be prepared or implemented in respect of several pollutants \boxtimes or air quality standards \bigotimes , Member States shall, where appropriate, prepare and implement \boxtimes establish \bigotimes integrated air quality plans covering all pollutants \Rightarrow and air quality standards \Leftrightarrow concerned.

 $\frac{2}{2}$. Member States shall, to the extent feasible, ensure consistency of their air quality plans with other plans ⇒ that have a significant impact on air quality, including those ⇔ required under Directive $\frac{2001/80/EC}{2010/75/EU}$ 2010/75/EU of the European Parliament and of the Council⁷⁸, Directives (EU) 2016/2284= $\frac{2001/81/EC}{2001/81/EC}$ or \boxtimes and \boxtimes 2002/49/EC \implies and under climate, energy, transport and agriculture legislation \Leftarrow .

₿ new

6. Member States shall consult the public, in accordance with Directive 2003/35/EC of the European Parliament and of the Council⁷⁹, and the competent authorities, which, by reason of their responsibilities in the field of air pollution and air quality, are likely to be concerned by the implementation of the air quality plans, on draft air quality plans and any significant updates of air quality plans prior to their finalisation.

When preparing air quality plans, Member States shall ensure that stakeholders whose activities contribute to the exceedance situation are encouraged to propose measures they are able to take to help end the exceedances and that non-governmental organisations, such as environmental organisations, consumer organisations, organisations representing the interests of sensitive population and vulnerable groups, other relevant health-care bodies and the relevant industrial federations are allowed to take part in those consultations.

✓ 2008/50 (adapted)
 ⇒ new

<u>7.</u> Those \boxtimes Air quality \bigotimes plans shall be communicated to the Commission \Rightarrow within 2 months after their adoption \Leftrightarrow without delay, but no later than two years after the end of the year the first exceedance was observed.

Article <u>2024</u>

Short-term action plans

1. Where, in a given zone or agglomeration, there is a risk that the levels of pollutants will exceed one or more of the alert thresholds specified in Section 4 of Annex IXII, Member States shall draw up \boxtimes short-term \bigotimes action plans indicating the \Rightarrow emergency \Leftrightarrow measures to be taken in the short term in order to reduce the risk or duration of such an exceedance. Where this risk applies to one or more limit values or target values specified in Annexes VII, XI and XIV, Member States may, where appropriate, draw up such short-term action plans.

However, where there is a risk that the alert threshold for ozone Member States shall only draw \Rightarrow may refrain from drawing \Rightarrow up such short-term action plans when in their opinion there is \Rightarrow no \Rightarrow a significant potential, taking into account national geographical, meteorological and economic conditions, to reduce the risk, duration or severity of such an exceedance. When drawing up such a short-term action plan Member States shall take account of Decision 2004/279/EC.

 ⁷⁸ Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (OJ L 334, 17.12.2010, p. 17).

⁷⁹ Directive 2003/35/EC of the European Parliament and of the Council of 26 May 2003 providing for public participation in respect of the drawing up of certain plans and programmes relating to the environment and amending with regard to public participation and access to justice Council Directives 85/337/EEC and 96/61/EC (OJ L 156, 25.6.2003, p. 17).

2. \boxtimes When drawing up the \bigotimes The short-term action plans referred to in paragraph 1 \boxtimes Member States \bigotimes may, depending on the individual case, provide for effective measures to control and, where necessary, \Rightarrow temporarily \Leftrightarrow suspend activities which contribute to the risk of the respective limit values or target values or alert threshold being exceeded. Those \Rightarrow Depending on the share of the main pollution sources to the exceedances to be addressed, those short-term \Leftrightarrow action plans \Rightarrow shall consider including \Leftrightarrow may include measures in relation to \Rightarrow transport \Leftrightarrow motor-vehicle traffic, construction works, ships at berth, and the use of industrial \Rightarrow installations \Leftrightarrow plants or \Rightarrow and the use of \Leftrightarrow products and domestic heating. Specific actions aiming at the protection of sensitive population \Rightarrow and vulnerable \Leftrightarrow groups, including children, \Rightarrow shall \Leftrightarrow may also be considered in the framework of those plans.

