

# Status of emission reporting Gridded Emissions and LPS



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# Content

- **Status of reporting**
  - TCCCA (transparency, consistency, comparability, completeness, accuracy)
  - Documentation / IIRs
  - Projections, Gridded data, LPS
  - Gothenburg Protocol

<http://www.ceip.at/overview-of-submissions-under-clrtap/2013-submissions/>

<http://www.ceip.at/review-results/review-results-2013/>

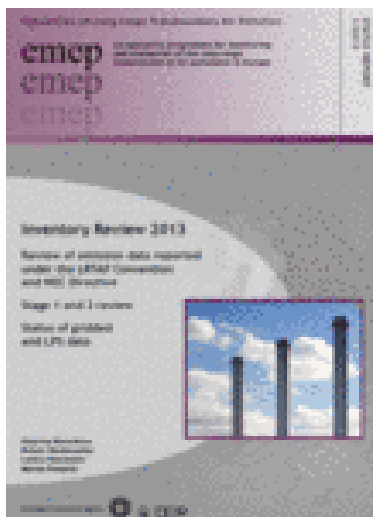
<http://www.ceip.at/review-of-inventories/review-2013/>

# Review results

Results are password protected

<http://www.ceip.at/review-results/review-results-2013/>

## EEA & CEIP report Inventory Review 2013



### Review results 2013

In this section you can display / download stage 1 and stage 2 review data for your country as soon as it is available. You can also deliver comments to the stage 2 review and answers to IEF test questions. The access is password protected. User names and passwords were already provided to CEIP contact points, but will be provided again in 2013.

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [K](#) | [L](#) | [M](#) | [N](#) | [P](#) | [R](#) | [S](#) | [T](#) | [U](#)

| Party      | Stage 1 Status reports | Stage 2 review data | Implied emission factor tests |
|------------|------------------------|---------------------|-------------------------------|
| ALBANIA    | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
| ARMENIA    | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
| AUSTRIA    | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
| AZERBAIJAN | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
| BELARUS    | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
| BELGIUM    | Stage 1 Report         | Stage 2 Analysis    | IEF Test                      |
|            |                        |                     |                               |

### More information

Download **Stage 3 review data** for the **2013 centralised review** (password protected - access only for ERT experts).

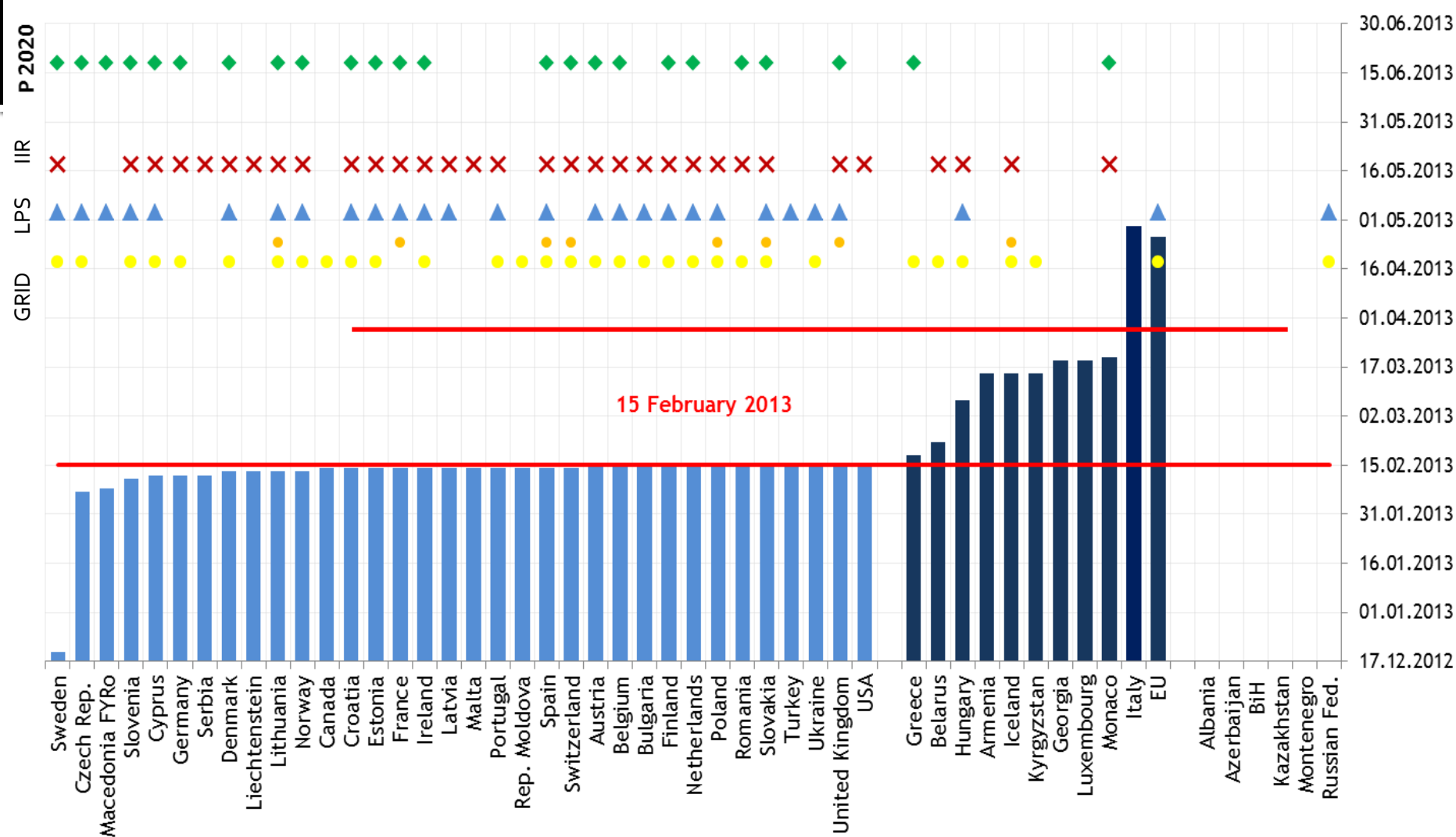
### Stage 3 - Country reports 2013

You can download the final review reports as PDF document via the following links:

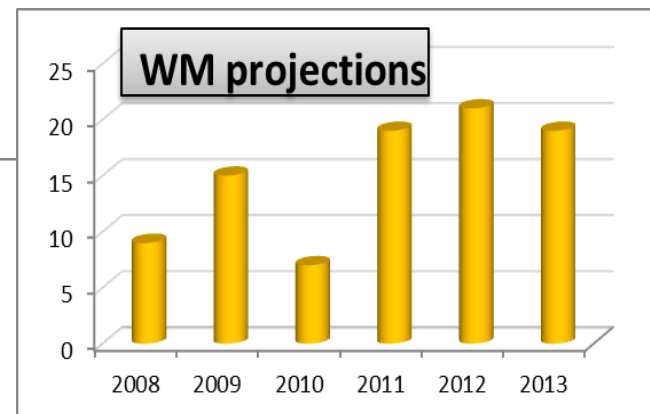
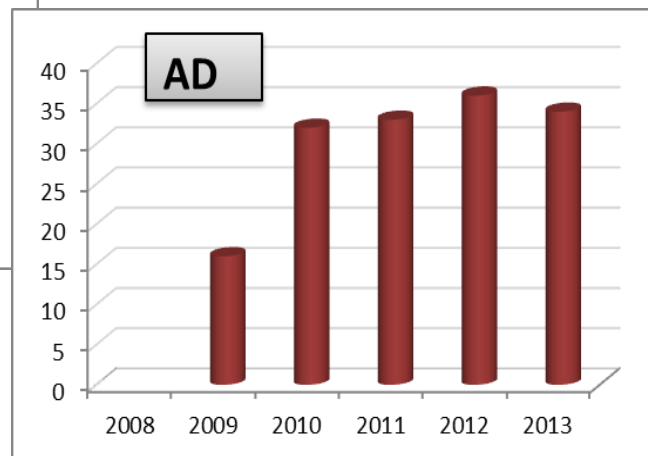
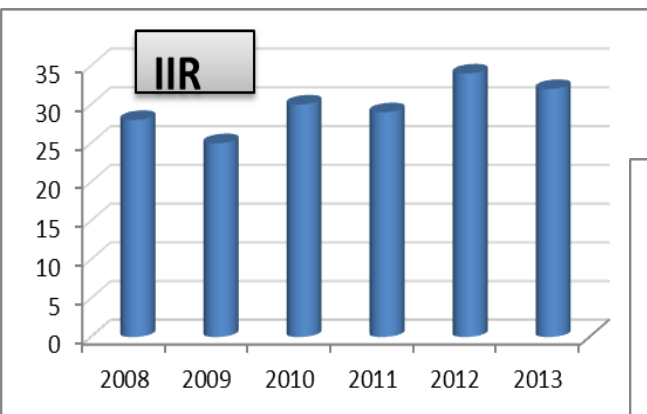
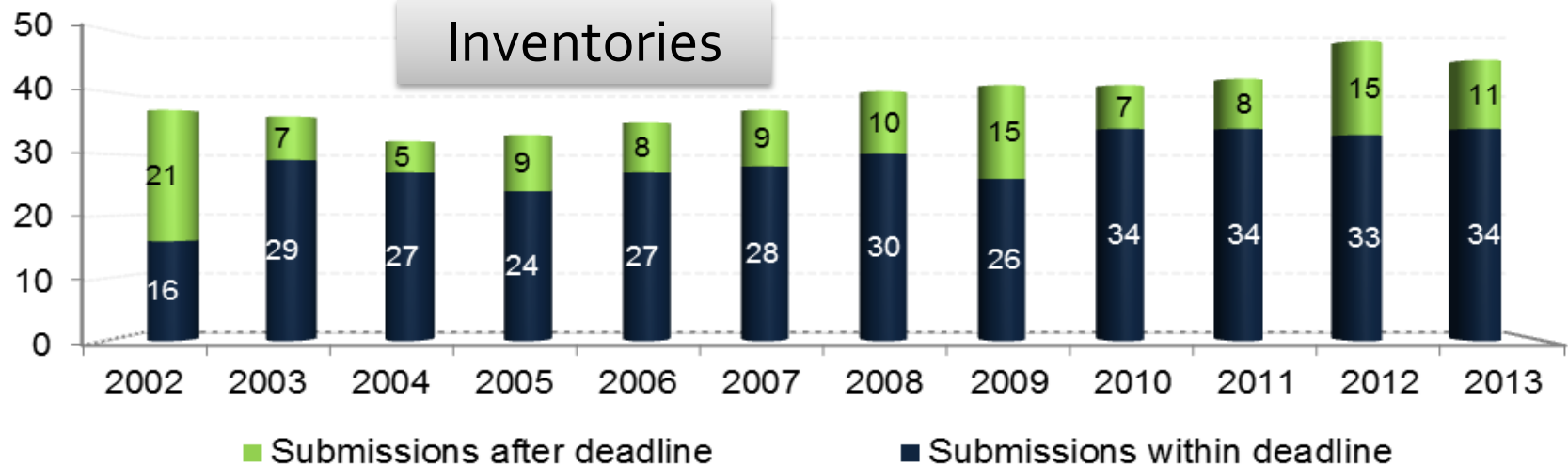
- Bulgaria
- France
- **Italy**
- **Latvia**
- Lithuania
- Norway
- **Poland**
- Portugal
- Romania
- **Sweden**

Please send your comments and questions to **CEIP**.

