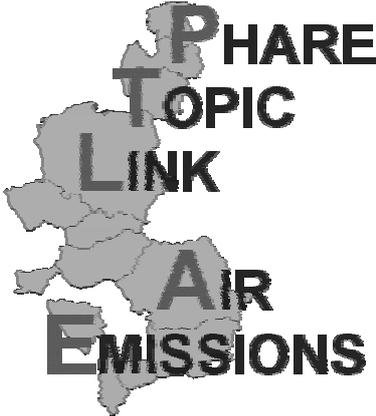


  **ACHIEVEMENTS in the field
of EMISSION FACTORS**

**Establishing a database on GHG emission factors
IPCC expert meeting in New Delhi, 24-25 July 2000**



Wanda Pazdan
Leader of PTL/AE
www.ptl-ae.atmoterm.pl





**Development for over 10 years
EMEP/CORINAIR GUIDEBOOK**

Common activity of EEA and UN/ECE

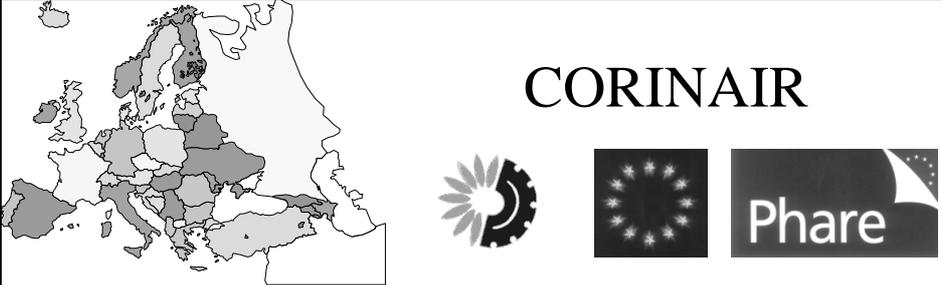


ECONOMIC COMMISSION FOR EUROPE
UN/ECE



One of the ETC-PTL work program tasks:

**DEVELOPMENT of
CORINAIR METHODOLOGY**



CORINAIR

Unified methodology for emissions inventory

Many years ago, in order to measure length, people created and introduced a model. We can see it near to Paris.

To compare emissions from different countries and years, CORINAIR is being developed in Europe for years.

MAIN CORINAIR catalogues:

SNAP - EMISSION SOURCE CATEGORIES (385)

POLLUTANTS

FUELS and its parameters

Emission factors

SNAP

SNAP Selected Nomenclature for Air Pollution

SNAP'90 / 94 / 97

SNAP'97 consist of
11 groups,
74 sub-group
385 elementary positions

Each elementary position can be split additionally to
different type of technology and fuels

SNAP positions occurring in emission inventories in cement plants

- 3.1 - combustion in boilers, gas turbines and stationary engines
- 3.3.11 - cement, combustion in manufacturing industry; processes with contact
- 4.6.12 - cement (decarbonizing),
- 5.1.3 - storage of solid fuel
- 5.5.3 - service stations (including refuelling of cars)
- 7.1.3 - urban driving - passenger cars
- 7.2.3 - urban driving - light duty vehicles < 3.5 t
- 7.3.3 - urban driving - heavy duty vehicles > 3.5 t and buses
- 7.6 - gasoline evaporation from vehicles
- 8.8 - other mobile sources and machinery - industry
- 8.2 - railways
- 9.10.1 - waste water treatment in industry



**In ATMOTERM's SOZAT system
data are collected
in much more detailed way
and then data may be transferred
automatically
in SNAP or NACE split**

ATMOTERM Sp. z. o.o.
ul. Katowicka 35
45-061 Opole, Poland
tel. (077) 4426666
fax. (077) 4426695

NOSE - EUROSTAT

Statistical Office of European Union prepared classification of emission sources in direct connection to NACE international ISIC classification of economic activities.

These works include the experiences of CORINAIR and SNAP catalogue.
There is also linkage to IPCC source/sink categories.

EMISSION FACTORS CATALOGUE

**Access to more detailed
and splitted information
results in better emission inventory quality.**

PTL/AE emission factors database

Collection by Phare National Experts and from
Phare CORINAIR databases 90 - 98

Data report in the form of printed tables and electronic Excel
database.

Collected data:
from 10 countries
for 25 pollutants

Number of records: 15000

STRUCTURE of the database

Country
SNAP
SNAP split
Fuel code
Fuel name
Pollutant
Emission factor
Unit
per
Quality
Comment (sources)

Planned users of Phare Emission Factors database:
Reference Centre (national experts) of the countries
which are preparing the CORINAIR emission inventory
for the first time

There is no need for a special software.
Windows environment with MS Office package is enough.

Sources of the data - national EMEP/CORINAIR emission inventory

Quality control:

Sending the db to NE for checking. Review by PTL/AE experts.
Sending to ETC/AE for comments. Formal EEA approval
for dissemination.

Access policy:

To be put on PTL/AE web site in Excel format and on internet webserver after formal approval of the countries and EEA Project Manager and EEA Phare Expert

Working language: English

Problems:

No clear, automatic differentiation was possible between real country specific emission factor and default CORINAIR emission factor. Lack of quality parameter and detail source data

After formal approval
the Phare countries Emission Factors Database
will be available at:

www.ptl-ae.atmoterm.pl

We received the opinion of National Expert
that preparation
of emission factors database
is a very fruitful activity



Ecology and economy are integrated
creating Sensory Nerveuse System for Earth

“Any corporate entity can be seen as subordinate to the larger planet organism, just as mitochondria are subordinate to the cell. Part of the function of a healthy cell is to monitor the productions of its mitochondria, and ration resources according to the needs of the larger organism for those products. From the perspective of the cell, or the larger earth, what goes into and what comes out of the subordinate entity must be closely monitored, while what actually goes on in the sub-entity is of lesser concern. “

citation from Mr Champagne "Gaia Brain: Integration of Human Society and the Biosphere"

