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# REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT AND THE COUNCIL

Report from the Commission on the reviews undertaken under Article 30(9) and Article 73 of Directive 2010/75/EU on industrial emissions addressing emissions from intensive livestock rearing and combustion plants

(Text with EEA relevance)

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# REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT AND THE COUNCIL

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### 1. Introduction

Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions<sup>1</sup> (commonly referred to as the 'IED') was adopted on 24 November 2010 following three years of inter-institutional negotiations on the Commission's original proposal<sup>2</sup>. The IED recasts seven Directives related to industrial emissions into a single comprehensive Directive<sup>3</sup>. The IED entered into force on 6 January 2011, requiring Member States to transpose it within two years. It will come fully into effect in the coming years as the existing legislation is phased out and replaced by the new provisions.

The IED covers approximately 50 000 industrial installations across the EU including energy industries, the production and processing of metals, the mineral industry, the chemical industry, waste management and certain other activities such as the intensive rearing of pigs and poultry. Installations covered by the IED must be operated in accordance with permits which include conditions based on the best available techniques (BAT) designed to prevent and, where that is not practicable, generally to reduce emissions to air, water and soil and the impact to the environment as a whole. In addition, it incorporates strengthened sectoral EU-wide minimum requirements for a number of key polluting activities.

During the legislative process a significant amount of time was dedicated to consideration of the scope of the Directive, but in comparison to the Directive concerning integrated pollution prevention and control (IPPC) the scope of the IED finally remained relatively unchanged. However, it was concluded that a number of activities warranted further scrutiny with regard to their potential to cause pollution and the possible courses of action to address such pollution. This resulted in review clauses being included, in particular in Article 30(9) and Article 73. This Report addresses those reviews:

(i) Intensive livestock rearing – Agricultural activity in the EU impacts on the environment with regard to emissions to land, water and air. In particular, agriculture accounts for over 90% of total EU ammonia emissions, with a large proportion of such emissions arising as a result of the breeding and rearing of livestock. Ammonia contributes to:

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OJ L 334, 17.12.2010, p.17

<sup>&</sup>lt;sup>2</sup> COM(2007) 844 final

Directive 2008/1/EC concerning integrated pollution prevention and control (IPPC), Directive 1999/13/EC on solvents emissions, Directive 2000/76/EC on waste incineration, Directive 2001/80/EC on large combustion plants (LCP) and Directives 78/176/EEC, 82/883/EEC and 92/112/EEC related to the titanium dioxide industry

- The formation of "secondary" particulate matter and, consequently, health impacts ranging from minor effects on the respiratory system to premature mortality;
- Damaging ecosystems through acidification as well as eutrophication, caused by excess nutrient nitrogen leaching into freshwaters and disrupting plant communities, leading to a loss of biodiversity.

The existing thresholds under the IED capture approximately 20 per cent of the total number of pigs and 60 per cent of the total numbers of poultry in the EU. Cattle farms are not subject to the Directive.

(ii) Combustion activities – Combustion of fuels in stationary installations contributes significantly to emissions of a range of pollutants including sulphur dioxide, oxides of nitrogen and particulate matter. Whilst IED covers a number of larger combustion plants, gaps remain in the coverage and, furthermore, combustion of fuel in installations with a rated thermal input less than 50MW is not covered by existing EU legislation.

#### 2. BACKGROUND TO THE REVIEWS - THE IPPC REVIEW 2005-2007

As part of the review of the legislation on industrial emissions that took place during 2005-2007 and led to the IED proposal, the Commission identified that emissions from certain activities were contributing significantly to environmental pollution whilst not adequately controlled under EU law. In particular, certain types of intensive livestock farming and the combustion of fuels in installations below 50 MW were examined in detail in order to consider whether such activities should be included within the scope of the IED.

Furthermore, the Commission re-evaluated the EU-wide emission limit values established in the Large Combustion Plants (LCP) Directive and found that many of these limit values were insufficient to ensure the uptake of BAT. Therefore, the Commission included in its IED proposal revised limit values in order to align them with the emission levels associated with BAT as defined in the BAT Reference Document (BREF) on Large Combustion Plants, as adopted in 2006<sup>4</sup>. However, such alignment was not possible for some specific types of combustion plants which were not, or insufficiently, covered by that or other BREFs. Sections 2.1 to 2.3 provide more details on these specific reviews in the context of the Commission's original IED proposal.