# Reporting under the CLRTAP in 2013



# History of emission reporting under CLRTAP



# Completeness / AWARDS 2013

**45** (88%) submissions from 51 Parties ( 37 in 2002)

**34** Parties within deadline - 12 resubmissions (before end of May)

**No data from 5 :**

Albania, Azerbaijan, BiH, Kazakhstan, Russian Federation

Most complete inventory reporting in 2013 : **Spain**

Most significant improvement of inventory reporting within last 3 years: **Turkey**

# Completeness 2013 - Reporting under CLRTAP

## ■ Pollutants

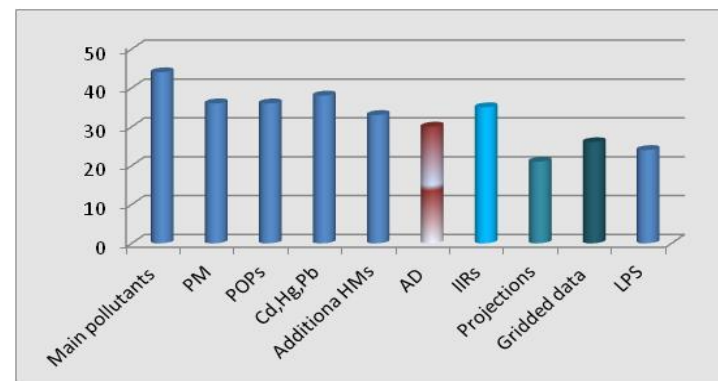
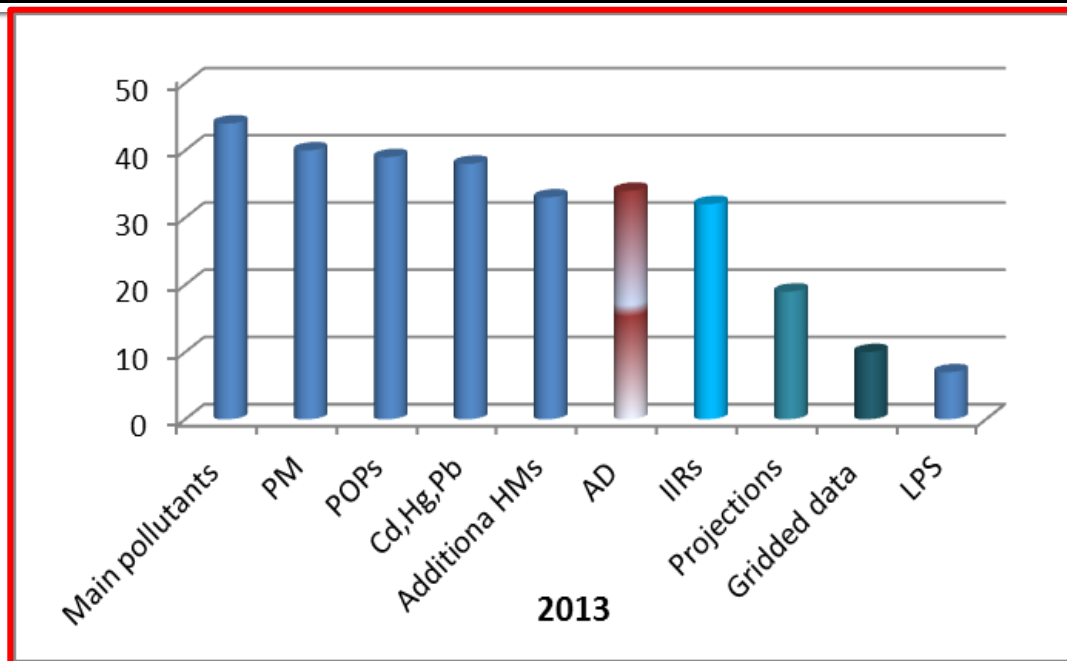
- Main pollutants: **45** (44)
- PM: **39** (36, 34)
- POPs (Diox, PAHs, HCB, PCBs): **39** (36)
- Cd, Hg, Pb: **38** (38, 39)
- Additional HMs: **33** (33, 33)
- AD: **34**

## ■ IIRs : **32**

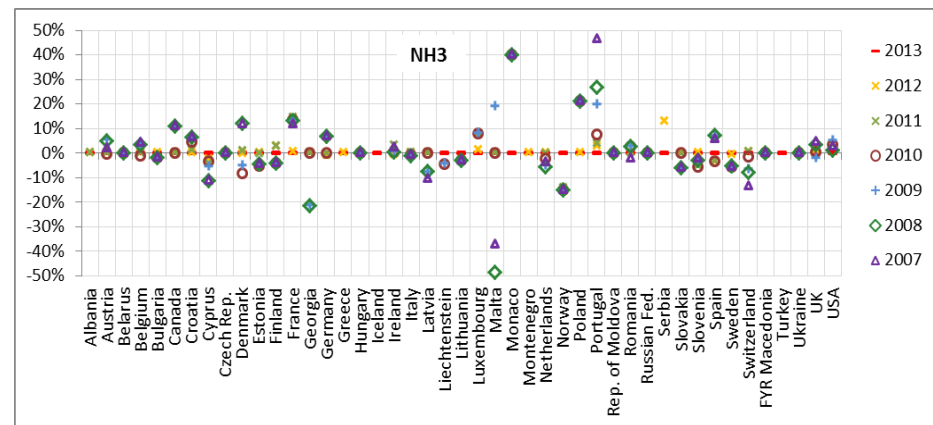
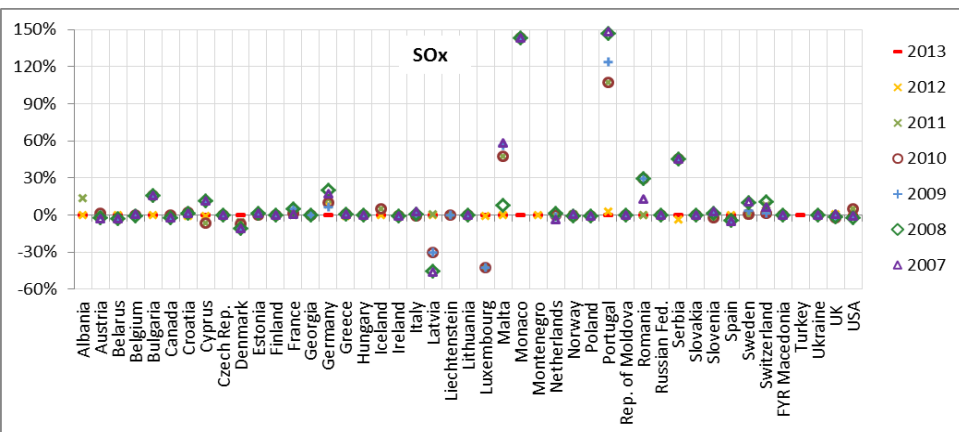
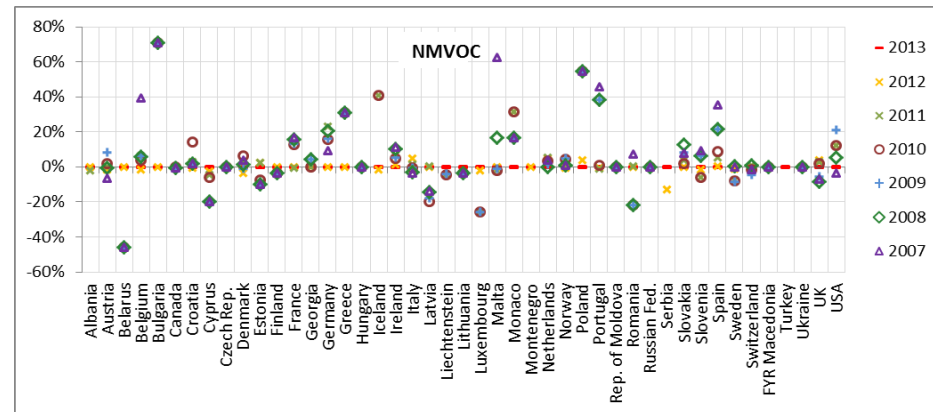
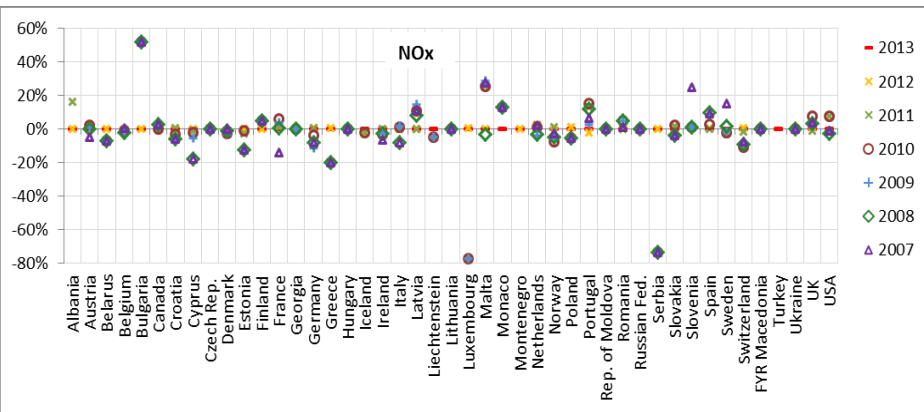
- **2020 Projections**: **20** (7 WaM) ,  
**12** also 2030P  
Activity **12** (6 WaM)