↓ new

↓ 2008/50 ⇒ new

[↓] new

3. Member States shall consult the public in accordance with Directive 2003/35/EC, and the competent authorities, which, by reason of their responsibilities in the field of air pollution and air quality, are likely to be concerned by the implementation of the short-term action plan, on draft short-term action plans and any significant updates thereof prior to their finalisation.

<u>43</u>. When Member States have drawn up a short-term action plan, they shall make available to the public and to appropriate organisations such as environmental organisations, consumer organisations, organisations representing the interests of sensitive population \Rightarrow and vulnerable \Leftrightarrow groups, other relevant health-care bodies and the relevant industrial federations both the results of their investigations on the feasibility and the content of specific short-term action plans as well as information on the implementation of these plans.

5. Member States shall submit short-term action plans to the Commission within 2 months after their adoption.

✓ 2008/50 (adapted)⇒ new

4. For the first time before 11 June 2010 and at regular intervals thereafter, the Commission shall publish examples of best practices for the drawing-up of short-term action plans, including examples of best practices for the protection of sensitive population groups, including children.

Article <u>2125</u>

Transboundary air pollution

1. Where \Rightarrow transboundary transport of air pollution from one or more Member State contributes significantly to the exceedance of \Leftrightarrow any alert threshold, limit value, or \boxtimes ozone \boxtimes target value, plus any relevant margin of tolerance \Rightarrow average exposure reduction obligation or \Leftrightarrow \boxtimes alert threshold \bigotimes or long-term objective is exceeded due to significant transboundary transport of air pollutants or their precursors, \Rightarrow in another Member

State, the latter shall notify the Member States from which the air pollution originated and the Commission thereof. ⇐

<u>T</u>the Member States concerned shall cooperate \Rightarrow to identify the sources of air pollution and the measures to be taken to address those sources, \Leftrightarrow and, where appropriate, draw up joint activities, such as the preparation of joint or coordinated air quality plans pursuant to Article <u>1923</u>, in order to remove such exceedances through the application of appropriate but proportionate measures.

[↓] new

Member States shall respond to each other in a timely manner, and no later than 3 months after being notified by another Member State in accordance with the first subparagraph.

✓ 2008/50 (adapted)
 ⇒ new

2. The Commission shall be \Rightarrow informed of, and \Rightarrow invited to be present and to assist in any cooperation referred to in paragraph 1 \boxtimes of this Article \bigotimes . Where appropriate, the Commission shall, taking into account the reports established pursuant to Article <u>119</u> of Directive (EU) 2016/2284 <u>2001/81/EC</u>, consider whether further action shall be taken at Community \boxtimes Union \bigotimes level in order to reduce precursor emissions responsible for transboundary pollution.

3. Member States shall, if appropriate pursuant to Article 2024, prepare and implement joint short-term action plans covering neighbouring zones in other Member States. Member States shall ensure that neighbouring zones in other Member States which have developed short-term action plans receive all appropriate information \Rightarrow regarding these short-term action plans without undue delay \Leftarrow .

4. Where the information threshold or alert thresholds are exceeded in zones or agglomerations close to national borders, information \boxtimes on these exceedances $\langle \boxtimes \rangle$ shall be provided as soon as possible to the competent authorities in the neighbouring Member States concerned. That information shall also be made available to the public.

5. In drawing up plans as provided for in paragraphs 1 and 3 and in informing the public as referred to in paragraph 4, Member States shall, where appropriate, endeavour to pursue cooperation with third countries, and in particular with candidate countries.

CHAPTER V

INFORMATION AND REPORTING

Article <u>2226</u>

Public information

1. Member States shall ensure that the public as well as appropriate organisations such as environmental organisations, consumer organisations, organisations representing the interests of sensitive populations \Rightarrow and vulnerable groups \Leftrightarrow , other relevant health-care bodies and the relevant industrial federations are informed, adequately and in good time, of the following:

	 ✓ 2008/50 ⇒ new
(b)	any postponement decision $\frac{1}{2}$ pursuant to Article $\frac{1822(1)}{2}$;
	(c) any exemptions pursuant to Article 22(2);
(c)	<u>(d)</u> air quality plans as provided for in Article $\frac{22(1)}{22(1)}$ and $\frac{19}{22}$ and programmes referred to in Article 17(2).
	↓ new
(d)	short-term action plans as provided for in Article 20;
	 ✓ 2008/50 (adapted) ⇒ new
(c)	-2. Member States shall make available to the public annual reports for all pollutants covered by this Directive.
	Those reports shall summarise the levels exceeding limit values, target values, long-term objectives, information thresholds and alert thresholds, for the relevant averaging periods. That information shall be combined with a summary assessment of the effects of those exceedances \Rightarrow of limit values, ozone target values, average exposure reduction obligations, information thresholds and alert thresholds in a summary assessment $\Leftrightarrow := The \Rightarrow$ the summary assessment $\Leftrightarrow reports \Rightarrow$ shall $\Leftrightarrow may$ include, where appropriate, further information and assessments on forest protection as well as information on other pollutants \Rightarrow covered by Article 10 and Annex VII. \Leftrightarrow for which monitoring provisions are specified in this Directive, such as, <i>inter alia</i> , selected non-regulated ozone precursor substances as listed in Section B, of Annex X.

[₽] new

2. Member States shall establish an air quality index covering sulphur dioxide, nitrogen dioxide, particulate matter (PM_{10} and $PM_{2.5}$) and ozone, and make it available through a public source providing an hourly update. The air quality index shall consider the recommendations by the WHO and build on the air quality indices at European scale provided by the European Environmental Agency.

✓ 2008/50 (adapted)
 ⇒ new

<u>3.</u> Member States shall inform the public of the competent authority or body designated in relation to the tasks referred to in Article <u>53</u>.

(a)

<u>4.</u> The information \Rightarrow referred to in this Article \Leftrightarrow shall be made available \boxtimes to the public \boxtimes free of charge by means of any easily accessible media \Rightarrow and communication channels \Leftrightarrow including the Internet or any other appropriate means of telecommunication, and shall take into account the provisions laid down in \boxtimes accordance with \bigotimes Directive 2007/2/EC⁸⁰ \Rightarrow and Directive (EU)2019/1024⁸¹ of the European Parliament and of the Council \Leftrightarrow .

▶ 2004/107

Article 7

Public information

1. Member States shall ensure that clear and comprehensible information is accessible and is routinely made available to the public as well as to appropriate organisations, such as environmental organisations, consumer organisations, organisations representing the interests of sensitive populations and other relevant healthcare bodies, on ambient air concentrations of arsenic, cadmium, mercury, nickel and benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in Article 4(8) as well as on deposition rates of arsenic, cadmium, mercury, nickel and benzo(a)pyrene and the other polycyclic aromatic hydrocarbons referred to in Article 4(8).

2. The information shall also indicate any annual exceedance of the target values for arsenic, cadmium, nickel and benzo(a)pyrene laid down in Annex I. The information shall give the reasons for the exceedance and the area to which it applies. It shall also provide a short assessment in relation to the target value and appropriate information regarding effects on health and impact on the environment.

Information on any measures taken pursuant to Article 3 shall be made available to the organisations referred to in paragraph 1 of this Article.

3. The information shall be made available by means of, for example, Internet, press and other easily accessible media.

Article 5

Transmission of information and reporting

1. With regard to the zones and agglomerations where any of the target values laid down in Annex I is exceeded, Member States shall forward the following information to the Commission:

- (a) the lists of the zones and agglomerations concerned,
- (b) the areas of exceedance,
- (c) the concentration values assessed,
- (d) the reasons for exceedance, and in particular any sources contributing to it,
- (e) the population exposed to such exceedance.

⁸¹ Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information (OJ L 172, 26.6.2019, p. 56).

 ⁸⁰ Directive 2007/2/EC of the European Parliament and the Council of 14 March 2007 establishing an infrastructure for spatial information in the European Community (INSPIRE) (OJ L 108, 25.4.2007, p. 1).

Member States shall also report all data assessed in accordance with Article 4, unless already reported under Council Decision 97/101/EC of 27 January 1997 establishing a reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within the Member States⁸².

The information shall be transmitted for each calendar year, by no later than 30 September of the following year, and for the first time for the calendar year following 15 February 2007.

2. In addition to the requirements laid down in paragraph 1, Member States shall also report any measures taken pursuant to Article 3.

3. The Commission shall ensure that all information submitted pursuant to paragraph 1 is promptly made available to the public by appropriate means, such as Internet, press and other casily accessible media.