### 2.1. Intensive livestock rearing

The IPPC Directive covers the following types of livestock rearing:

- Intensive rearing of poultry with more than 40 000 places for poultry;
- Intensive rearing of pigs with more than 2 000 places for production pigs (over 30 kg);
- Intensive rearing of pigs with more than 750 places for sows.

The Commission undertook two specific studies<sup>5,6</sup> to determine the most cost-effective measures to reduce ammonia emissions in the agricultural sector. These

OJ C 253, 19.10.2006, p. 5

Measures in agriculture to reduce ammonia emission, Final report to the Commission, IIASA, June 2007

studies identified options to clarify and extend the scope of the IPPC Directive resulting in the Commission proposing the following in its 2007 IPPC Recast proposal:

- i) Changes to the thresholds for poultry farms to take account of the different types of birds and the differences in environmental impacts thereof; and
- ii) The inclusion of a rule based on equivalent nitrogen excretion factors for determining whether farms with different poultry species or mixed pig and poultry farms, are subject to the IPPC Directive.

The co-legislators considered that the revisions proposed by the Commission should not be incorporated within the final legislative text at that time but that further reviews should be undertaken to determine what, if any, action should be taken. Such reviews were to be all-encompassing i.e. considering all of the environmental impacts of such agricultural activities.

#### 2.2. Combustion installations below 50 MW

Annex I of the IPPC Directive covers combustion installations with a rated thermal input exceeding 50 MW. However, the contribution of smaller combustion installations to the overall EU emissions of the key air pollutants (SO<sub>2</sub>, NO<sub>x</sub> and particulate matter) was assessed as part of the 2005 Thematic Strategy on Air Pollution<sup>7</sup> as being quite significant.

Therefore, the IPPC Directive review in 2005-2007 considered several options for reducing emissions from combustion installations between 20 and 50 MW. It was concluded that, for a range of scenarios, applying different EU-wide emission limitations, the estimated health benefits of regulating the emissions from this group of plants would outweigh the economic compliance costs<sup>8</sup>.

Accordingly, in its proposal for the IED, the Commission proposed to lower the capacity threshold within the IED in order to cover all combustion installations with a rated thermal input of 20 MW or more. However, the co-legislators did not agree with this and reverted back to the 50 MW threshold of the IPPC Directive.

Acknowledging the significance of emissions from these installations, a requirement for the Commission to review the need to establish the most suitable controls on emissions from combustion installations below 50 MW was included within Article 73(2)(a) of the IED. These reviews were to focus most effort on emissions to air given the identified impacts on air quality of such activities.

#### 2.3. Combustion plants of 50 MW and more

The emission limits for sulphur dioxide, nitrogen oxides and dust for combustion plants with a rated thermal input of 50 MW or more established under the LCP Directive are "minimum standards" and are without prejudice to the requirements of the IPPC Directive. In particular, the application of BAT may lead to stricter emission limit values being included in permits. However, it was found during the

Impact assessment of a possible modification of the IPPC Directive as regards intensive livestock rearing (part of a project on integrated measures in agriculture to reduce ammonia emissions carried out by the consortium Alterra, Wageningen UR, EuroCare, University of Bonn and A&F) June 2007

<sup>&</sup>lt;sup>7</sup> COM(2005) 446 final

Assessment of the benefits and costs of the potential application of the IPPC Directive (96/61/EC) to industrial combustion installations with 20-50 MW rated thermal input, report for the European Commission, AEA Technology, October 2007

review of the IPPC Directive in 2005-2007 that those limits were often applied as the "default" levels for determining the permit conditions, even though in many cases they were significantly higher than the emission levels associated with BAT. Therefore, relying on the LCP Directive limit values could not ensure that BAT is applied and this practice caused a deficit in the uptake of BAT within this sector. Given the significant amount of SO<sub>2</sub>, NO<sub>x</sub> and dust emitted by large combustion plants, this has had serious consequences in terms of environmental and health impacts, which could be strongly reduced if BAT would be implemented to the full extent.