- **Gridded data**: 10  
(sectoral + national totals)

- **LPS**: **7**



# Variations in 2005 emissions as reported between 2007-2013

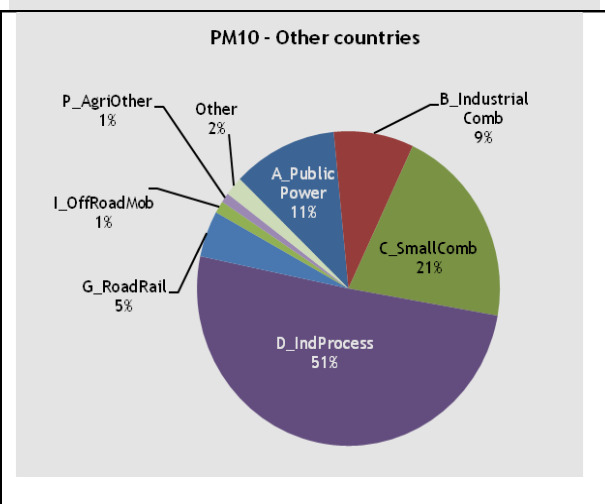
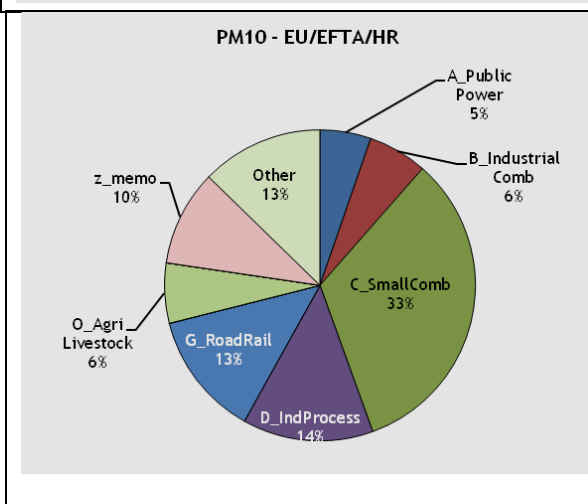
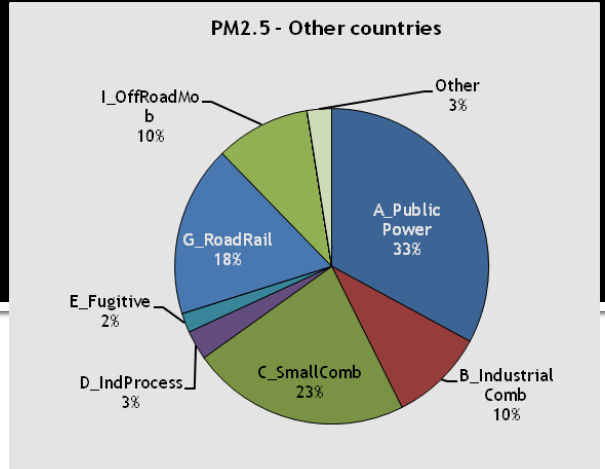
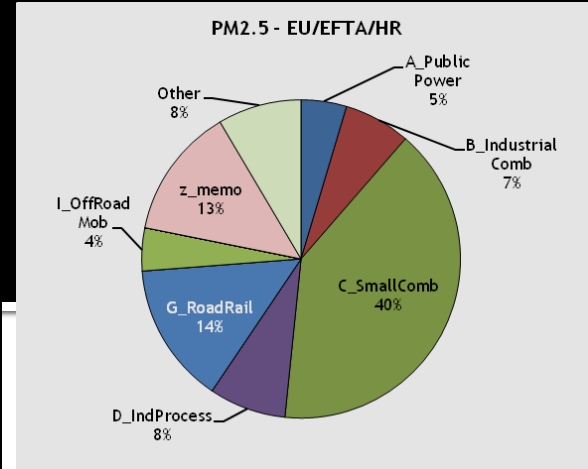




