



The "Right to Know"

-

the European Pollutant Emission Register
(EPER)

Bernd Mehlhorn / Magnus Gislev
European Commission, Environment DG

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The "Right to Know"

No clear definition exists!.....but it is about the

**Right of the public to access
environmental information**

(+ Public participation in decision making and access to
justice in environmental matters)



Public access to information

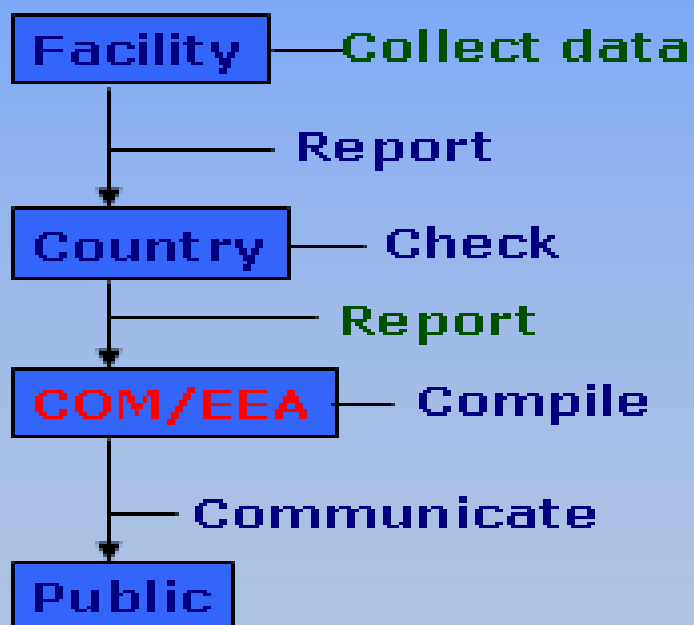
- Long tradition in European countries of permits for air emissions and water discharges
- Question by the public: What is in the permit and does the installation comply?
- Common rules on public access to environmental information on EU level in 1990 and 2003 (Directives 90/313/EEC and 2003/4/EC)
- Århus Convention (UNECE level), 1998



What is EPER ?

EPER= European Pollutant Emission Register

A process



A product

- **EPER Database** in the European Environment Agency
- **EPER Website** accessible for the public

A tool...

To implement the **“Right to Know”** and **reduce emissions**



Legal Background of EPER

Commission Decision 479/2000/EC on the implementation of EPER

- ◆ Based on Article 15(3) of the Directive on integrated pollution prevention and control (IPPC) from 1996
- "An inventory of the principal emissions and sources responsible shall be published every three years by the European Commission on the basis of the data supplied by the Member States."**



Content of EPER

1. **Emissions to air (direct) and water (direct and indirect) from 2001 and 2004;**
2. **Scope: Industrial facilities in Europe falling under IPPC Directive;**
3. **50 Pollutants above certain emission thresholds;**
4. **Quality assurance by facilities, quality assessment by competent authorities;**
5. **Indication if measured, calculated or estimated.**