In the IED the EU-wide emission limit values have been aligned with the BAT-levels from the LCP BREF while the role of these limit values as "minimum" requirements was clarified. However, for some types of large combustion plants no BAT associated emission levels had been defined in the BREFs. As a result, for the relevant categories (listed below and in Article 30(8) and (9) of the IED), either no EU-wide minimum emission limit values were defined in Annex V of the IED, or the limits set out in the LCP Directive were maintained:

- (a) diesel engines;
- (b) recovery boilers within installations for the production of pulp from timber or other fibrous materials;
- (c) combustion plants within refineries firing the distillation and conversion residues from the refining of crude-oil for own consumption, alone or with other fuels;
- (d) combustion plants firing gases other than natural gas;
- (e) combustion plants in chemical installations using liquid production residues as non-commercial fuel for own consumption.
- (f) For these types of plants, Article 30(9) of the IED requires the Commission to review, on the basis of BAT, the need to establish EU-wide emission limit values or to amend the emission limit values set out in Annex V.

# 3. OPTIONS CONSIDERED AS PART OF THE REVIEWS UNDERTAKEN BY THE COMMISSION.

Since the adoption of the IED, the Commission has completed the reviews required building on newly collected information as well as data collected as part of the original IPPC Directive review. In addition, the Commission has reviewed the situation concerning the large combustion plants referred to in Article 30(9). The results of this work are summarised below.

### 3.1. Emissions to the environment resulting from intensive livestock rearing

### 3.1.1. Intensive rearing of cattle (Article 73(2)(b))

The Commission has identified that approximately 90 million cattle are presently reared in the EU. This covers dairy cattle (27%), heifers (7%) and bovine / other cattle (66%). Cattle are spread amongst a very large number of businesses, approximately 3.5 million farms, ranging in size from large centralised farms to smallholdings of only one cow. Cattle rearing, covering all aspects of the raising of

Evaluation of the costs and benefits of the implementation of the IPPC Directive on Large Combustion Plant, AEA Technology, July 2007

cows including feeding and manure management, presently leads to air emissions of about 1 500 kt/year of ammonia (41% of total EU) and 7 000 kt/year methane (2% of total EU). Cattle rearing is also an important factor in the pollution of ground and surface waters by nitrates, with EU action to tackle such pollution taken through the Nitrates Directive<sup>10</sup>.

The Commission's review has considered both the control measures which can be applied to reduce emissions in the most cost-effective way, and the regulatory/legislative options for implementing those measures. For control measures, the Commission investigated the types of techniques that exist in the EU at present, drawing conclusions on the basis of existing Member State legislation that has defined BAT at a national level for reduction of ammonia emissions. This includes measures relating to ensuring use of good agricultural practice in overall farm management, the application of feeding strategies, design of cattle housing, storage and treatment of manure and slurry, and land spreading of manure and slurry.

For the policy implementation, the Commission assessed a number of options that might be applied to reduce air emissions from cattle across the EU including:

- Working with Member States and with the farming industry to develop or build on existing voluntary schemes encouraging the uptake of measures designed to limit emissions;
- Including cattle farms within the scope of the IED;
- Developing specific legislation specifically targeting emissions from the intensive rearing of cattle;
- Cross-compliance measures under the Common Agricultural Policy of the EU;
  and
- Amendments to other legislation such as Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural sources.

Note that BAT in the context of control measures does not relate to the IED implementation option only, but considers how BAT might be applied under all of the options examined.

Three different scenarios were developed based on the application of low, moderate and high levels of ambition for the application of BAT to reduce ammonia emissions. On this basis reductions of ammonia emissions of 109 to 188 kt/year could be achieved in comparison to the baseline scenario for dairy farms with greater than 50 cattle. For other cattle farm types with greater than 50 cattle, the emission reduction potential ranges from 59 to 108 kt/year. An examination of the administrative and compliance costs indicates that for all farm sizes the benefits of applying BAT outweigh the costs to farmers. However, it is noted that benefits increase at a greater rate than costs as farm size increases and the benefit/cost ratio is more pronounced in the dairy sector in comparison to other cattle farms. Furthermore, were a full IED permitting regime to be applied to all such farms then approximately 12% of all dairy cattle farms and 23% of other cattle farms would require a permit resulting in over 400 000 farms falling under IED for the first time. This would still leave a majority

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Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural sources.

of cattle installations outside of an IED permitting regime and consequently fail to address emissions from the majority of cattle across the EU.

