



Norwegian  
Meteorological Institute  
*met.no*

## REPDAB & WEDBAD - QA/QC & Publication of national inventories

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# OUTLINE

- Reporting: Where can I find help?
- TEMPLATES
- REPDAB
- WEBDAB
  
- Your experiences with above



# Fulfilling reporting obligations

- We have collected activity data and emission factors and estimated emissions - what's next?
- TEMPLATES for reporting
- QUALITY CONTROL
- PUBLICATION



# TEMPLATES for reporting

- TEMPLATES for reporting:
  - In GUIDELINES (distributed)
  - On emep web site:

<http://www.emep.int/emis2005/reportinginstructions.html>



# Example of template, Table IV 1

<i>NFR sectors to be reported to CLRTAP</i>			Allowable aggregation	<i>Yearly minimum reporting</i>								
				Main Pollutants					Particulate matter			
				NO <sub>x</sub>	CO	NMVOC	SO <sub>x</sub>	NH <sub>3</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>	
				Gg NO <sub>2</sub>	Gg	Gg	Gg SO <sub>2</sub>	Gg	Mg	Mg	Mg	
1 A 1 a	(a)	1 A 1 a Public Electricity and Heat Production										
1 A 1 b	(a)	1 A 1 b Petroleum refining										
1 A 1 c	(a)	1 A 1 c Manufacture of Solid Fuels and Other Energy Industries										
1 A 2	(a)	<b>1 A 2 Manufacturing Industries and Construction</b>	A									
1 A 2 a	(a)	1 A 2 a Iron and Steel										
1 A 2 b	(a)	1 A 2 b Non-ferrous Metals										
1 A 2 c	(a)	1 A 2 c Chemicals										
1 A 2 d	(a)	1 A 2 d Pulp, Paper and Print										
1 A 2 e	(a)	1 A 2 e Food Processing, Beverages and Tobacco										
1 A 2 f	(a)	1 A 2 f Other (Please specify in a covering note)										

