



# Emissions Inventories

## Course Outline

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### SUMMARY

The Emissions Inventories one-day training course is aimed at local authorities involved in the review and assessment process, and also those involved in air quality management generally. Air pollutants are emitted from a wide range of sources, including traffic and industrial processes. A key component of assessing their impact is the collation of the emissions data. The resulting Emissions Inventory can be used as input for air dispersion modelling, as well as for greenhouse gas assessment and noise mapping, or for general planning purposes.

The GIS package ArcView will be used throughout the course as a visualisation/manipulation tool. It is helpful, but not essential, to have some familiarity with either ArcView or MapInfo.

Courses are run at CERC's offices in Cambridge from 9:30 am to 4:30 pm.

A buffet lunch will be provided by CERC.

### **Course Content**

The day is designed to give guidance on compiling an Emissions Inventory.

#### *Overview of Emissions Inventories*

#### *Discussion of specific groups of source data in an Emissions Inventory:*

*Industrial Processes (Part A, Part B sources), Boilers, Petrol Stations, Domestic, Commercial, Minor Roads, Hot Soaks, Cold Starts, Major Roads, Airports, Railways and Shipping.*

#### *Where and how to obtain source data*

#### *Discussion of specific information for each source type (aimed at dispersion modelling)*

*How to calculate emissions if not directly available; where to find emission factors for specific sources; scaling with UK emission estimates; using default values, where information is not available; stack parameters and fuel consumption data*

#### *Format of data*

*Discussion of different formats of data, depending on tools available (e.g. EMIT) and end purpose (e.g. importing into air dispersion models such as ADMS-Urban or ADMS-Roads).*

*- using MS Excel and MS Access templates, together with ArcView.*

*- using MS Excel to assimilate data to import into a database toolkit such as EMIT, with the aid of a GIS package (ArcView).*

#### *Worked examples and demonstrations*

*Format of data in an Emissions Inventory.*

*Incorporating domestic sources and minor roads (C and D) emissions in an Emissions Inventory – aggregating sources for the purpose of air dispersion modelling; importing data into ADMS-Urban).*

#### *Demonstration of EMIT (Emissions Inventory Toolkit) using ready-built Emissions Inventories*

#### *Discussion of any other issues*

Throughout the day tasks will be illustrated via a combination of demonstrations and worked examples.

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# CERC

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