Launch: 23 February 2004

First EPER reporting for year 2001

www.eper.ec.europa.eu

15 Member States + Norway + Hungary

About 9,200 facilities



EPER website

Looking for data

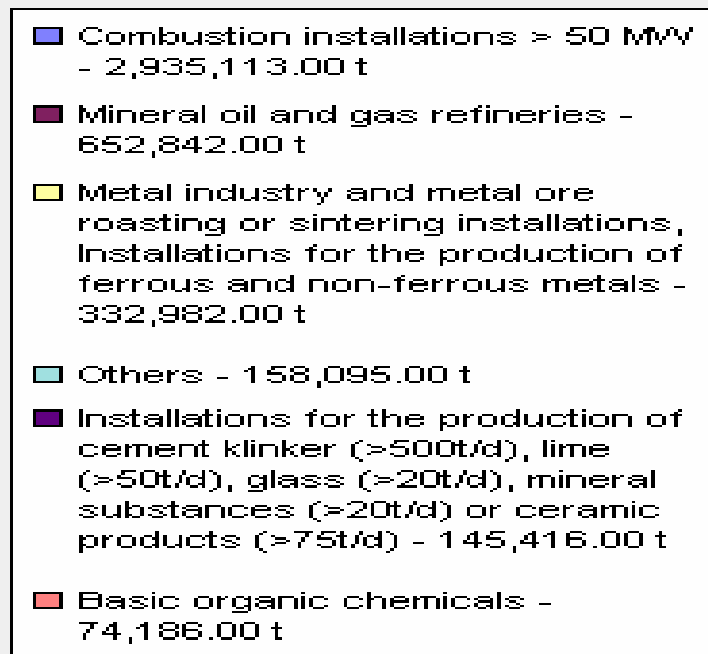
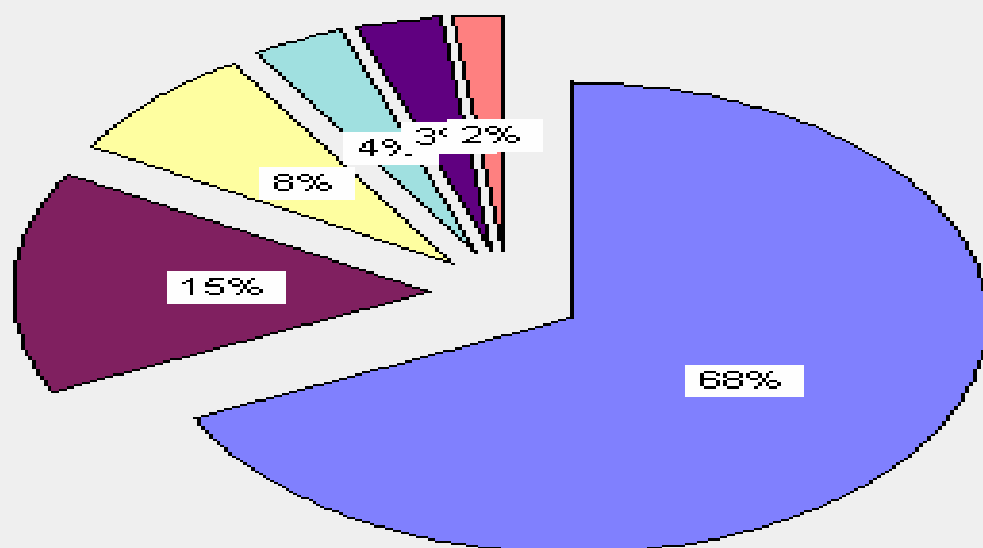
- Facility search ("my neighbourhood")
- Activity search
- Pollutant search
- Map search ("my neighborhood")



Pollutant/activity search

Example: SO_x emissions in 2001 (all activities)

Sulphur oxides (SO_x)





Pollutant/facility search

Example: 10 highest SO_x emitting facilities in EU (2004)

- | | |
|--|-----------|
| ● CENTRAL TERMICA AS PONTES (ES) | 312,000 t |
| ● PPC S.A., SES MEGALOPOLIS A (GR) | 216,000 t |
| ● Unidad de Producción Térmica Teruel (ES) | 163,000 t |
| ● BOT Elektrownia Belchatov S.A (PL) | 140,000 t |
| ● ZE PAK S.A. Elektrownia Patnowa (PL) | 88,400 t |
| ● UPT COMPOSTILLA (ES) | 71,900 t |
| ● EDF ENERGY (COTTAM POWER) LTD (UK) | 67,300 t |
| ● CENTRAL TERMICA DE MEIRAMA (ES) | 63,300 t |
| ● Elektrownia Koziniece S.A. (PL) | 57,200 t |
| ● Central Termoélectrica de Sines (PT) | 57,100 t |



