Air quality and agriculture in the EU

Green week, 5th June 2013
Eutrophication

2010: 62% (1,020,000 km²)

2030 Baseline: 54% (888,000 km²)

Source: IIASA (Nov 2012)

Acidification

2010: 7.5% (96,000 km²)

2030 Baseline: 3.7% (47,000 km²)
Acidifying pollutants

Primary and secondary PM$_{10}$

EEA-32 2007 (Total: 775kt)

Agriculture 26%

EEA-32 2007 (Total: 21,290kt)

Agriculture 12.7%
Emission trends

Baseline emissions EU-28

SO₂  NOₓ  PM₂.₅  VOC  NH₃

Source: IIASA (2013)
Ammonia emission 2025

Thousand tonnes

Data: TSAP Report #10, Version1.0 (March 2013) by IIASA

EU27 change compared to 2005
Current legislation: -5%
A5 (cost effective): -27%
MTFR: -34%
Emission reductions by sector

Key measures:
- Efficient (‘low emission’) application of urea fertilizer
- Low nitrogen feed (pigs, dairy cows, poultry)
- Low emission application of livestock manures; liquid and solid
- Closed storage of manures and new low emission housing (pigs, poultry)

Source: IIASA (2012)
Source: IIASA (2012)
Diets

Source: Meier, T., O. Christen (2013)
Conclusions

• All sectors must contribute
• Cost effective technical reductions of 27 per cent possible – NEC should follow
• Less food waste and healthy diets can reduce even more
More information?

www.airclim.org

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