3.1.2. Differentiated capacity thresholds for the rearing of different poultry species, including the specific case of quail (Article 73(3)(a))

The Commission has examined three possible approaches for differentiating capacity thresholds for the rearing of different poultry species:

- (1) Livestock Units (LU) a LU is used to compare or aggregate numbers of animals of different species or categories based on the food requirements of the animals, with 1 LU being equivalent to a cow weighing 600 kg and producing 3 000 litres of milk per year;
- (2) Equivalent Nitrogen Excretion Factors (ENEF) comparison on the basis of the mean annual nitrogen excretion per animal; and
- (3) Animal equivalence a weighted approach based on nitrogen and phosphorous excretion factors as well as other variables that is currently applied in one Member State.

These approaches have been considered for changing the thresholds for poultry farms subject to the IED. As there is a broad environmental equivalence between 2 000 place pig farms and 40 000 place broiler farms, the thresholds for other poultry types have been calculated based on a 40 000 place broiler farm threshold. The application of the three approaches shows considerable variations in the thresholds that may be set for different poultry species under IED. For birds that are typically smaller than broilers the thresholds could rise significantly, up to 85 000 – 320 000 places for quail. For birds that are typically larger than broilers thresholds would be lowered, for turkey farms for example, it would range from 9 200 to 21 000 places depending on the approach used.

Given the nature of different poultry farms across the EU, it is apparent using all three calculation methods that the modified thresholds would always lead to a net increase in the number of IED poultry farms. Calculations of the costs and benefits of making such changes indicate that between 900 and 3 200 installations would be included. Whilst in all cases the costs of compliance would be significantly outweighed by the environmental benefits of reduced ammonia, this would lead to limited ammonia emissions reductions of between 4 and 35 kt/yr. Net annual benefits are estimated as falling between €30 million to €1 billion per year. Furthermore, additional benefits due to reduced dust and odour emissions would result from the application of BAT.

3.1.3. Capacity thresholds for the simultaneous rearing of different types of animals within the same installation ('mixed farms') (Article 73(3)(b))

The review under Article 73(3)(b) of the IED concerning mixed farms has similarities to the review under Article 73(3)(a) concerning differentiated capacity thresholds for the rearing of different poultry species in that the three main approaches identified for weighting emissions for deriving thresholds are LU, ENEF and animal equivalence. The Commission's review has identified that a number of Member States already regulate mixed farms through the application of one of these three approaches. The Commission has derived indicative farm emission reductions from the application of BAT, an assessment of the costs and benefits of applying a rule for mixed farms under Annex I of the IED and an estimate of the total number of farms that might be affected across the EU. The results indicate that the inclusion of

mixed farms under the IED would result in ammonia emission reductions of around 1 - 20 kt/yr. Furthermore, the cost of compliance would be significantly outweighed by the benefits of ammonia reduction, as well as other environmental benefits that would be achieved including reduced methane emissions and releases of dust and odour. The net annual benefits are estimated as falling between €5 - 540 million per year. Approximately 600 to 1 800 farms would likely be affected by such changes.

The exact manner of calculating relevant thresholds for mixed farms has also been examined. It is clear that for such an approach to work, the exact manner of weighting environmental impacts from pigs and poultry would have to be explained or even included within the legislation itself to enable consistency in the calculations made at a Member State level.

#### 3.2. Emissions to air from the combustion of fuels

3.2.1. Combustion of fuels in installations with a total rated thermal input below 50 MW (Article 73(2)(a))

Extending on the work undertaken during the IPPC Review, the Commission compiled additional information on the numbers, capacity, fuel consumption and emissions of combustion plants between 1 and 50 MW. By filling the remaining data gaps through extrapolation, a sufficiently complete dataset could be compiled to assess possible control options, albeit that certain data limitations are acknowledged.

The data set shows that combustion installations between 1 and 50 MW are operated in a variety of sectors and are used i.a. for heating, for generating electricity, as well as for generating energy within a broad range of industrial activities.

It was confirmed that many Member States already regulate these plants to some extent, and a consideration of the applicable legislation in Member States has helped to identify where environmental benefits may be highest as a result of implementing EU wide minimum emission limits.

The following control options have been subject to a preliminary assessment for the 1 - 50 MW combustion installations:

- 1. regulating them as if this were a new activity in Annex I of the IED, subject to EU wide emission limits for air emissions (two different ambition levels were assessed);
- 2. regulating them without a full permitting regime but being subject to EU wide emission limits for air emissions.