◆ 219/2009 Art. 1 and Annex .3(8)

4. The Commission shall adopt, in accordance with the regulatory procedure referred to in Article 6(2), any detailed arrangements for forwarding the information to be provided under paragraph 1 of this Article.

✓ 2008/50 (adapted)
 ⇒ new

Article <u>2327</u>

Transmission of information and reporting

<u>1.</u> Member States shall ensure that information on ambient air quality is made available to the Commission within the required timescale \Rightarrow in accordance with the implementing acts referred to in paragraph 5, and irrespective of compliance with data quality objectives laid down in Annex V \Leftrightarrow as determined by the implementing measures referred to in Article 28(2).

2. In any event, fF or the specific purpose of assessing compliance with the limit values, \Rightarrow ozone target values, average exposure reduction obligations \Leftrightarrow and critical levels and the attainment of target values, such \boxtimes the \bigotimes information \Rightarrow referred to in paragraph 1 \Leftrightarrow shall be made available to the Commission no later than $\Rightarrow 4 \Leftrightarrow \underline{\text{mine}}$ months after the end of each calendar year and shall include:

(a) the changes made in that year to the list and delimitation of zones and agglomerations established under Article $\underline{64} \Rightarrow$ or any NUTS 1 territorial unit \Leftrightarrow ;

(b) the list of zones and agglomerations \Rightarrow and NUTS 1 territorial units and the levels of pollutants assessed. For zones \Leftrightarrow in which the levels of one or more pollutants are higher than the limit values plus the margin of tolerance where applicable or higher than target values or critical levels \Rightarrow , as well as for NUTS 1 territorial units where the levels of one or more pollutants are higher than the target values of one or more pollutants are higher than target values of one or more pollutants are higher than target values of one or m

⁸² OJ L 35, 5.2.1997, p. 14. Decision as amended by Commission Decision 2001/752/EC (OJ L 282, 26.10.2001, p. 69).

values or average exposure reduction obligations: \leftarrow = = and for these zones and agglomerations:

(i) levels assessed and, if relevant, the dates and periods when such levels were observed;

(ii) if appropriate, an assessment on contributions from natural sources and from re-suspension of particulates following winter $\underline{=}$ sanding or \boxtimes winter $\underline{\subseteq}$ salting of roads to the levels assessed, as declared to the Commission under Articles <u>16 and 1720 and 21</u>.

3. Paragraphs 1 and 2 shall apply to information collected as from the beginning of the second calendar year after the entry into force of the implementing measures referred to in Article 28(2).

<u>3.</u> Member States shall also forward \boxtimes report \bigotimes to the Commission \Rightarrow in accordance with paragraph 1 \Leftrightarrow_{Ξ} on a provisional basis, information concerning the levels recorded and the duration of the periods during which the alert threshold or information threshold was exceeded.

[↓] new

4. Member States shall provide information listed in Point D of Annex IV to the Commission within 3 months of being requested to do so.

5. The Commission shall adopt, as appropriate, by means of implementing acts, measures:

- (a) determining the additional information to be made available by Member States pursuant to this Article as well as the timescales in which such information is to be communicated;
- (b) identifying ways of streamlining the way data are reported and the reciprocal exchange of information and data from networks and individual sampling points measuring ambient air pollution within Member States.

Those implementing acts shall be adopted in accordance with the examination procedure referred to Article 26(2).

CHAPTER VI

DELEGATED AND IMPLEMENTING ACTS

↓ 2008/50 (adapted)

Article <u>2428</u>

Implementing measures 🗵 Amendments to Annexes 🖾

₿ new

The Commission is empowered to adopt delegated acts in accordance with Article 25 amending Annexes II to IX to take account of technical and scientific developments regarding

assessment of ambient air quality, information to be included in air quality plans, and public information.

✓ 2008/50 (adapted)
 ⇒ new

Measures designed to amend the non-essential elements of this Directive, namely Annexes I to VI, Annexes VIII to X and Annex XV, shall be adopted in accordance with the regulatory procedure with scrutiny referred to in Article 29(3).

However, the amendments may not have the effect of directly or indirectly modifying either of the following:

(a) the limit values, \Rightarrow ozone target values \Rightarrow \Rightarrow and long-term objectives \Leftrightarrow exposure reduction targets, critical levels, target values, information or alert \Rightarrow and information \Leftrightarrow thresholds \Rightarrow , average exposure reduction obligations and average exposure concentration objectives \Leftrightarrow or long-term objectives specified in Annex IVII and Annexes XI to XIV;

(b) the dates for compliance with any of the parameters referred to in point (a).