# PM / some findings

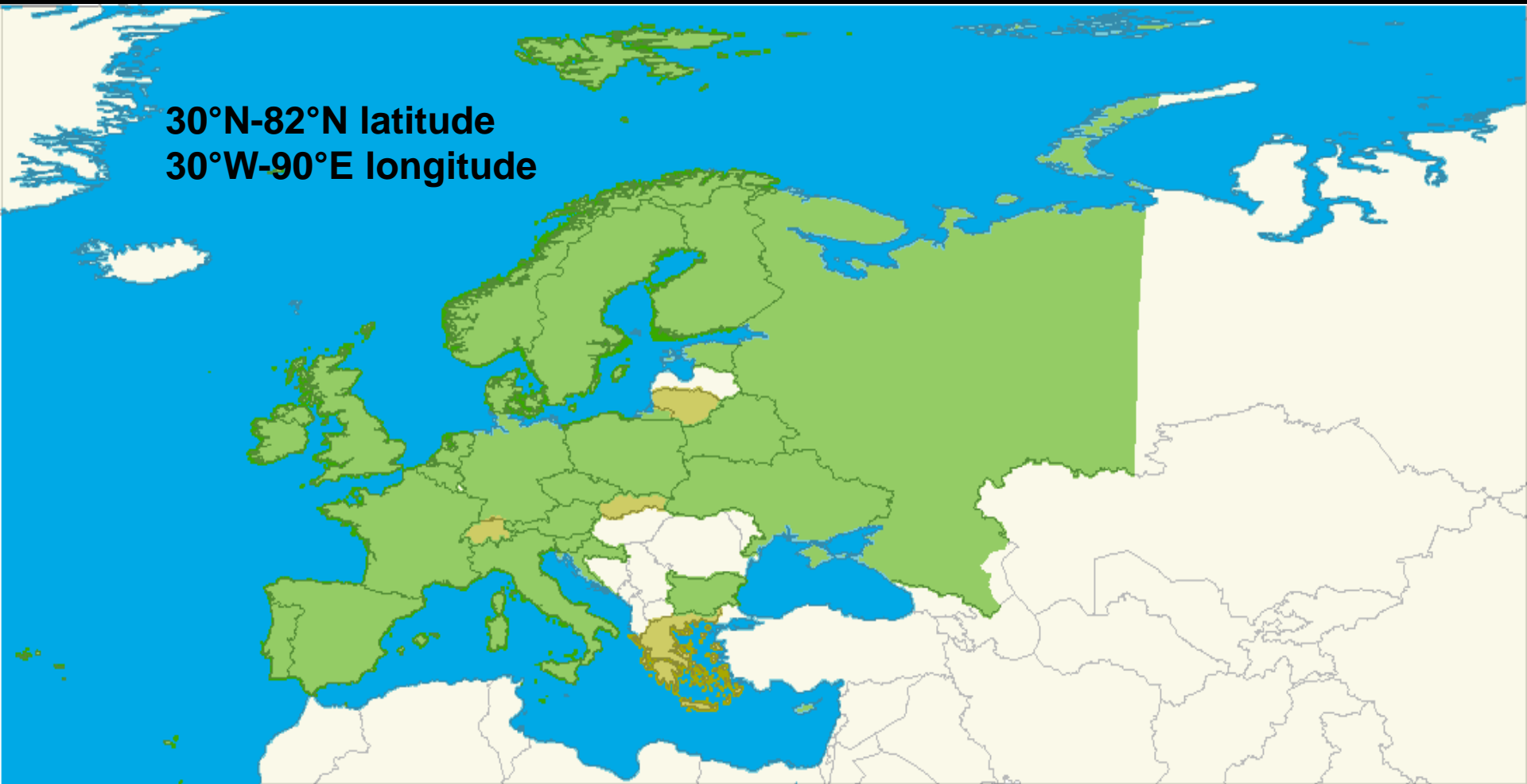
PM<sub>10</sub> and PM<sub>2.5</sub>

TOP 7  
key categories



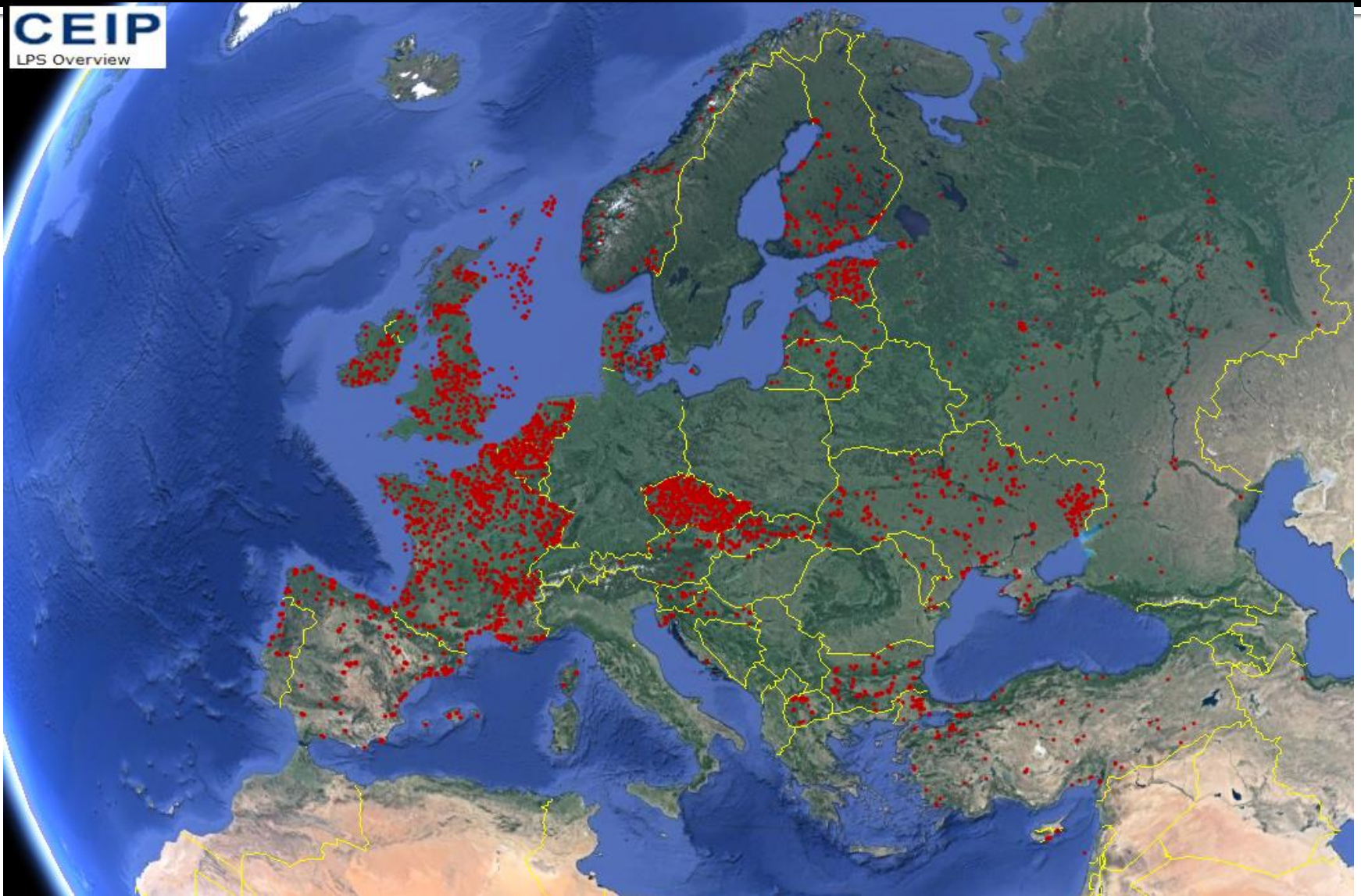
| Pollutant         | Emissions in kg per cap in 2011 |  |     | Pollutant         | Emissions in g per GDP in 2011 |  |     |
|-------------------|---------------------------------|--|-----|-------------------|--------------------------------|--|-----|
|                   | min                             | middle 50% of the countries<br>(25%-75% quartiles) | max |                   | min                            | middle 50% of the countries<br>(25%-75% quartiles) | max |
| PM <sub>2.5</sub> | 0.03                            | 1 - 4  | 32  | PM <sub>2.5</sub> | 0.02                           | 0.06 - 0.2   | 1   |
| PM <sub>10</sub>  | 0.3                             | 3 - 5  | 171 | PM <sub>10</sub>  | 0.05                           | 0.1 - 0.4  | 5   |

# Reporting of 2010 gridded data



**Green** = reported sectoral grids in 50x50 km<sup>2</sup> resolution  
**Orange** = reported national total grids in 50x50 km<sup>2</sup> resolution  
White = no grid emissions reporting

# Reporting of LPS



# Documentation / Transparency - IIR AWARDS 2013

- **31 inventory reports** submitted before end of April
- Approximately **7,821** pg in total
- **Quality** of reports significantly **improved**
- Categories: **Most comprehensive, best looking, best small country , improvement**

Denmark  
Sweden  
Norway  
Spain  
Austria  
**Finland**  
France  
Germany

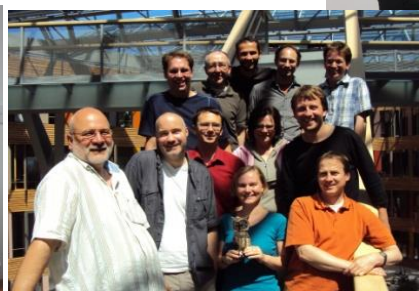
Estonia  
**Sweden**  
Ireland  
UK  
France