Pollutant/facility search

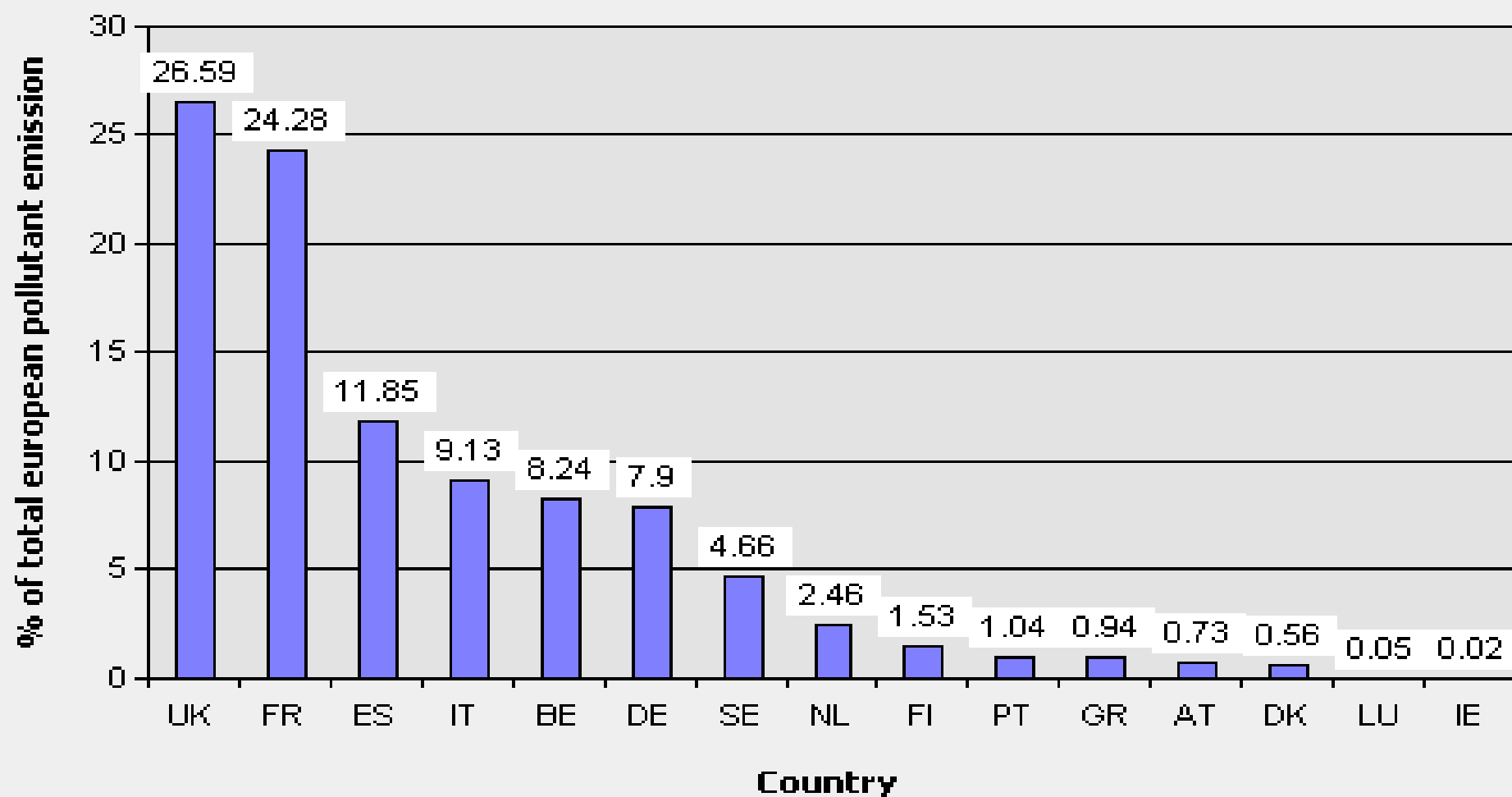
Example: 10 highest CO₂ emitting facilities (2004)

- | | |
|---|--------------|
| ● RWE Power AG, Bergheim (DE) | 27,600,000 t |
| ● Vattenfall, Jaenschwalde (DE) | 24,900,000 t |
| ● RWE Power AG, Frimmersdorf (DE) | 21,900,000 t |
| ● AES Drax Power Ltd, Selby (UK) | 20,500,000 t |
| ● RWE Power AG, Neurath (DE) | 20,100,000 t |
| ● RWE Power AG, Eschweiler (DE) | 20,000,000 t |
| ● Vattenfall, Kraftwerk Boxberg (DE) | 15,900,000 t |
| ● Centrale Termoelettrica, Brindisi (IT) | 15,800,000 t |
| ● PPC S.A. SES Agioy, DHMHTRIOY,
Thessaloniki (GR) | 13,500,000 t |
| ● E.ON Kraftwerke, Scholven (DE) | 12,900,000 t |