2. The Commission shall, in accordance with the regulatory procedure referred to in Article 29(2), determine the additional information to be made available by Member States pursuant to Article 27 as well as the timescales in which such information is to be communicated.

The Commission shall also identify ways of streamlining the way data are reported and the reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within the Member States, in accordance with the regulatory procedure referred to in Article 29(2).

3. The Commission shall draw up guidelines for the agreements on setting up common measuring stations as referred to in Article 6(5).

4. The Commission shall publish guidance on the demonstration of equivalence referred to in Section B of Annex VI.

[₽] new

Article 25

Exercise of delegation

1. The power to adopt delegated acts is conferred on the Commission subject to the conditions laid down in this Article.

2. The power to adopt delegated acts referred to in Article 24 shall be conferred on the Commission for an indeterminate period of time from ... [date of entry into force of this Directive].

3. The delegation of power referred to in Article 24 may be revoked at any time by the European Parliament or by the Council. A decision to revoke shall put an end to the delegation of the power specified in that decision. It shall take effect the day following the

publication of the decision in *the Official Journal of the European Union* or at a later date specified therein. It shall not affect the validity of any delegated acts already in force.

4. Before adopting a delegated act, the Commission shall consult experts designated by each Member State in accordance with the principles laid down in the Interinstitutional Agreement on Better Law-Making.

5. As soon as it adopts a delegated act, the Commission shall notify it simultaneously to the European Parliament and to the Council.

A delegated act adopted pursuant to Article 24 shall enter into force only if no objection has been expressed either by the European Parliament or by the Council within a period of 2 months of notification of that act to the European Parliament and to the Council or if, before the expiry of that period, the European Parliament and the Council have both informed the Commission that they will not object. That period shall be extended by 2 months at the initiative of the European Parliament or of the Council.

✓ 2008/50 (adapted)
 ⇒ new

Article <u>2629</u>

Committee ⊠ procedure ≪

2. Where reference is made to this paragraph, Articles 5 and 7 of Decision 1999/468/EC ⇒ Article 5 of Regulation (EU) 182/2011 ⇔ shall apply, having regard to the provisions of Article 8 thereof.

The period laid down in Article 5(6) of Decision 1999/468/EC shall be set at three months.

3. Where reference is made to this paragraph, Article 5a(1) to (4) and Article 7 of Decision 1999/468/EC shall apply, having regard to the provisions of Article 8 thereof.

▶ 2004/107

Article 6

Committee

1. The Commission shall be assisted by the committee established by Article 12(2) of Directive 96/62/EC.

2. Where reference is made to this Article, Articles 5 and 7 of Decision 1999/468/EC shall apply, having regard to the provisions of Article 8 thereof.

The period laid down in Article 5(6) of Decision 1999/468/EC shall be set at three months.

↓ 219/2009 Art.	1	and Annex
.3(8)		

3. Where reference is made to this paragraph, Article 5a(1) to (4) and Article 7 of Decision 1999/468/EC shall apply, having regard to the provisions of Article 8 thereof.

[↓] new

CHAPTER VII

ACCESS TO JUSTICE, COMPENSATION AND PENALTIES

Article 27

Access to justice

1. Member States shall ensure that, in accordance with their national legal system, members of the public concerned have access to a review procedure before a court of law, or another independent and impartial body established by law, to challenge the substantive or procedural legality of all decisions, acts or omissions concerning air quality plans referred to in Article 19, and short term action plans referred to in Article 20, of the Member State, provided that any of the following conditions is met:

- (a) the members of the public understood as one or more natural or legal persons and, in accordance with national law or practice, their associations, organisations or groups, have a sufficient interest;
- (b) where the applicable law of the Member State requires this as a precondition, the members of the public maintain the impairment of a right.

Member States shall determine what constitutes a sufficient interest and impairment of a right consistently with the objective of giving the public concerned wide access to justice.

The interest of any non-governmental organisation which is a member of the public concerned shall be deemed sufficient for the purposes of the first paragraph, point (a). Such organisations shall also be deemed to have rights capable of being impaired for the purposes of the first paragraph, point (b).