**Estonia**  
**Croatia**  
Iceland  
Lichtenstein  
Malta

Belgium  
Belarus  
**Poland**  
Slovenia  
Serbia



# Awards 2010- 2012



## 2012

United Kingdom  
Germany  
The Netherlands  
FYR Macedonia  
Ireland

Denmark

## 2011

Finland  
Estonia  
Austria  
Croatia  
Switzerland

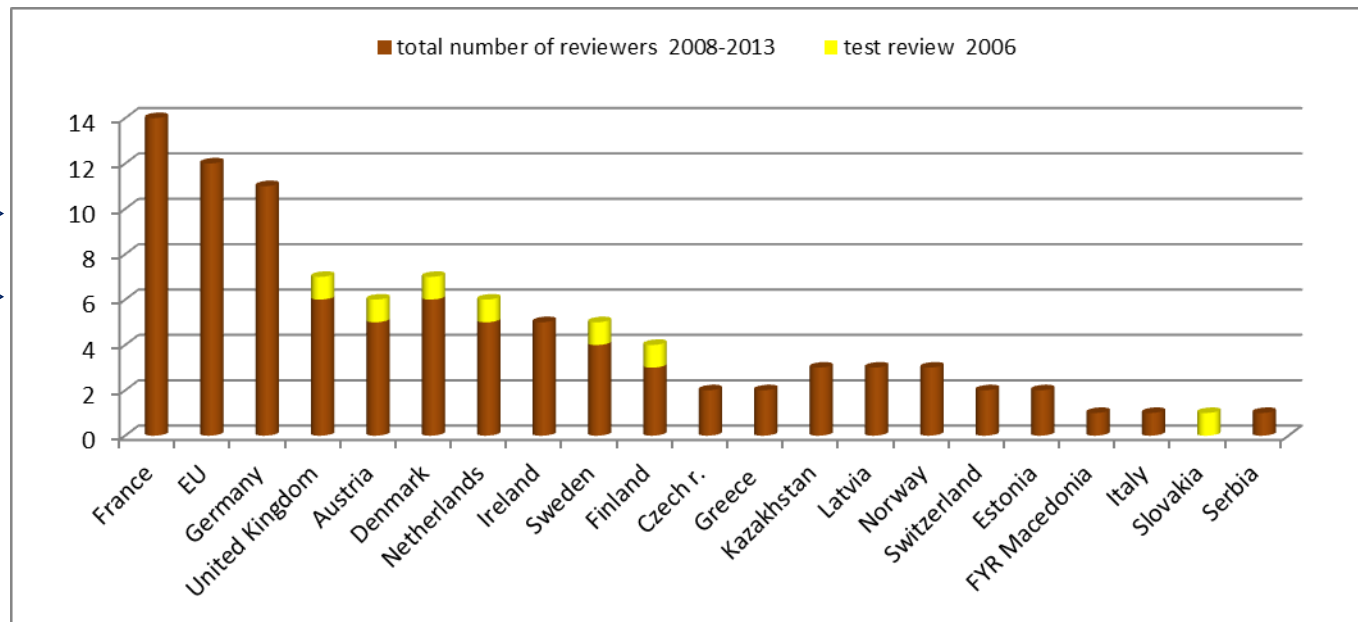
## 2010

France  
Germany  
The Netherlands  
Croatia  
Cyprus



# Stage 3 Review

- ✓ CEIP / EEA joint activity
- ✓ Support from Parties is crucial for the success of S<sub>3</sub>



<http://www.ceip.at/review-of-inventories/centralised-review-stage-3/>

# Stage 3 2013

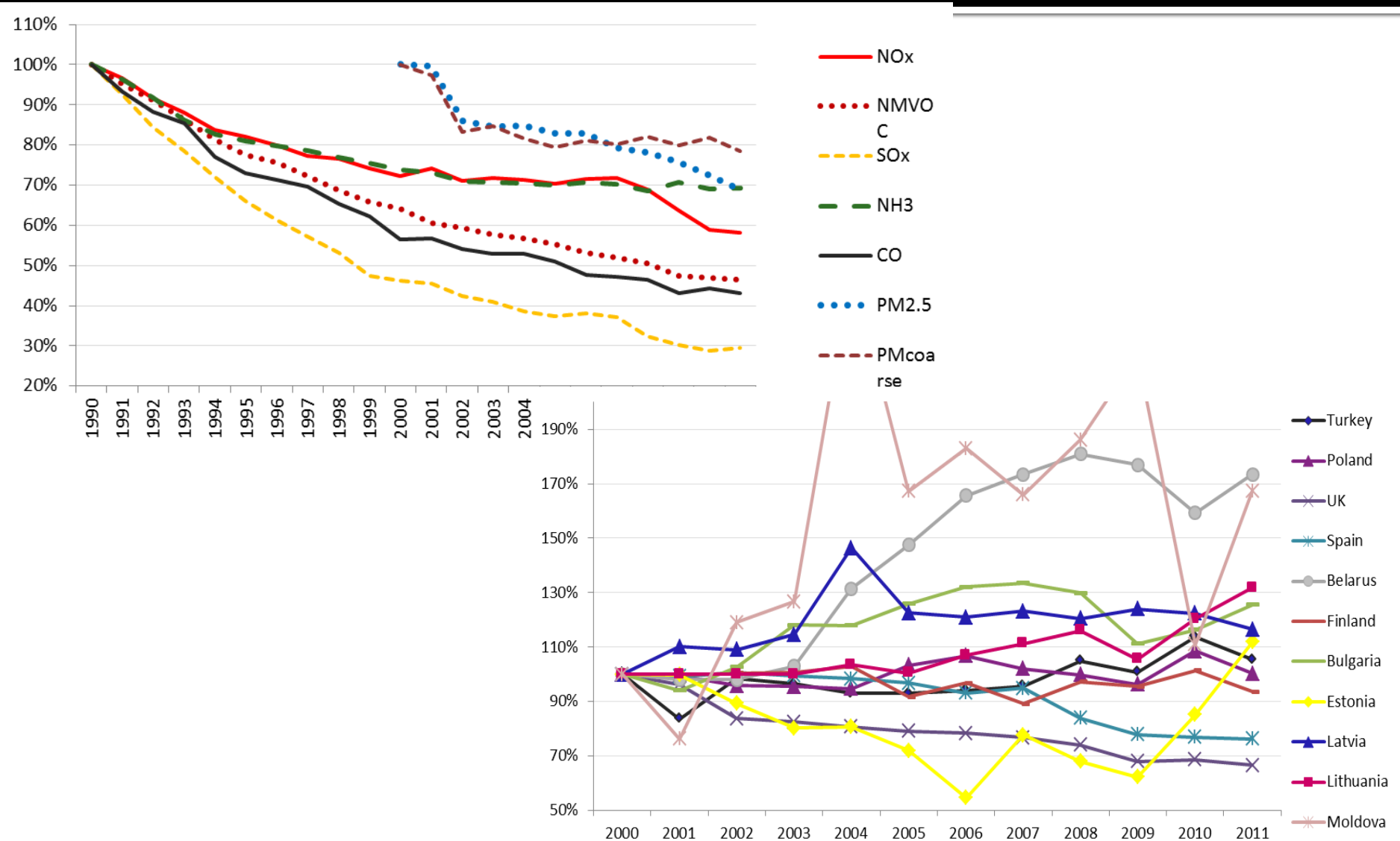
- Start of 2<sup>nd</sup> round
- 17-21 June 2013 at EEA premises in CPH
- **10** Countries reviewed by 2 ERTs  
*(missing 3 experts => limited review of Industrial sector, no review of Solvent for 5 Parties)*
- All 10 reports completed and sent to the Parties for comments

