

ESTIMATING EMISSIONS FROM PART 'A' PROCESSES

Summary

Base Year: 2008

Emission estimates for Part A Processes in the LAEI 2008 were directly obtained from NAEI database and the Environment Agency (EA) database. The EA provided the initial emission estimates of the key pollutants for Part A processes from its 2007 Pollution Inventory (PI) database. The 2007 PI datasets were incorporated into the LAEI 2008 Part A Processes worksheet templates and updated accordingly.

Projection Years: 2011 and 2015

Projection of atmospheric emissions from Part A Processes to 2011 and 2015 were not undertaken; instead projections of atmospheric emissions to 2011 and 2015 were basically assumed to be the same as the 2008 emissions.

2008 emission estimation methodology

2008 base year emissions (expressed as kg/annum) from Part A Processes for the LAEI 2008 were obtained from the Environmental Agency database. The pollutants from Part A Processes included in the LAEI 2008 are as follows:

- Sulphur dioxide (SO₂)
- Oxides of nitrogen (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Non-methane volatile organic compounds (NMVOC)
- Benzene
- Butadiene
- Total particulate matter (PM)
- Particulate matter with a diameter of less than 10 mm (PM₁₀)
- Methane (CH₄)
- Nitrous Oxide (N₂O)

This inventory does not include all pollutants that may be of concern for health or other reasons (e.g. lead). However, information for other pollutants (such as NH₃, HBr, H₂S and dioxins) has been included where possible.

The Excel workbooks include individual worksheets for each Part A Authorisation and a summary worksheet for all the Part A authorisations.

UK NAEI data sets were used to estimate atmospheric emissions from fuel used by Part A processes. Data and information provided on the individual installations (usually in conjunction with data on location, operating conditions, fuel type and throughput) from the Environment Agency's (EA) databases of installations that participate in the EU Emissions Trading Scheme (EU-ETS) and data from the EA

Pollution Inventory (PI) were also used. In order to provide fuel use information for those installations not captured in the EU-ETS databases, the emissions data given in the EA PI was used.

Authorisation, process & stack parameters details

Where possible, details on the authorisations, processes and stacks were obtained from the public register and the Environment Agency. The most common data gap was the operating hours of the Part A processes; these were often assumed.

Annual Emissions

Annual emissions were taken from either the Environment Agency's Pollution Inventory (PI) or the public register. The Pollution Inventory is published on the Environment Agency's website.