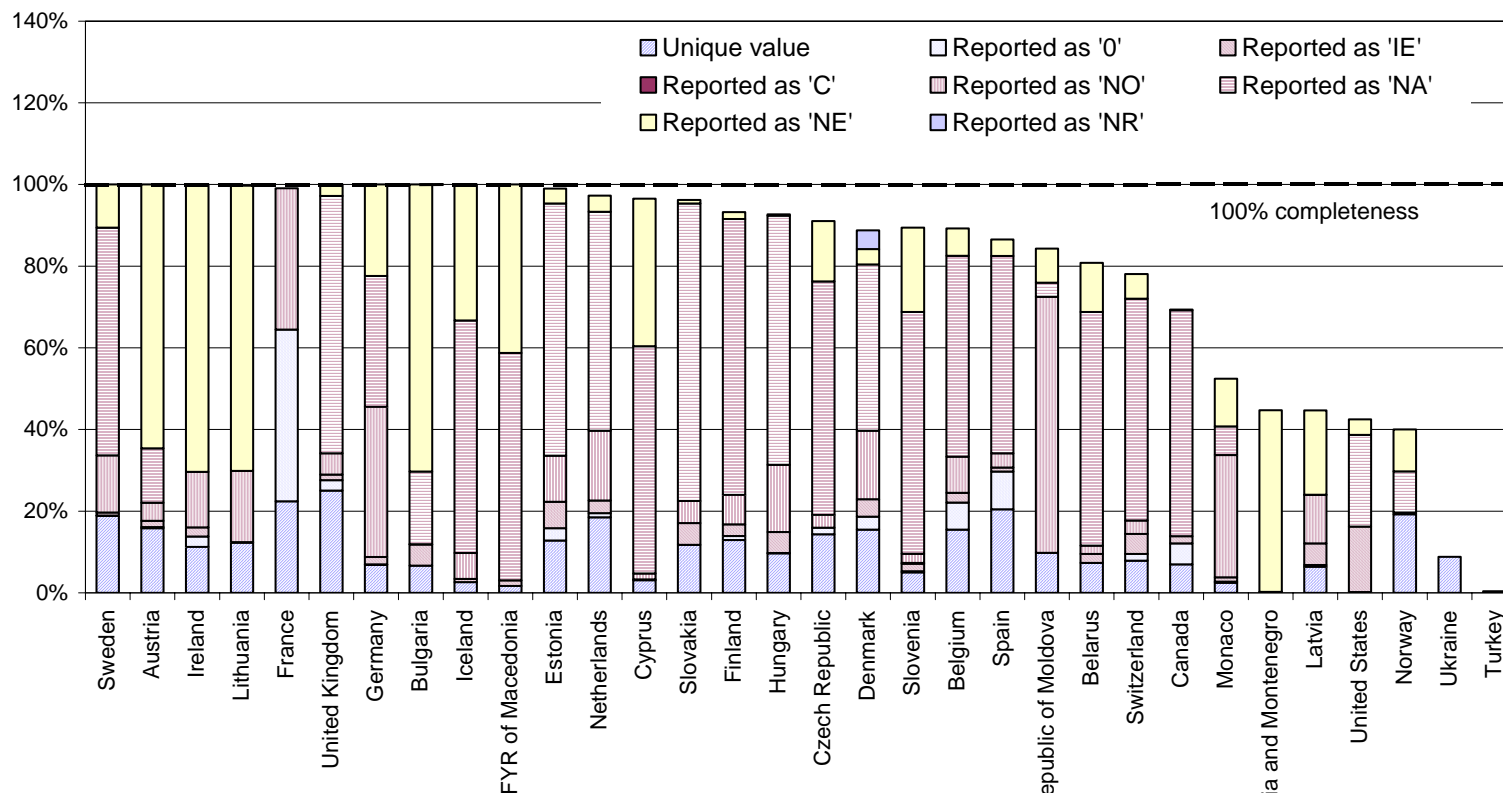


<http://webdab.emep.int/repdab.html>

- QA/QC for REPORTING of emission data in accordance with adopted Guidelines
- **Completeness** and **consistency** checks
- **Complete** = All "most aggregated" sectors are estimated or possible to estimate from sub-sectors
- **Consistent** = All sub-sectors sums up to aggregated levels



# Individual country reviews: Large differences in completeness for year 2003



*Completeness of submissions by country, all pollutants*  
*Note differences in the amount of reported emission values*  
*Good internal consistency of the reported values*



# What does REPDAB require and how does it work?

- Data files in **EXCEL** templates
- **Web application** - enter file -  
output to requested e-mail  
adresse.
- Notation key definitions in REPDAB:  
**NO, NA, IE, NE, C = 0** in calculations



# Repdab



## INTRODUCTION TO REPDAB:

REPDAB is an electronic tool to check the *format, completeness and internal consistency* of submissions of non-gridded emission data submitted to the secretariat of the Convention on Long-range Transboundary Air Pollution (CLRTAP) and submitted to the European Commission (ETC-ACC/EC) under the National Emissions Ceilings (NEC) directive. REPDAB is intended to assist Parties in their reporting of emissions to the Convention on LRTAP. It is also intended to ensure that the data submitted is in the correct format, complete, and free from internal inconsistencies.

In this first trial version of REPDAB, format and completeness checks are performed for national and sector emission data and for activity data information as specified in the revised Guidelines for Estimating and Reporting Emissions Data (EB.AIR/GE.1/2002/7 and Corrigendum 1). For gridded emission data, only file formats are currently checked. The recommended formats for submission of air pollution emission data can found on the [EMEP web site](#) in downloadable [templates](#). The template files are protected to allow insertion of data only in required fields. Though it is technically possible to override this protection, this is strongly discouraged because REPDAB will fail to read files with additional columns or rows.

## HOW TO USE REPDAB:

- Prepare your submission report as a ZIP or EXCEL file using the requested templates;
- **REMOVE WORKBOOK PROTECTION** on all files: Go to **tools -> Protect -> Unprotect workbook**. Password is : **emep**
- Type in the e-mail address where you want the output file from REPDAB (REPDAB Report) to be sent;
- Type in the file name of the ZIP or EXCEL file you want to check/process or select the file through the Browse button;
- Click on the "Send File" button;
- After approximately 15 minutes you should receive a REPDAB Report in your e-mail inbox.

**NB!** Remember to **REMOVE WORKBOOK PROTECTION** on files before submitting query : Go to **Tools -> Protect -> Unprotect Workbook**. Password is: **emep**

**E-mail address:**

**File to process:**

Check Grid Boundaries:  (Optional)

[EXAMPLE OF REPDAB-REPORT](#)








# REP DAB output

## Repdab Report on file: table1a.xls

Date: 14.10.2005

### Overview

Color Codes	
	Table passed all RepDab tests
	Table is incomplete
	Table contains inconsistent data
	Table is not in the correct format