A distinction was made between three categories, according to the rated thermal input of the plants: 1 - 5 MW, 5 - 20 MW and 20 - 50 MW.

In addition, an option was explored based on the use of product standards for new, 'off-the-shelf' plants within the smallest capacity group, but its impacts could not be fully assessed.

The preliminary assessment considered the monetised environmental and health benefits as well as the economic impacts in terms of compliance costs and administrative costs. This showed that in nearly all scenarios the benefits significantly exceed the costs, showing the potential gains of regulating these combustion plants at EU level. Administrative costs – although generally much lower than the actual compliance costs - may be restricted by opting for a regime without full permitting requirements, in particular for the smaller capacity classes, such as already exists for certain smaller installations under the IED.

## 3.2.2. Combustion plants of 50 MW and more (Article 30(9))

The revision of several BREFs through the information exchange under Article 13(3) of the IED is currently on-going. This process will result in BAT conclusions<sup>11</sup> defining BAT and the associated emission levels. The types of combustion plants listed in Article 30(9) will all be covered by one of the following BAT conclusions: Pulp and Paper, Mineral Oil and Gas Refineries, Manufacturing of Large Volume Organic Chemicals and Large Combustion Plants (LCP).

The IED has significantly strengthened the role of the BAT conclusions in the setting of permit conditions and, in particular, emission limit values. Article 15(3) requires that using the BAT-levels for setting limit values has to be the rule, while Article 15(4) provides for the possibility to derogate from this rule, albeit only for specific cases where justified on the basis of a cost-benefit assessment. For combustion plants being granted such derogations, the emission limit values in the permit shall, however, not exceed the limit values set out in Annex V to the IED.

The IED has also clarified the role of the EU-wide limit values as "minimum" requirements. As foreseen in Article 73, setting EU wide emission limit values for particular categories of installations provides a "safety net" to ensure that no excessive derogations from the BAT-levels are granted. However, the Commission considers it important to allow Member States the opportunity to fully implement the upcoming BAT conclusions via an update of the permits before concluding on the need for such a safety net for certain categories of installations. For the particular types of combustion plants mentioned in Article 30(9), in the absence of BAT conclusions, let alone information about their eventual implementation, it is not possible to assess at this stage the added benefits that new or amended EU wide emission limit values would bring.

Once the BAT conclusions for these plants have been adopted, the reporting on their implementation by Member States under Article 72 will allow the Commission to identify the need for additional minimum safety net provisions. This will be reported by the Commission to the European Parliament and to the Council under Article 73(1).

#### 4. NEXT STEPS

In considering the possible actions to be taken on the basis of the results of the reviews the Commission has given due consideration to the costs and benefits that would arise. The links with other initiatives must also be acknowledged and in particular:

- i) the Commission's proposal for the reform of the Common Agricultural Policy<sup>12</sup> allows for support to mitigation action to limiting emissions to air in agriculture and forestry from key activities such as livestock production and fertilizer use;
- ii) the recent revision of the Gothenburg Protocol under the UNECE Convention on long-range transboundary air pollution to abate acidification, eutrophication

COM(2011) 627 final/2

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<sup>&#</sup>x27;BAT conclusions' means a document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures

and ground-level ozone includes revised ceilings for annual emissions of ammonia for the year 2020, as well as a review clause for future action to curb ammonia emissions from the agricultural sector; and

iii) the Commission's review of the EU air quality policy, scheduled for 2013, will look at the cost-effectiveness of a range of further control options to reduce the health and environmental impacts of air pollution, including from agriculture and combustion.

Consequently, the Commission will take the following actions with regard to the results of the reviews covered by this Report.