# S3 Reviews – 2013-2017

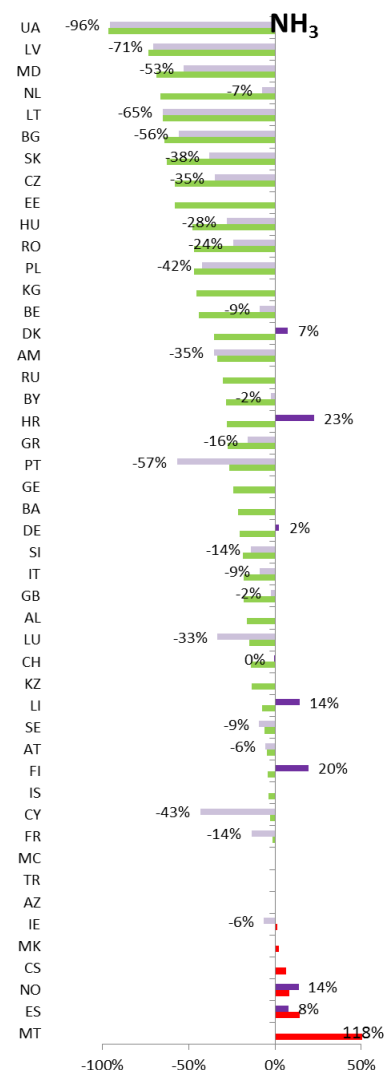
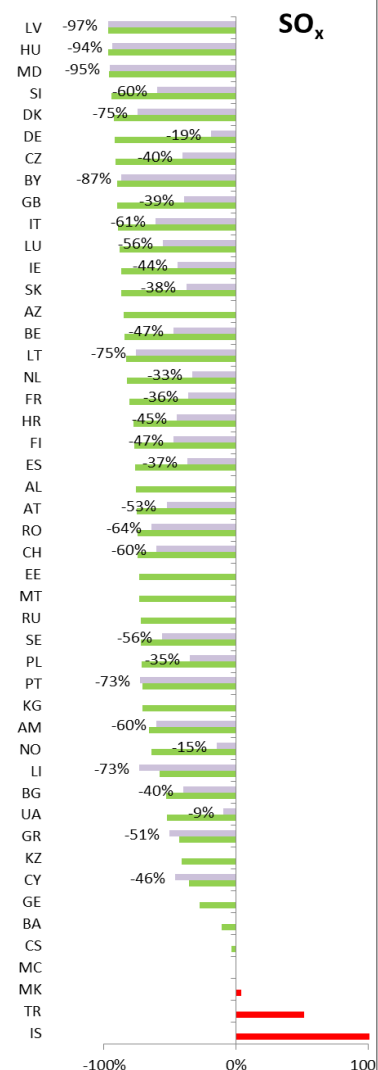
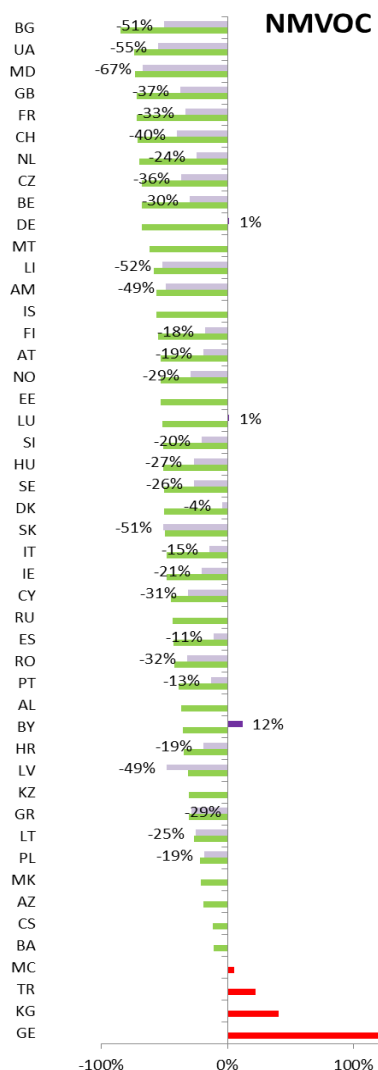
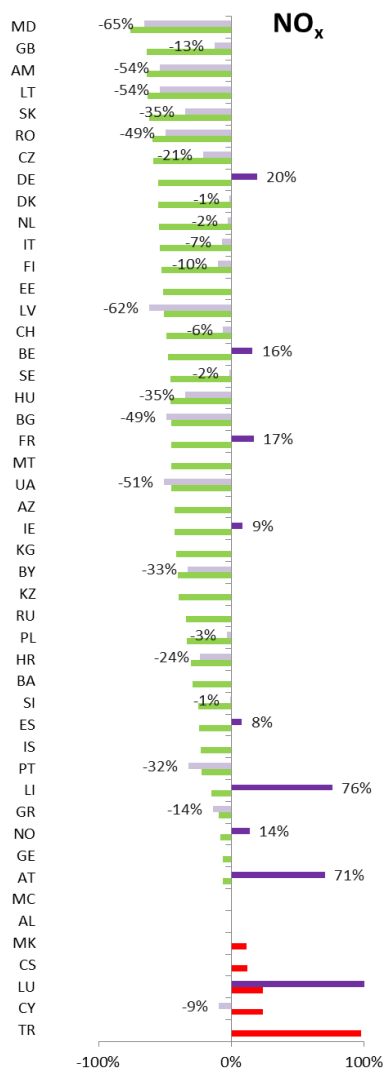
|             |   |
|-------------|---|
| <b>2013</b> | <i>Bulgaria, France , Italy, Latvia, Lithuania, Norway, Poland, Portugal, Romania, Sweden</i>                               |
| <b>2014</b> | Belgium, Greece, Cyprus, Denmark, Netherlands, Hungary, Ireland, Moldova, Russian Federation*, Spain                        |
| <b>2015</b> | Armenia, Azerbaijan, Belarus, Czech rep., Germany, Kazakhstan,, Slovakia, Slovenia, Switzerland, Ukraine                    |
| <b>2016</b> | Bosnia and Hercegovina, Finland, Croatia, Estonia, Kyrgyzstan, Luxembourg, FYR of Macedonia, Serbia, Turkey, United Kingdom |
| <b>2017</b> | Albania, Austria, EU, Georgia*, Iceland, Liechtenstein, Malta, Montenegro, Serbia   |



# Emission trends 1990 -2011 in EMEP area and some countries



# SO<sub>x</sub>, NMVOC, NO<sub>x</sub> and NH<sub>3</sub> differences 1990-2011 and distance of 2011 emissions to the GP targets



# Lessons learned

- Reporting of inventories and NIR is more or less stabilized , lot of areas for improvement identified annually
- The quality of reporting improved also in WB and some EECCA countries
- Reporting of gridded data and LPS is insufficient
- Countries which actively participate in the review process usually deliver “better” inventories
- Acknowledgement of good quality data motivates ...