	2003
Table1A	

### Detailed information on format, completeness and internal consistency





#### Table1A - 2003: table1a.xls (Ark1)











INCONSISTENCIES: Internal consistency error: NFR-code 1 A 2 <-> Sum of NFR-subsectors, Component: NOx: 4.7 <-> 0 Internal consistency error: NFR-code 1 A 4 b <-> Sum of NFR-subsectors, Component: NOx: 1.7 <-> 0
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# REPDA B overview

## Colour Codes

	Table passed all RepDab tests
	Table is incomplete
	Table contains inconsistent data
	Table is not in the correct format

	1993	1995	1998	1999	2000	2001	2002
Table 1 A							
Table 1 B							
Table 2 A							
Table 2 B							
Table 2 C							
Table 2 D							
Table 2 E							
Table 3 A							
Table 3 B							
Table 3 C							



<http://webdab.emep.int/>



Convention on Long-Range Transboundary Air Pollution

emep

Co-operative programme for monitoring and evaluation of the long-range transmissions of air pollutants in Europe



WebDab 2005

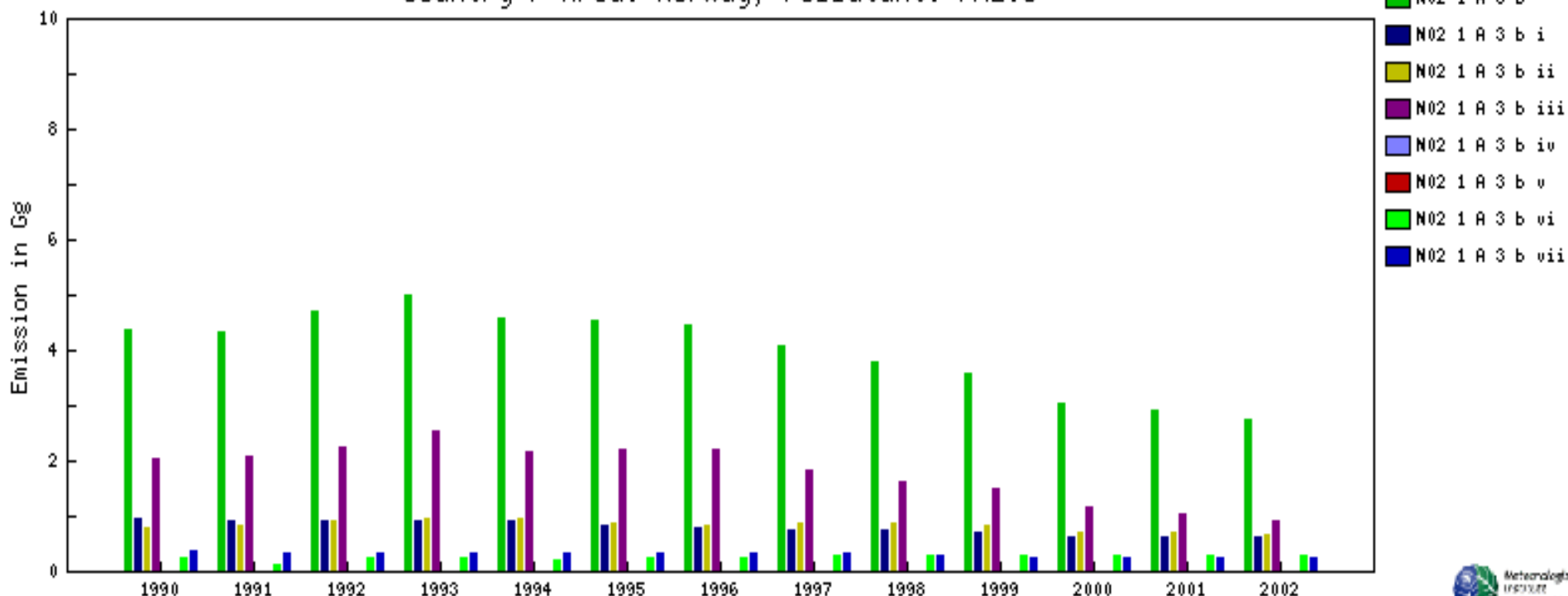
## Harmonized EUROPEAN inventories

- Official Emissions: Main, PM, HM, POP
- Activity Data
- Expert Emissions



# Official Sector Total Emissions PM<sub>2.5</sub> from road transport in Norway

Country / Area: Norway, Pollutant: PM2.5



1 A 3 b Road Transport

1 A 3 b i Road Transport, Passenger cars

1 A 3 b ii Road Transport, Light duty vehicles

1 A 3 b iii Road Transport, Heavy duty vehicles

(1 A 3 b iv Road Transport, Mopeds & Motorcycles)