2. To have standing to participate in the review procedure shall not be conditional on the role that the member of the public concerned played during a participatory phase of the decision-making procedures related to Article 19 or 20.

3. The review procedure shall be fair, equitable, timely and not prohibitively expensive, and shall provide adequate and effective redress mechanisms, including injunctive relief as appropriate.

4. This Article does not prevent Member States from requiring a preliminary review procedure before an administrative authority and does not affect the requirement of exhaustion of administrative review procedures prior to recourse to judicial review procedures, where such a requirement exists under national law.

5. Member States shall ensure that practical information is made available to the public on access to administrative and judicial review procedures referred to in this Article.

Article 28

Compensation for damage to human health

1. Member States shall ensure that natural persons who suffer damage to human health caused by a violation of Articles 19(1) to 19(4), 20(1) and 20(2), 21(1) second sub-paragraph and 21(3) of this Directive by the competent authorities are entitled to compensation in accordance with this article.

2. Member States shall ensure that non-governmental organisations promoting the protection of human health or the environment and meeting any requirements under national law are allowed to represent natural persons referred to in paragraph 1 and bring collective actions for compensation. The requirements set out in Article 10 and Article 12(1) of Directive (EU) 2020/1828 shall mutatis mutandis apply to such collective actions.

3. Member States shall ensure that a claim for compensation for a violation can be pursued only once by a natural person referred to in paragraph 1 and by the non-governmental organisations representing the person referred to in paragraph 2. Member States shall lay down rules to ensure that the individuals affected do not receive compensation more than once for the same cause of action against the same competent authority.

4. Where a claim for compensation is supported by evidence showing that the violation referred to in paragraph 1 is the most plausible explanation for the occurrence of the damage of that person, the causal link between the violation and the occurrence of the damage shall be presumed.

The respondent public authority shall be able to rebut this presumption. In particular, the respondent shall have the right to challenge the relevance of the evidence relied on by the natural person and the plausibility of the explanation put forward.

5. Member States shall ensure that national rules and procedures relating to claims for compensation, including as concerns the burden of proof, are designed and applied in such a way that they do not render impossible or excessively difficult the exercise of the right to compensation for damage pursuant to paragraph 1.

6. Member States shall ensure that the limitation periods for bringing actions for compensation as referred to in paragraph 1 are not less than 5 years. Such periods shall not begin to run before the violation has ceased and the person claiming the compensation knows, or can reasonably be expected to know, that he or she suffered damage from a violation as referred to in paragraph 1.

▶ 2004/107 (adapted)

Article 9

Penalties

Member States shall determine the penaltics applicable to infringements of the national provisions adopted pursuant to this Directive and shall take all the measures necessary to ensure that they are implemented. The penaltics provided for must be effective, proportionate and dissuasive.

Article <u>2930</u>

Penalties

⇒ 1. Without prejudice to the obligations of Member States under Directive 2008/99/EC of the European Parliament and of the Council⁸³, \ominus Member States shall lay down the rules on penalties applicable to infringements \boxtimes violations $\bigotimes \Rightarrow$ by natural and legal persons, \ominus of the national provisions adopted pursuant to this Directive and shall \boxtimes ensure that those rules \bigotimes take all measures necessary to ensure that they are implemented. The penalties provided for \boxtimes shall \bigotimes must be effective, proportionate and dissuasive. \Rightarrow Member States shall notify the Commission without undue delay of those rules and of any amendment thereof. \Leftarrow

[₽] new

2. The penalties referred to in paragraph 1 shall include fines proportionate to the turnover of the legal person or to the income of the natural person having committed the violation. The level of the fines shall be calculated in such a way as to make sure that they effectively deprive the person responsible for the violation of the economic benefits derived from that violation. In the case of a violation committed by a legal person, such fines shall be proportionate to the legal person's annual turnover in the Member State concerned, taking account, *inter alia*, the specificities of small and medium-sized enterprises (SMEs).

3. Member States shall ensure that the penalties referred to in paragraph 1 give due regard to the following circumstances, as applicable:

(a) the nature, gravity, extent and duration of the violation;

(b) the intentional or negligent character of the violation;

(c) the population, including sensitive population and vulnerable groups, or the environment affected by the violation, taking into account the objective of achieving a high level of protection of human health and the environment;

(d) the repetitive or singular character of the violation.