# $\begin{tabular}{ll} Action 1-Emissions from cattle and capacity thresholds for intensive livestock \\ rearing under IED \end{tabular}$

The results gathered from the review on the control of emissions from the intensive rearing of cattle give a clear indication of the benefits of taking action to reduce emissions of ammonia from this sector. However, it is clear that emissions from the cattle sector should not be considered in isolation from other animal farm types. Consequently, recognising that the largest emission reductions relate to manure management the Commission considers that a further in-depth examination of the possibilities for reducing emissions from the spreading of manure for all farm types should identify those aspects that offer the highest benefit-to-cost ratio in tackling emissions, paying particular attention to potential compliance and administrative burden costs for the farming sector and the need for such costs to be proportionate to the potential benefits. Such a study will be undertaken in 2013 and, as well as considering actions at an EU level, will examine how individual Member States may look to tackle emissions at a national level in order to comply with other EU legislation such as the National Emission Ceilings Directive<sup>13</sup>. Information on techniques for the land spreading of manure and slurry from the BAT Reference document for the intensive rearing of poultry and pigs will be considered as part of this work and co-benefits in relation to reduction of emissions other than ammonia will also be included.

Furthermore, the results of the Commission's review identify that whilst varying the capacity thresholds between different poultry species and mixed species farms based on their environmental impact may be beneficial in terms of environmental outcome, the emission potential reduction is very limited. This conclusion supports the Commission's original review undertaken under the IPPC Directive. However, given the recent adoption of the IED, a further change to the relevant Annex I activity descriptions would lead to a period of uncertainty for farmers whilst the outcome of the ordinary legislative procedure was being negotiated. Therefore, the Commission considers that the existing thresholds for poultry farms subject to the IED should remain unchanged.

# Action 2 – Combustion of fuels in installations with a total rated thermal input below 50 MW

The Commission's review has confirmed that emissions of the key atmospheric pollutants from combustion installations below 50 MW can be controlled and substantially reduced at EU level in such a way that the environmental and health benefits outweigh the compliance costs for operators. Care needs to be taken in

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Directive 2001/81/EC of the European Parliament and of the Council of 23 October 2001 on national emission ceilings for certain atmospheric pollutants (OJ L 309, 27.11.2001, p. 22)

assessing potential options for a regulatory approach in order to avoid excessive administrative costs, which could be the result of an extensive permitting regime for the smaller installations, whilst ensuring that potential co-benefits are considered. Given the significant uncertainties identified, further elaboration and comparison of the impacts of a selection of options is needed before robust conclusions can be drawn on their merits.

Therefore, a further deepening of the assessment of the most promising options for controlling emissions from combustion installations between 1 and 50 MW will be undertaken in the context of the air pollution policy review.

### Action 3 – Combustion plants of 50 MW and more

The Commission considers that it would be premature to set or modify EU-wide emission limit values in the IED for the large combustion plants mentioned in Article 30(9). First of all, it is foreseen that by the end of 2014, the Commission has adopted the BAT conclusions covering these plants. After this, Member States will have four years to reconsider and where necessary update the permits to ensure that BAT is correctly implemented.

Where the reporting on the implementation of the IED by Member States would lead to the identification of a deficit in BAT uptake for the installations concerned, the Commission will report thereon as part of its tri-annual report to the EP and the Council foreseen under Article 73(1) and may initiate the establishment or updating of the EU-wide minimum requirements.

#### 5. CONCLUSION

The reviews undertaken by the Commission under Article 73(2)(a) and (b) and 73(3) have identified potential environmental benefits that could be achieved as a result of either amending existing EU law or the development of new instruments to tackle emissions from agricultural and combustion activities.

In the case of intensive livestock rearing, the Commission does not intend to propose changes to Annex I of the IED at this time for the activities listed in point 6.6 (intensive rearing of poultry and/or pigs) or to include cattle farms given that these changes would deliver somewhat limited environmental benefits while potentially imposing significant costs in respect of administration and compliance to a large number of farms. However, it is clear that emissions from spreading of manure are significant and further studies should be completed with a view to determining if and how ammonia emissions should be controlled at EU level, in particular through revisions to the National Emission Ceilings Directive, a review of which is expected to be completed in 2013 as part of the wider review of the Thematic Strategy on Air Pollution and associated legislation.

For the combustion of fuels in plants with a rated thermal input less than 50 MW, a clear potential for cost-effective abatement of air emissions was demonstrated and in a next step options for potential regulatory action will be further assessed in an impact assessment which will support the on-going review of the Thematic Strategy on Air Pollution.

For the large combustion plants listed in Article 30(9) of the IED, the Commission considers that there is no need to amend existing or establish new EU-wide emission limit values at this stage given that the relevant BAT conclusions will continue to be

published and incorporated into the operating permits of installations as these are progressively updated.