# FINLAND'S REPORT UNDER DIRECTIVE 2001/81/EC

# NATIONAL EMISSION CEILINGS

### COUNTRY: Finland

**REPORTING DATE: December 14th 2010**

**Contents of the report uploaded to EIONET CDR (**[**http://cdr.eionet.europa.eu**](http://cdr.eionet.europa.eu)**) on 14.12.2010**

### *1 Emission data*

Final emission data for 2008and preliminary emission data for 2009under the NEC Directive are provided in the attached reporting tables "FI\_NECD\_1980\_2009\_10Dec2010.xls". Years 2007-2009 are in NFR09 format (Version NFR 2009-1) and emission data for the historical years 1980-2006 are included in the same file in NFR08 format (Version 2004-1).

Emissions for the years 1980-2006 have not yet been recalculated. Emission data for the historic years 1980-1999 have been reported year by year in its time to the CLRTAP Secretariat in SNAP format. After the revision of the reporting guidelines, data for each current year (year by year) have been reported in NFR format (years 2000-2006 are in NFR08 format in the attached reporting table). Finland is currently recalculating the time series 1990-2008 and anticipates reporting of these data to the UNECE CLRTAP Secretariat and to the EEA in 2012. As the data for the earlier years is in SNAP format, it is possible to report only the main sector categories or only the national totals in the NFR format for the older years. The recalculation of time series may lead to minor changes also in the data for 2007-2009.

The reported national emissions include emissions from the autonomic territory of Åland (Ahvenanmaa).

### Differences between the emission inventory reports under the UNECE CLRTAP and the EU NECD (see also Chapter 2.4.4 in the IIR)

The Finnish NECD report (deadline 31st December annually) contains the corrected estimates for the year N (e.g. 2008), the emissions of which have been reported under the UNECE CLRTAP by 15th February the same year. NECD "Preliminary data" for a given year N (e.g. 2008) submitted by 31st December in year N+1 (e.g. 2009) can be compared to data submitted under the UNECE CLRTAP by 15th February in year N+2 (e.g. 2010), however, there may be large differences in the emission values due to substantial improvements in the inventory after the reporting of preliminary data. NECD "Final data" for a given year N (e.g. 2008) will be reported under the EU NECD by 31st December in year N+2 (e.g. 2010).

The differences in these reports are due to correction of errors that have been identified after the first submission of the data for a given year, as well as fine-tuning of emission estimates when more detailed activity data has become available after the first submission of this data.

***Projections***

We do not currently have projections for 2010 but for the years 2020 and 2050, instead. Projections for 2020 and 2050 are presented in the attached reporting table FI\_NECD\_1980\_2010\_10Dec2010.xls (in NFR09 (Version NFR 2009-1) format).

The old projections for the year 2010 are presented in Table 1 below on page 2 of this document. Information on the socioeconomic assumptions used in the preparation of the old projections for the year 2010 are presented in Table 2 below on page 2 of this document.

# *Inventory Report*

The Finnish Informative Inventory Report 2010 is uploaded into the EIONET CDR in two parts (Part 1 Methodology, Analysis and Trends and Part 2 Annexes).

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### Table 1. Finnish emission projections for the year 2010

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **SOx (as SO2)**  Gg | **NOx (as NO2)**  Gg | **NH3**  Gg | **NMVOC**  Gg |
| Year 2010 | 97.5 | 151.0 | 31.0 | 130.0 |

**Table 2. Information on socioeconomic assumptions used**

**in preparation of Finnish emission projections for the year 2010**

|  |  |
| --- | --- |
| **Primary energy [PJ/a] total 2010**  *Source: Environmental Impact Assessment of the National Climate Strategy* | **SUM** |
| peat | 73.13 |
| hard coal | 76.2 |
| coke | 7.3 |
| wood | 148 |
| black liquor/waste | 153 |
| heavy fuel oil | 70.06 |
| medium distillates | 179.12 |
| light fractions | 81.97 |
| gas | 248.39 |
| SUM fuel | 1037.17 |
| SUM total | 1037.17 |

RAINS model 7.52 IIASA:

Nitrogen oxides:Scenario: NBL\_NCS

Strategy: NFIN

Energy pathway: F

Sulphur oxide: Scenario: NBL\_NCS

Strategy SFIN

Energy pathway: F