

**EMEP assessment report
French contribution
1980-2000**

This document is an assessment of the French contribution within the framework of EMEP. The aim is to make a detailed analysis of the data transmitted to EMEP. The pollutant considered under the various protocol of the convention are studied : SO_x, NO_x, NH₃, VOC, PM, HM and POP.

I – Assessment of trends in pollutant deposition, concentration and emissions : (2-3 p.)

- a) Assessment of trends in measured deposition and concentration
 - French contribution to EMEP network
 - Analysis of trends for various pollutants (NO_x, SO_x, NH₃, COV)
- b) Assessment of trends in emissions
(NO_x, SO_x, NH₃, COV, HM, POP)

II – Analysis of trends : (2-3 p.)

- a) Influence of emissions reduction in EMEP area on concentrations and deposition in France : use of EMEP model results (matrices emissions-deposition matrices)
- b) influence of emissions reduction in France on concentrations and deposition in EMEP : use of EMEP model results (matrices emissions-deposition matrices)
(matrices emissions-deposition matrices)
- c) Influence of measures on emission reduction
(international background, energetic policy, national measures, research funding)

III – Environment status in France (1-1,5 p.)

- a) present status (acidification, eutrophication, photochemical pollution,...)
 - EMEP model results
 - measurements
- b) perspectives :
 - Photochemical pollution : CHIMERE forecasts for 2010
 - WGE and TFEIH progresses: dynamic modelling, health impacts
 - Other convention : POP, OSPAR, global mercury assessment, MEDPOL
 - Particulates, toxic metal, POP

IV – Further measures to be taken (1-1,5 p.)

Measures can be taken at international level, national level or both :

harmonization : on the model of measurement AC/QC, develop AC/QC on emissions estimates, effects estimates and cost function.
Further improvement of EMEP eulerian model
Synergetic use of data (emission, meteorology, measurements) : develop an adjoint for EMEP model?
Development of measurement program : heavy metals and POP
Improvement of emission estimates for heavy metal and POP
Improvement of emission reduction cost functions
Improvement of knowledge of effects on human health and ecosystems
Improvement of uncertainty management
Take into account uncertainty in policy making