✓ 2008/50 (adapted)
 ⇒ new

CHAPTER VIII

COMMITTEE, TRANSITIONAL AND FINAL PROVISIONS

Article <u>3031</u>

Repeal and transitional provisions

⁸³ Directive 2008/99/EC of the European Parliament and of the Council of 19 November 2008 on the protection of the environment through criminal law (OJ L 328, 6.12.2008, p. 28).

1. Directives 96/62/EC, 1999/30/EC, 2000/69/EC and $2002/3/EC \ge 2004/107/EC$ and 2008/50/EC, as amended by the Directives listed in Part A of Annex X, are \bigotimes shall be repealed as \boxtimes with effect \bigotimes from \Rightarrow [insert date 1 day after end of transposition deadline] \Leftrightarrow 11 June 2010, without prejudice to the obligations on \boxtimes of \bigotimes Member States relating to \boxtimes the \bigotimes time-limits for \boxtimes the \bigotimes transposition \boxtimes into national law \bigotimes of application of those \boxtimes the \bigotimes Directives \boxtimes set out in Part B of Annex X \bigotimes .

However, from 11 June 2008, the following shall apply:

(a) in Directive 96/62/EC, paragraph 1 of Article 12 shall be replaced by the following:

<u>'1. The detailed arrangements for forwarding the information to be provided under Article 11 shall be adopted in accordance with the procedure referred to in paragraph 3.';</u>

(b) in Directive 1999/30/EC, Article 7(7), footnote 1 in point I of Annex VIII and point VI of Annex IX shall be deleted;

(c) in Directive 2000/69/EC, Article 5(7) and point III in Annex VII shall be deleted;

(d) in Directive 2002/3/EC, Article 9(5) and point II of Annex VIII shall be deleted.

2. Notwithstanding the first subparagraph of paragraph 1, the following Articles shall remain in force:

(a) Article 5 of Directive 96/62/EC until 31 December 2010;

(b) Article 11(1) of Directive 96/62/EC and Article 10(1), (2) and (3) of Directive 2002/3/EC until the end of the second calendar year following the entry into force of the implementing measures referred to in Article 28(2) of this Directive;

(c) Article 9(3) and (4) of Directive 1999/30/EC until 31 December 2009.

<u>2</u>3. References <u>made</u> to the repealed Directives shall be construed as <u>being made</u> references \bigotimes to this Directive and should \boxtimes shall \bigotimes be read in accordance with the correlation table in Annex <u>XIXVII</u>.

4. Decision 97/101/EC shall be repealed with effect from the end of the second calendar year following the entry into force of the implementing measures referred to in Article 28(2) of this Directive.

However, the third, fourth and fifth indents of Article 7 of Decision 97/101/EC shall be deleted with effect from 11 June 2008.

▶ 2004/107 (adapted)

Article 8

Report and review

1. The Commission shall, by 31 December 2010 at the latest, submit to the European Parliament and the Council a report based on:

(a) the experience acquired in the application of this Directive,

(b) in particular, the results of the most recent scientific research concerning the effects on human health, paying particular attention to sensitive populations, and on the

environment as a whole, of exposure to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons, and

(c) technological developments including the progress achieved in methods of measuring and otherwise assessing concentrations of these pollutants in ambient air as well as their deposition.

2. The report referred to in paragraph 1 shall take into account:

(a) current air quality, trends and projections up to and beyond 2015;

(b) the scope for making further reductions in polluting emissions from all relevant sources, and the possible merit in introducing limit values aimed at reducing the risk to human health, for the pollutants listed in Annex I, taking account of technical feasibility and cost-effectiveness and any significant additional health and environmental protection that this would provide;

(c) the relationships between pollutants and opportunities for combined strategies for improving Community air quality and related objectives;

(d) current and future requirements for informing the public and for the exchange of information between Member States and Commission;

(e) the experience acquired in the application of this Directive in Member States, and in particular the conditions under which measurement has been carried out as laid down in Annex III;

(f) secondary economic benefits for the environment and health in reducing the emissions of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons to the extent that these can be assessed;

(g) the adequacy of the particle size fraction used for sampling in view of general particulate matter measurement requirements;

(h) the suitability of benzo(a)pyrene as a marker for the total carcinogenic activity of polycyclic aromatic hydrocarbons, having regard to predominantly gaseous forms of polycyclic aromatic hydrocarbons such as fluoranthene.

