



TFRN12

Meeting, June 29-30 2017, Aarhus, Denmark

Reports from the panels:

EPMAN (Expert Panel on Mitigating Agricultural Nitrogen)

Co-chairs

Barbara Amon, ATB, Germany and Shabtai Bittman, Agriculture and Agri-Food Canada

EPMAN- terms of reference

- To provide technical guidance (not rules) for abating ammonia taking the whole N cycle into account and avoiding pollution swapping to help parties meet obligations under ANNEX 9
- The Guidance Document is targeted to *policy makers* of the Convention Parties.
- The Framework Code for Good Agricultural Practices is intended to help *farmers* in countries that do not have their own national code; it is a required default document.

What is the Guidance Document?

Options for Ammonia Mitigation: Guidance from the UNECE Task Force on Reactive Nitrogen

- It is informational, to provide a range of options, including costs, at all farm production levels (and for all sectors) to help them meet emission abatement targets.
- It is not prescriptive (nor mandatory, or regulatory).

What is the Guidance document

There are 6 key chapters on emission reduction strategies

1. N management taking account of the whole N cycle
 2. Livestock feeding strategies
 3. Animal housing
 4. Manure storage
 5. Manure spreading
 6. Mineral fertilizer spreading
- All measures are associated with net costs: Euros per kg NH_3 abated
 - Book by Reis et al. on costs of abatement measures in press

What is the Guidance document:

About the Guidance Document:

The guidance document has been

- approved by the UNECE - WGSR and EB,
- endorsed by farmers and Coops of Europe (Copa Cogeca) and British farmers Union.
- translated into Russian and
- published as a book by Center Environment and Hydrology (Edinburgh)
- supported the NEC directive

What is the Framework Code

- The FC is intended to be a simpler version of the GD and targeted to the industry
- Revision was completed in Nov 2014) after comments form many parties and organizations
- It is now approved by the UNECE-WGSR and EB
- It is a mandatory default document of the UNECE; all Parties are required to have a Framework Code or adopt the official default code

Other related achievements

- New version of the EEA/EMEP emission inventory guidebook was endorsed in Dec 2016
- Currently a refinement process to the IPCC 2006 guidelines is under way (Barbara Amon Lead Author for chapter Agriculture); open expert review of the first order draft of this refinement will start next year

So what is left to do?

1. Encourage and assist the majority of parties that do not yet have a Framework Code.
2. Visual versions of the GD/ FC chapters (one exemplary chapter has been nearly completed)
3. Develop a web tool to post possible new measures, critiques and ideas that for consideration and for possible adoption in the upcoming revision. The idea is to keep the GD relevant.
4. Collaborate with TFEIP on standardizing emission factors for inventories
5. Collaborate with EPNB to develop farm N budgets as per CH.1 of GD

10th EPMAN Meeting, 30th June 2017, Aarhus agenda

08:30 – 08:45 Welcome and introduction (Shabtai and Barbara)

New technologies related ammonia reduction

08:45 – 09:30 NH₃ emissions from slurry stores and Swiss inventory (Thomas Kupper)

09:30 – 10:00 Manure treatment and application

1. NIFLUM – UBA project for evaluating flux determination methodologies (Helmut and Gabriele)
2. Manure processing plant in South Tirol Italy (Helmut Döhler)
3. **Contributions from the EPMAN panel on new technologies**

10:00 – 10:30 *Coffee*

10:30 – 11:30 *Living guidance document and website* (Shabtai, Barbara, Nick, Gabriele, Markus, Tommy)

11:30 – 12:00 Promoting Framework code to other countries:

1. Results from survey of Framework codes across the UNECE (Shabtai and Mark)
2. Information about cooperation with Switzerland and Austria for the German translation of the Framework code on good agricultural practice (Markus and Gabriele)

12:00 – 13:00 *Lunch*

13:00 – 13:30 *Links with other activities and future work of EPMAN* (Shabtai, Barbara)

TFEIP, new CLRTAP guidelines, activity data

Refinement of the 2006 IPCC guidelines

Wrap up and future work

13:30 – 14:30 Session together with EPNB on “Towards INMS Task 1.2, Farm N budgets, and EPNB”

14:35 – 15:35 *Session 7: TFRN Closing Plenary*