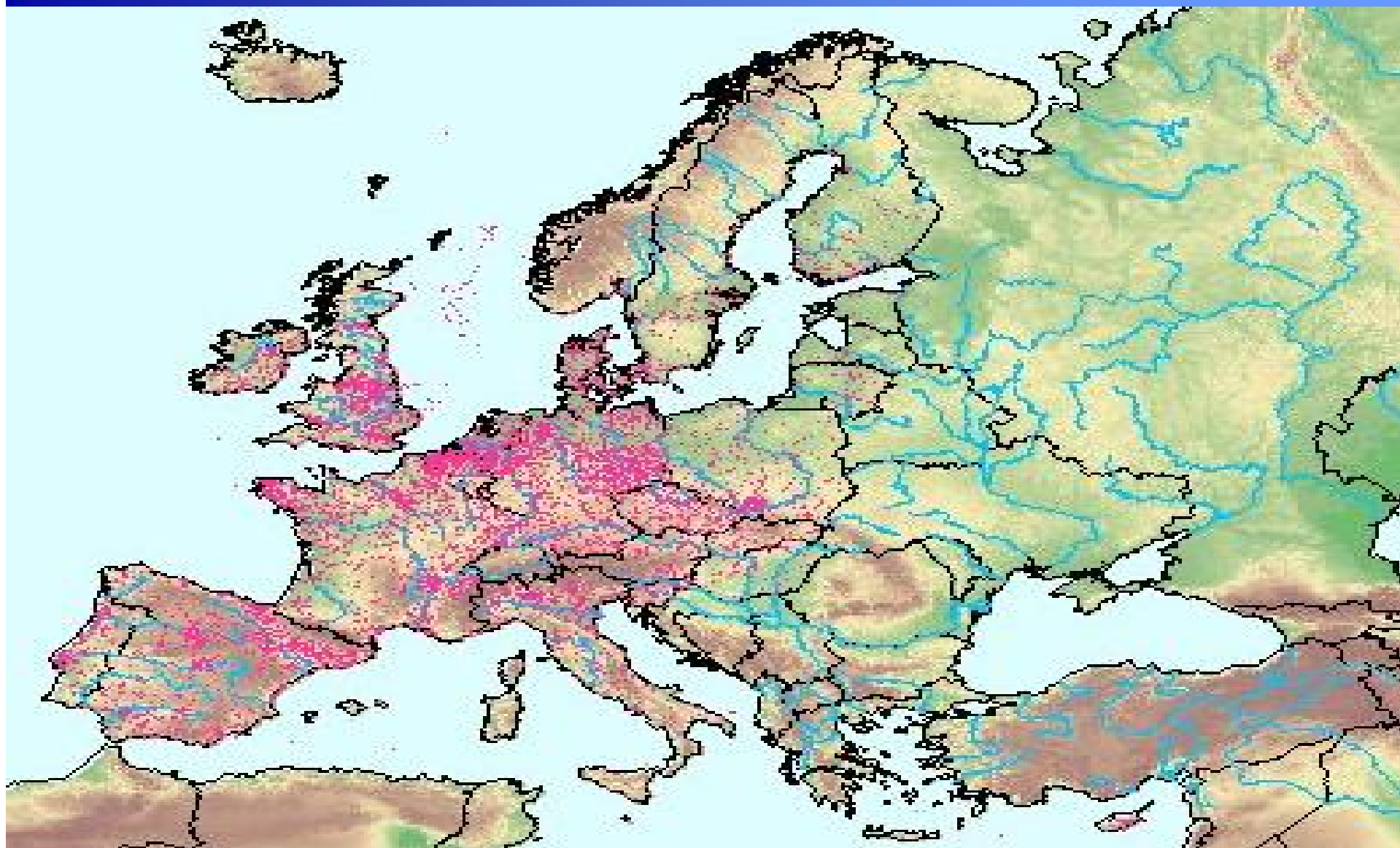
Pollutant NMVOC in EU 15 in 2001

Non methane volatile organic compounds (NMVOC)





Pollution sources in Europe, 2004





Map search/facilities



EPER
The European Pollutant Emission Register



>> Home > EPER search > Map search

Select language : English

Navigate

- ▶ What is EPER ?
- ▶ Questions to EPER
- ▼ EPER search
 - ▶ Facility level
 - ▶ Industrial activity
 - ▶ EU / Member State overview
 - ▶ Pollutants
 - ▶ Map search
- ▶ EPER Review
- ▼ Download
 - ▶ EPER data (XML)
 - ▶ EPER Guidance document
- ▼ Links
 - ▶ National registers
 - ▶ EU / international organisations
 - ▶ Contact us
 - ▶ Acknowledgements
 - ▶ Glossary

All facilities in my country

Select country

Latest update:

20-09-2006

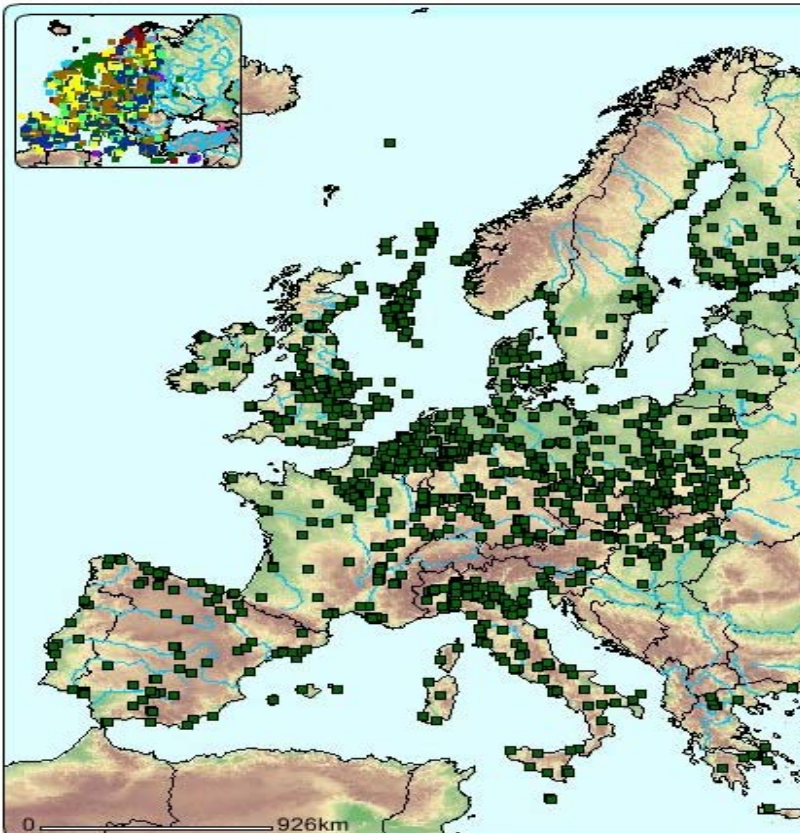
EPER - Pre-production mode

Map search



Year: 2004 - Pre

Map: Europe



Filters

Show facilities in activity

All activities

- 1 Energy industries
- 2 Production and processing of metals
- 3 Mineral Industry
- 4 Chemical industry
- 5 Waste management
- 6 Other industrial activities
- 6.1 Industrial plants for pulp and paper
- 6.6 Installations for poultry or pigs
- 6.7 Installations for surface treatment

Show facilities emitting

All pollutants

Show emissions to

- Air
- Water
- Both

Selection

Facilities currently selected



EPER in context

Reported EPER emissions cover for 2001 the following percentages of total reported loads of EU-15:

- 42 % of carbon dioxide
- 15% of methane
- 13% of dinitrogenoxide
- 6% of non methane volatile organic carbon
- 26% of nitrogen oxides
- 70% of sulphur oxides



Public's reaction to EPER

220,000 visits in the first year !!

- 40 TV stations, 8-min EPER video
- Visitors from Cocos Islands, Tuvalu, Greenland, Botswana...
- *Industry (15-20%), authorities (15-20%), private persons (20-25%), science (35-50%)*
- European Information Association: prize for best electronic tool in 2005 on European level
- Duration of visits:
mean: 20:35 min, median: 2:46 min



EPER “impacts”

- **Guidance document and Review report published. Detailed guidance for landfills and pig and poultry farms.**
- **Press release: “Name and shame” list of about 50 facilities with more than 10% of total European load of a pollutant**
- **Industry and Member States developed guidance for consistent reporting**
- **Download of EPER data: Use of EPER data for other purposes, e.g. WWF campaign on “climate change emitters”**
- **EPER as example for standard format for spatial information**
- **Start of an intensive dialogue between emission inventory experts on local, regional and national level**



