

LONDON ATMOSPHERIC EMISSION INVENTORY**D. Hutchinson, J. Mattai***Greater London Authority, London, UK*

The London Atmospheric Emissions Inventory (LAEI) is a schedule of the sources of eight key pollutants (NO_x, SO₂, CO, NMVOC, CO₂, benzene, 1,3-butadiene and PM₁₀) and three 'subsidiary' pollutants (black smoke, methane and total suspended particulates) within Greater London and parts of 19 adjacent districts within the M25 motorway. The LAEI covers a total area of 2,466 km² with a population of 7.31 million people. The LAEI includes information on the amount of pollutants released from road traffic and other modes of transport, major industrial sources, and smaller stationary sources throughout the London area. Whilst measurements of pollutant concentrations in the atmosphere show the extent of air pollution, the LAEI facilitates the estimation of each pollutant emitted in the London area, and the assessment of the relative significance of the different sources of air pollutants and their geographical distribution. The LAEI also helps in the development of London's air quality improvement strategies. The paper outlines the history of the London inventories, describe the latest inventory released in October 2003, review the particular problems encountered in preparing the inventory, and outline the plans for further improvements.