WG5: Measures to reduce nitrogen deposition from sources other than localised agriculture

Bo Van den Bril – Dominique Meremans
Content

• Introduction: emissions

• Measures

• Highway campaign ATMOSYS
Introduction: emissions
Introduction: emissions

Policy

- **CLRTAP** → revision winded up May 2012
  → severe emission ceilings for NO$_x$, NH$_3$ from 2020
- **2001/80/EG** → new emission norms from 2008 for NO$_x$ for combustion plants
- **NEC directive** → absolute emission ceilings for NO$_x$
Introduction: emissions

General local policy

- All **combustion plants**: new emission norms from 2008 (NO$_x$)
- **Refineries**: more stringent bubble emission norms from 2010 on (NO$_x$)
- **Electricity sector**: agreement to reduce emissions for 2010-2014 (NO$_x$)
- Financial support for **off-road mobile machinery** with low emission standards or driven by electricity
Measures

Flemish sanitation plan NO$_2$

• 2008/50/EC: postponement till 2015 for the NO$_2$ yearly limit value

→ Focus on transport!
Measures

Low Emission zone in Antwerp:

• from 2016: at least EURO 1 for gasoline + soot filter for diesel
• from 2020: at least EURO 2 for gasoline + EURO 5 for diesel

Future:

• EURO 6 → from September 1st 2015

practice vs theory
Measures

General local policy:

- Masterplan Antwerp
- Road charging for trucks from 2016 onwards
- Ecofriendly transport in port and city centre
- Green logistics
- Incentives for cars driven by electricity and natural gas
- Flemish subsidy for soot filters on cars and trucks
Highway campaign
ATMOSYS
Highway campaign ATMOSYS

- How do highway pollutant (NH$_3$, NO$_2$, PM) concentrations vary with distance?
  → measurements near E40 highway Affligem
- Campaign from April 2012 → February 2013
Highway campaign
ATMOSYS

6m

96m

15m

55m

SW

NE

GHENT

BRUSSELS
Highway campaign
ATMOSYS

• $NH_3$
Highway campaign
ATMOSYS

- NO$_2$
Thank you for your attention. Questions?

b.vandenbril@vmm.be