(1 A 3 b v Road Transport, Gasoline evaporation)

1 A 3 b vi Road Transport, Automobile tyre and brake wear

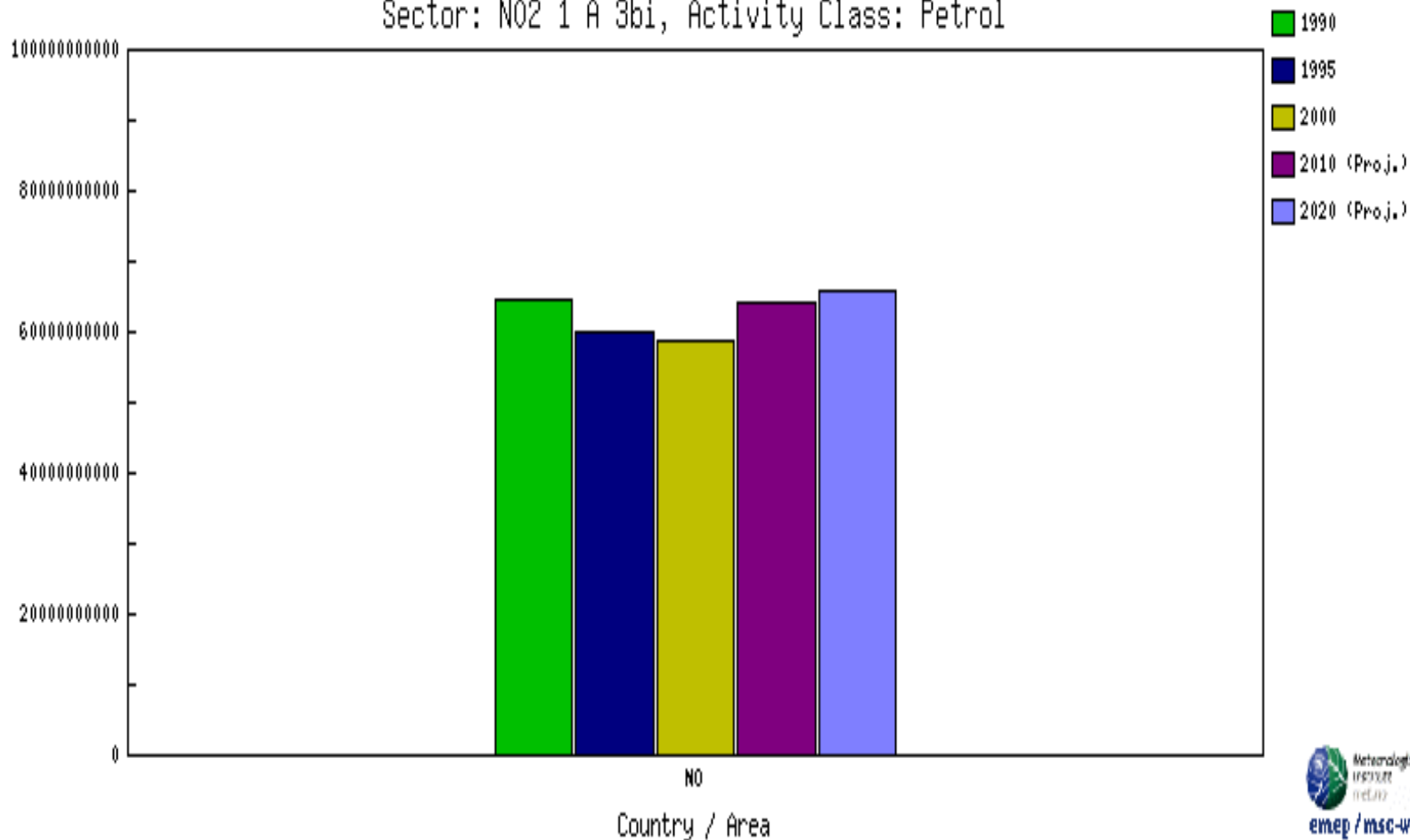
1 A 3 b vii Road Transport, Automobile road abrasion