2nd EPER reporting for 2004 emissions

**Data from EU 25 + Norway will be
on the website**

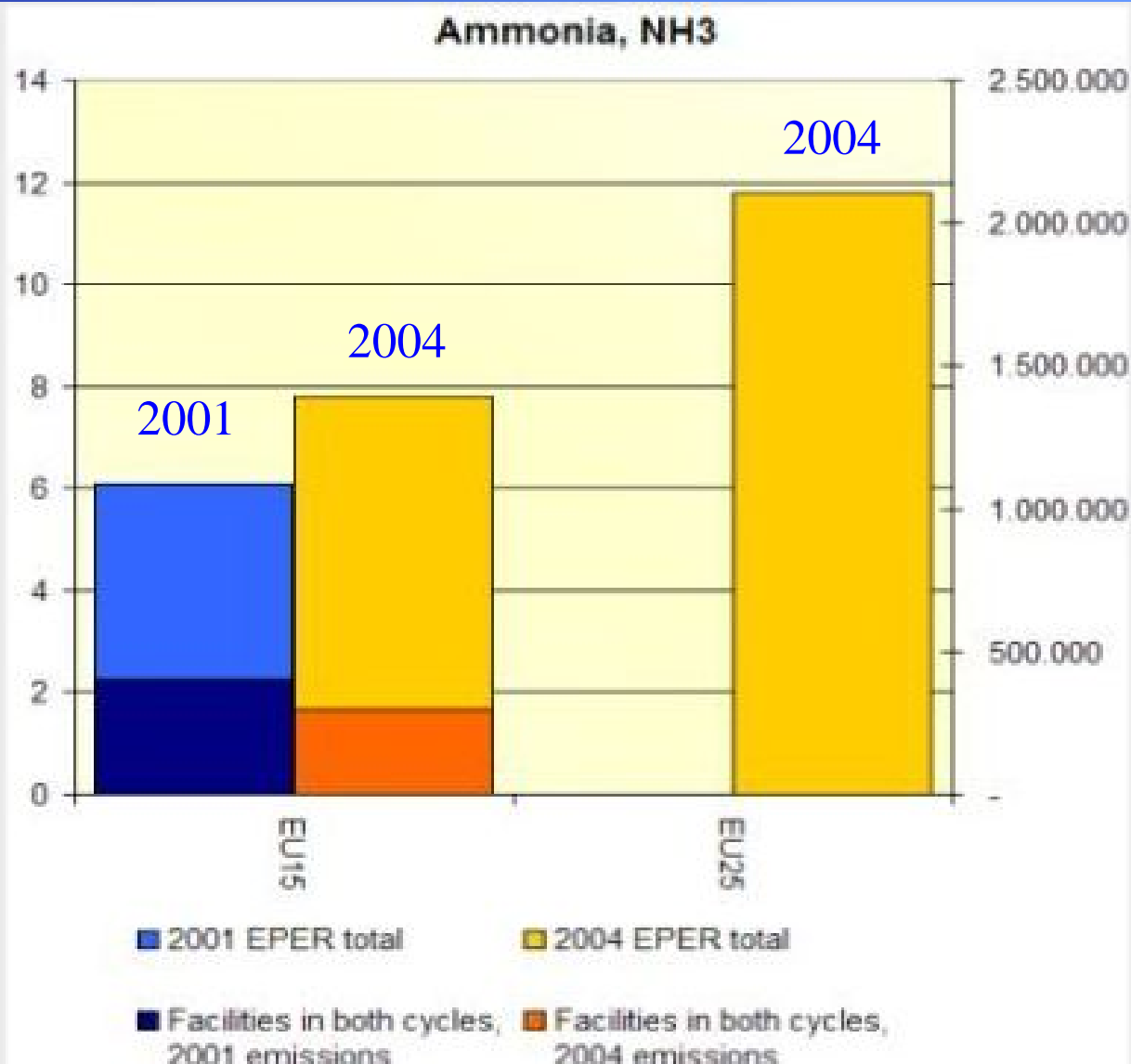
**launch in first week of
November 2006**



Comparison 2001/2004 (simulated data)

European total

This chart shows a comparison between reported emissions for 2001 and 2004. The bolder (darker) colours represent data reported for those facilities included in both years' data sets. The pale colours provide the sum for all reported emissions. Comparison of bolder colours provides a more realistic picture of changes in emissions between the two reporting cycles than the paler ones.