In the light of the latest scientific and technological developments the Commission shall also examine the effect of arsenic, cadmium and nickel on human health with a view to quantifying their genotoxic carcinogenicity. Taking account of measures adopted pursuant to the mercury strategy the Commission shall also consider whether there would be merit in taking further action in relation to mercury, taking account of technical feasibility and costeffectiveness and any significant additional health and environmental protection that this would provide.

3. With a view to achieving levels of ambient air concentrations that would further reduce harmful effects on human health and would lead to a high level of protection of the environment as a whole, taking into account the technical feasibility and cost-effectiveness of further action, the report referred to in paragraph 1 may be accompanied, if appropriate, by proposals for amendments to this Directive, particularly taking into account the results obtained in accordance with paragraph 2. In addition the Commission shall consider regulating the deposition of arsenic, cadmium, mercury, nickel and specific polycyclic aromatic hydrocarbons.

Article 32

Review

1. In 2013 the Commission shall review the provisions related to $PM_{2,5}$ and, as appropriate, other pollutants, and shall present a proposal to the European Parliament and the Council.

As regards $PM_{2,5}$, the review shall be undertaken with a view to establishing a legally binding national exposure reduction obligation in order to replace the national exposure reduction target and to review the exposure concentration obligation laid down in Article 15, taking into account, *inter alia*, the following elements:

- latest scientific information from WHO and other relevant organisations,
- air quality situations and reduction potentials in the Member States,
- the revision of Directive 2001/81/EC,
- progress made in implementing Community reduction measures for air pollutants,

2. The Commission shall take into account the feasibility of adopting a more ambitious limit value for $PM_{2,5}$, shall review the indicative limit value of the second stage for $PM_{2,5}$ and consider confirming or altering that value.

3. As part of the review, the Commission shall also prepare a report on the experience and on the necessity of monitoring of PM_{10} and $PM_{2,5}$, taking into account technical progress in automatic measuring techniques. If appropriate, new reference methods for the measurement of PM_{10} and $PM_{2,5}$ -shall be proposed.

▶ 2004/107

Article 10

Implementation

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 15 February 2007 at the latest. They shall forthwith inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2. Member States shall communicate to the Commission the texts of the main provisions of national law, which they adopt in the field covered by this Directive.

✓ 2008/50 (adapted)
⇒ new

Transposition

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive \boxtimes Articles 1, 2 and 3, Article 4, points (2), (13), (14), (16), (18), (19), (21), (22), points (24) to (30), points (36), (37), (38) and (39), Articles 5 to 12, Article 13(1), (2), (3), (6) and (7), Article 15, Article 16(1) and (2), Articles 17 to 21, Article 22(1), (2) and (4), Articles 23 to 29 and Annexes I to IX \boxtimes \Rightarrow by [insert date : two years after entry into force] at the latest \Leftrightarrow before 11 June 2010.

When Member States adopt these \boxtimes the \bigotimes measures \boxtimes referred to in this paragraph \bigotimes , they shall contain a reference to this Directive or shall be accompanied by such reference on the occasion of their official publication. \boxtimes They shall also include a statement that references in existing laws, regulations and administrative provisions to the Directives repealed by this Directive shall be construed as references to this Directive. Member States shall determine how such reference is to be made and how that statement is to be formulated. \bigotimes The methods of making such reference shall be laid down by Member States.

2. Member States shall communicate to the Commission the text of the main \boxtimes measures \boxtimes provisions of national law which they adopt in the field covered by this Directive.

Article 3<u>234</u>

Entry into force

This Directive shall enter into force on the \boxtimes twentieth \bigotimes day \boxtimes following that \bigotimes of its publication in the *Official Journal of the European Union*.

[↓] new

Article 4(1), (3) to (12), Article 4(15), (17), (20), (23) and (31) to (35), Article 13(4) and (5), Article 14, Article 16(3) and Article 22(3) shall apply from [the day after the date in the first subparagraph of Article 31(1)].

↓ 2008/50

Article 3<u>335</u>

Addressees

This Directive is addressed to the Member States.

Done at Brussels,

For the European Parliament The President For the Council The President