

Expert panel on Nitrogen in EECCA countries

Activity report 2014/15

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TFRN-10 Lisbon April 2015

“The purpose of the Panel on Nitrogen in countries of Eastern Europe, the Caucasus and Central Asia:

a) recognize the unique systems of nitrogen management in these countries,

b) to promote cooperation among countries of Eastern Europe, the Caucasus and Central Asia and across the UNECE region, including cooperation with the other expert panels of the Task Force.”

Expert Panel on Nitrogen in EECCA countries in 2014

1. To increase awareness and knowledge on reactive nitrogen emissions and options for integrated nitrogen management

- participation of EECCA countries experts in TFRN activity,
Expert Panel - EPMAN, EPNB
TFRN Special Workshop: 12th-13th November, Edinburgh, “Framework Code for Good Agricultural Practice for Reducing Ammonia” (4 EECCA countries participants)
- **Joint project:**

INMS , 8 institutes (4 countries) expressed the interest in INMS Project,

Joint project with the German Federal Environmental Agency

Title of the project “Best available techniques (BAT) for intensive rearing of pig, poultry and cattle in EECCA countries – support of the implementation of the Gothenburg Protocol of the UNECE-CLRTAP and the environmentally sound techniques according to the EU Industrial Emission Directive (IED)” - EECCA BAT IRPP

**Participants: German Federal Environmental Agency,
Institute for Engineering and Environmental Problems in Agricultural Production IEEP, Russia**

- The overall objective of this project is to develop an information exchange on the integrated and specific methodology for the classification of livestock housing systems and of manure storage, treatment and spreading in terms of “Best Available Techniques”**
- The specific objective of the project is to draft proposals on introduction of BATs for intensive livestock farming in the Russian Federation based on the relevant European experience.**

- **Identification of BAT for some animal categories should be done on the basis of pilot studies in Leningrad and Kaliningrad Regions**
- **Description of recommended BAT will be presented on the website of the Russian institute**
- **The results of the project should be presented at the workshop with the participation of EECCA experts**

2. Dissemination of information on TFRN activity in the Russian language :

- **Continuation of the Web-site of reactive nitrogen experts in EECCA countries <http://www.spb.sznii.ru>**
- **Options for Ammonia Mitigation Guidance from the UNECE Task Force on Reactive Nitrogen (hard copy of Guidance document)**
- **English-Russian version of the Glossary of terms on livestock and manure management, 2011**
- **Proceedings of the workshop“Abating Ammonia Emissions in the UNECE and EECCA Region in the Context of the Nitrogen Cycle”**

Options for Ammonia Mitigation Guidance from the UNECE Task Force on Reactive Nitrogen (hard copy of Guidance document)

The Task Force (in collaboration with the Centre for Ecology and Hydrology) has printed a Russian language version of the updated Guidance Document on Control Techniques for Preventing and Abating Emissions of Ammonia

350 hard copies for further regional distribution

Сокращение выбросов аммиака: меры и действия

Рекомендации Целевой группы по химически активному азоту ЕЭК ООН

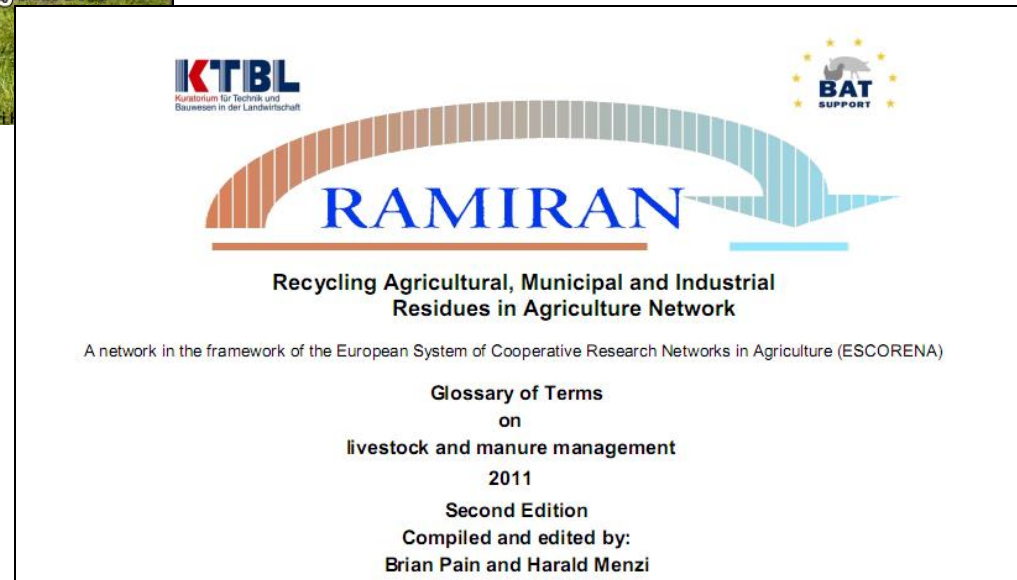
The diagram illustrates the nitrogen cycle in a field, showing the flow of nitrogen through various stages and processes. Key components include:

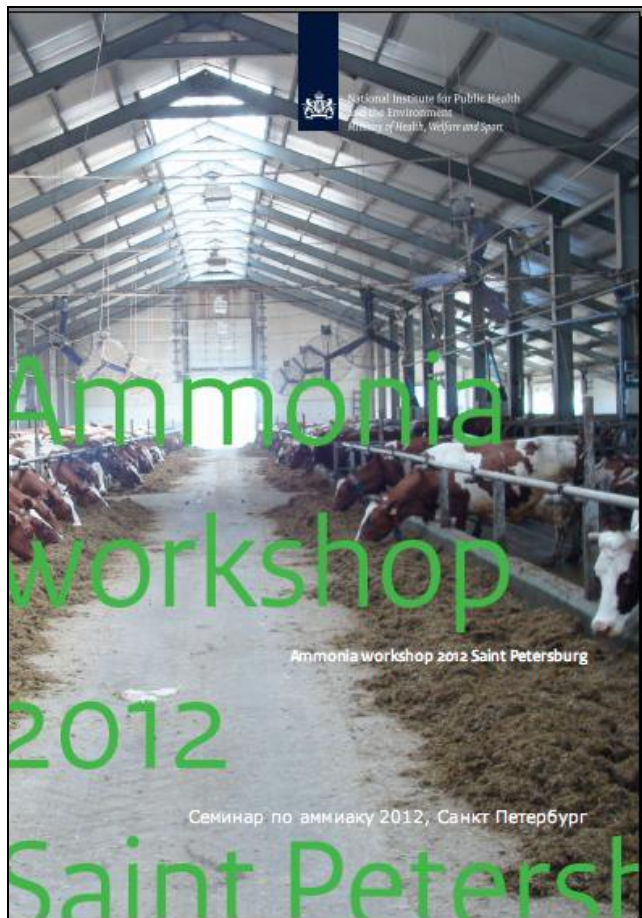
- Inputs:** Животноводство (Livestock farming), Дубильные (Tannins), NH_3, N_2, N_2O, NO (Ammonia, Nitrogen, Nitrous oxide, Nitric oxide).
- Processes:** Удобрения (Fertilizers), Почва (Soil), Урожай (Harvest), Потери (Losses), Трансформация N в поле (Nitrogen transformation in the field), Потери при сжигании (Losses during combustion).
- Outputs:** NH_3, N_2, N_2O, NO (Ammonia, Nitrogen, Nitrous oxide, Nitric oxide), NO, NH_4OH (Nitric oxide, Ammonium hydroxide).

English-Russian version of the Glossary of terms on livestock and manure management, 2011



http://helcom.fi/Documents/HELCOM%20at%20work/Projects/BASE/AGRI_Eng-Rus%20RAMIRAN%20Glossary%20%28final%29.pdf





Proceedings of the workshop "Abating Ammonia Emissions in UNECE and EECCA Region"
Title of publication : Van der Hoek, K.W. and N.P. Kozlova, Editors (2013). Ammonia workshop 2012 Saint Petersburg. Abating ammonia emissions in UNECE and EECCA region. Семинар по аммиаку 2012, Санкт Петербург. Снижение выбросов аммиака в регионах ЕЭК ООН и ВЕКЦА. RIVM Report 680181001/SZNIIMESH Report. Bilthoven, The Netherlands

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[http://www.rivm.nl/Documenten_en_publicaties/Wetenschappelijk/Rapporten/2014/juni/Ammonia workshop 2012 Saint Petersburg Abating ammonia emission in UNECE and EECCA region](http://www.rivm.nl/Documenten_en_publicaties/Wetenschappelijk/Rapporten/2014/juni/Ammonia_workshop_2012_Saint_Petersburg_Abating_ammonia_emission_in_UNECE_and_EECCA_region)

PLAN OF EPN EECCA FOR 2015-2016

1.To establish information exchange with EECCA Coordinating Group.

- **Meeting of the Coordinating Group on the promotion of actions towards implementation of the Convention in Eastern Europe, the Caucasus and Central Asia (tentatively will be held in autumn)**

2. To search for financing and realization of joint projects

suggested topics:

- **Technical support of introduction of the nitrogen budget calculation system on the national and regional level in the Russian Federation and EECCA countries**
- **Translation into Russian of guiding / information documents on the subject of TFRN (BREF??)**

PLAN OF EPN EECCA FOR 2015-2016

**3.To have a special session on reactive nitrogen in the framework of a scientific conference "Environmental problems and application technologies of organic fertilizers based on intensive livestock farming waste" All-Russian Research Institute of Organic Fertilizers and Peat"
24-26 June, 2015, Vladimir**

4. Workshop "Identification of BAT in intensive livestock farming, outcomes of the joint project EECCA BAT IRPP " with the participation of EECCA experts

**5.Web-site of reactive nitrogen experts in EECCA countries.
<http://www.spb.sznii.ru>**

Thank you for your attention!