# Activity Data

## Petrol consumption in passenger cars (MJ)

Sector: N02 1 A 3bi, Activity Class: Petrol





## Expert emissions cont.

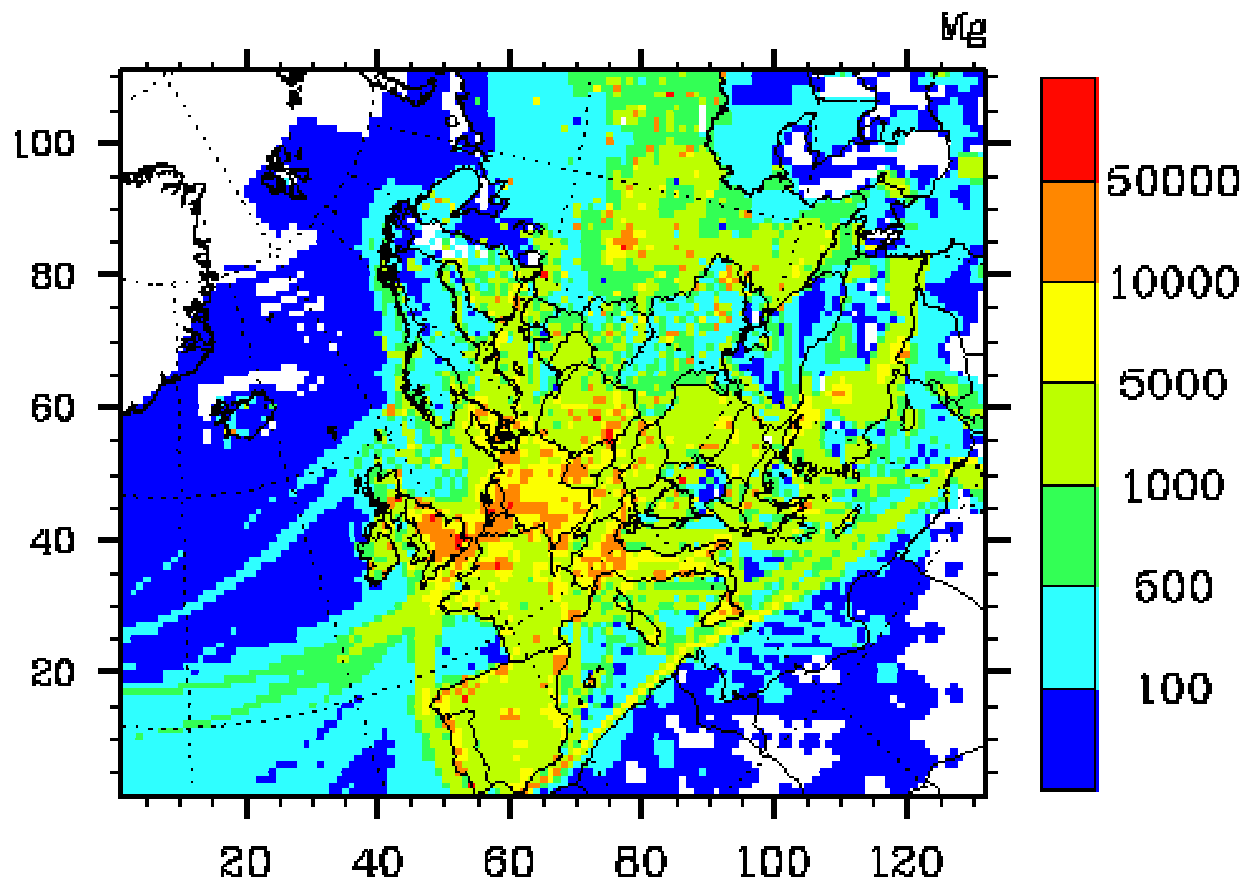
- **Gridded Sector Expert Emissions:**  
SO<sub>2</sub>, NO<sub>2</sub>, NH<sub>3</sub>, NMVOC, CO, PM<sub>2.5</sub> and PM<sub>coarse</sub> and HM, POPs
- Resolution **50x50 km<sup>2</sup>** (interpolation available to 0.5x0.5 °)
- Trends **1980-2003**
- Projections **2010, 2020, incl. Cafe scenarios**





# Expert Emissions

## European gridded NO<sub>x</sub> emissions





# Important dates, docs and help

- 15th February: Data to Brinda
- Guidebook: <http://reports.eea.eu.int/EMEPCORINAIR3/en>
- Guidelines:  
<http://www.unece.org/env/documents/2003/eb/air/ece.eb.air.80.E.pdf>
- Instructions:  
<http://www.emep.int/emis2005/reportinginstructions.html>
- QA/QC: <http://webdab.emep.int/repdab.html>
- Database: <http://webdab.emep.int/>
- EMEP reports: <http://www.emep.int/>
- Human help: [Vigdis.vestreng@met.no](mailto:Vigdis.vestreng@met.no) **and others!**



The end