EPER only for 2001 and 2004

- **Århus Convention under UNECE**
 - includes obligation to establish PRTRs
(pollutant release and transfer registers)
- **36 countries + European communities signed the UNECE PRTR Protocol in May 2003 in Kiev**



European PRTR

Regulation (EC) No 166/2006 concerning the establishment of the European PRTR

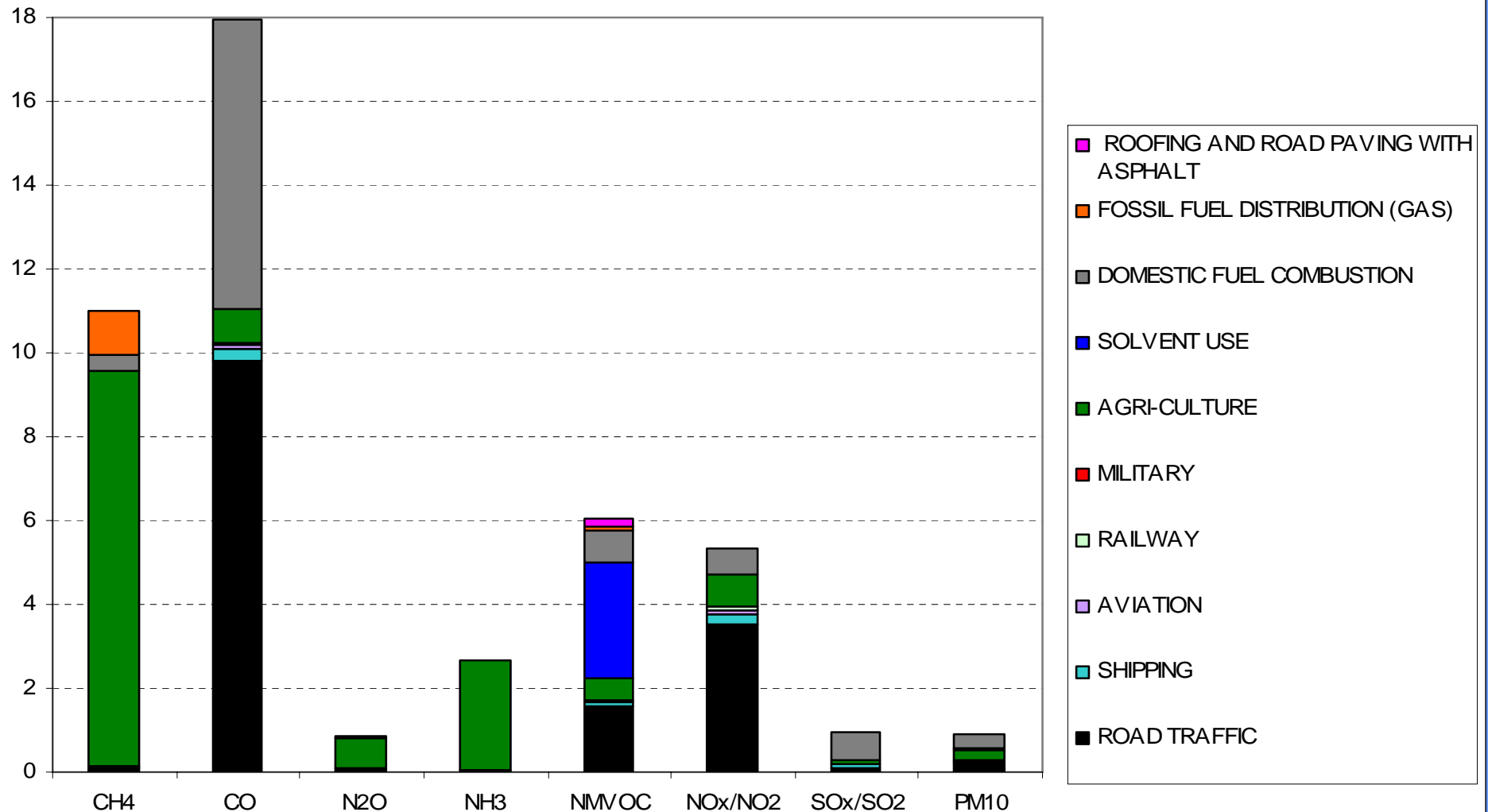
The European PRTR will extend the existing EPER from 2007:

- 65 activities (56)
- 91 pollutants (50)
- releases to land,
- separate reporting on accidents
- annual reporting
- off-site transfers of waste and waste water
- start with reporting on releases from diffuse sources



Releases into air from diffuse sources (mainly from 2003)

Releases per sector (MT/a)





Summary

EPER has achieved

Public access to European-wide facility-based emission data

Further pressures to reduce emissions

Sounder scientific basis for policy making

Initiation of a broad discussion on how to measure and calculate emissions at the source