

The Sevilla Process

The process for the elaboration and review of the Best Available Techniques reference documents (BREFs)

European IPPC Bureau



The Sevilla Process

A complex consensus building exercise
with numerous stakeholders
and underpinned by
SOUND techno-economic **INFORMATION**



IEF members:

- Oversee the exchange of info
- Nominate experts of TWG

BREF authors:

- Secretary to the TWG
- Analyse info
- Propose drafts
- Presents BREF at IEF

Information Exchange Forum (IEF)

European IPPC Bureau (EIPPCB)

TWG members:

- collect and exchange info
- provide expert opinions
- contribute to discussions
- participate in TWG meetings
- comment on BREF drafts

TWG

- Industry
- Member States
- NGOs
- Commission

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32 Technical Working Groups (TWG)

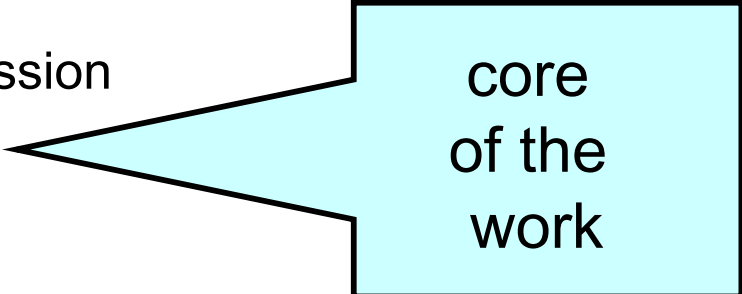
IRPP

Bref Revision - Typical workflow



IRPP Bref
to date
April 2009

- Commission's decision to review a Bref
- Nomination of TWG members
- Gathering of review wishes
- Kick-off meeting –plenary TWG session
- Exchange of information
- Preparation of Draft 1 of the BREF
- Draft 1 sent for comments
- Comments on Draft 1
- Preparation of Draft 2
- Draft 2 sent for comments
- Final plenary TWG meeting
- Final draft BREF presented at IEF
- Adoption of the BREF by the European Commission



core
of the
work

TFRN/IPPCB Overlapping interests

Agricultural Nitrogen is dealt in the IRPP Bref
Intensive Rearing of Poultry and Pigs

<i>Issue</i>	<i>Annex IX</i>	<i>IRPP Bref</i>
N Management through all cycle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Livestock feeding strategies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Low emission manure housing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
” storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
” spreading	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ammonia & carbonate in mineral fertilizers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thresholds for applying measures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
emission levels set by regulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other emissions: odour, P, water...	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Consumes, energy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cross-media perspective		<input checked="" type="checkbox"/>

IRPP Bref Revision

457 wishes of review received

Animal oriented	other categories of birds, nutrition, welfare...		<i>62</i>
BAT conclusions	review BAT decisions		<i>46</i>
General	economic data, energy, consumptions, efficiency, glossary, Good Agric. Practices, legislation, monitoring, General update...		<i>155</i>
Manures (manure / slurry)	Additives	5	<i>83</i>
	frequency of removal	9	
	Compost	9	
	Anaerobic treatment	7	
	Other manure processes	13	
	Storage of manures	7	
	manures cover	12	
	Spreading manures	20	
Housing	Floors	33	
	furnished cages	9	
	Litter	8	
	Ventilation	19	
			<i>69</i>
Non N emission			<i>9</i>
“Emerging” techniques			<i>33</i>

IRPP Bref Revision

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Summary Examples of Subjects of interest

Manures	Compost	Detailing manure composting techniques
	Frequency of removal	Reviewing the entire section; Reducing the frequency of collection; Balancing costs/emissions of odors/N emissions.
	Manures spread	Knowing more on emissions; Imposing or not incorporation, and at what delay; Condition of temporary on-field stacking; Considering poultry slurry.
	Manures cover	more information on effect of various types of cover to slurry storage (fixed, movable, natural crust...)
	Treatment & structures	more information on slurry storage structures (lagoons, bags...), effects of anaerobic treatment
	Update & new techniques	Knowing more on emissions at storage; Techniques for separation of fractions or chemicals.

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Summary Examples of Subjects of interest

Housing	Floors	Combinations of slats and full floor for type of animal, regarding emissions, and welfare; Combinations of type of floor and type/frequency of removal: Perforated floor, flushing system, material (plastic, concrete, iron, metal); Interaction of slats and ventilation on welfare and emissions of odours and ammonia.
	Ventilation	Reconsideration of mechanic vs. natural ventilation as BAT; Effect of ventilation on welfare and emissions of odours, ammonia.
Emissions	ammonia emission	more data (costs too) related to emissions; relation with different climates around Europe.
	non N	Considering not only N, but greenhouse gases and odors.
	other	Knowing more on biofilters and end-of-pipe treatments.
Not present in this Bref		heat recovery from litter, trace elements treatments, manures pH reduction, rainwater recycling, ionization...

IRPP Bref Revision

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Summary Examples of Subjects of interest
Techniques not considered in the previous Bref

General	Rainwater for cleaning, use of biological additives in buildings
Energy	Heat exchangers, recovery of energy from litter
Nutrition	More Knowledge on trace elements; Use of microorganisms to improve feed digestibility; NSP enzymes; Low protein diets.
Rearing	Controlling housing climate, ionization, fogging; Aeration of manure storages; Slurry flushing.

Data collection

- Essential to the information exchange process
- **IEF working group on improving data collection:**
 - Main gaps in the data provided in the past to the EIPPCB
 - Quantity and representativeness
 - Data at installation level (to assess real & top performances)
 - Data on particular topics (e.g. energy, residues/waste, fugitive emissions)
 - Comparability of data
 - General principles for the type, format and quality of data
 - Complete data sets at the level of single installations
 - Clear references to the applied techniques
 - Information from best performing plants
 - Specific issues under the remit of each TWG
 - Sector-specific template for collecting information
 - Time schedule for collecting and submitting data

EIPPCB web site
<http://eippcb.jrc.es/>

Thank you for your attention

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European Commission
Joint Research Centre
Institute for Prospective Technological Studies



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Welcome to the European IPPC Bureau (EIPPCB)

10 years in helping to protect the European environment

The European IPPC Bureau is an action of the Competitiveness and Sustainability Unit of the **Institute for Prospective Technological Studies (IPTS)**. The IPTS is one of the seven scientific institutes of the **European Commission's Joint Research Centre (JRC)**.

The European Integrated Pollution Prevention and Control (IPPC) Bureau was set up to organise an exchange of information between Member States and industry on Best Available Techniques (BAT), associated monitoring and developments in them.

The European IPPC Bureau is an output oriented team which produces reference documents on Best Available Techniques, called BREFs. BREFs are the main reference documents used by competent authorities in Member States when issuing operating permits for the installations that represent a significant pollution potential in Europe. There are about 50000 of these installations in Europe.

In the international context, the European information exchange on best available techniques is considered to be an EU contribution to the global process initiated in 2002 at the World Summit on Sustainable Development so that non-EU countries can also reap the benefits of this ambitious work.

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