

## 1. ESTIMATING EMISSIONS FROM SOLVENTS-BUILDINGS

### 1.1. Summary

**Base Year: 2008**

Because of lack of recent, representative and reliable activity datasets, atmospheric emissions from solvents for the 2006 base year were not estimated; they were simply assumed to be the same as those in the LAEI 2006 (which were based on 1997 activity datasets).

**Projection Years: 2011 and 2015**

Because of lack of recent, representative and reliable activity datasets for the 2008 base year, projections of atmospheric emissions from industrial and commercial boilers to 2011 and 2015 were not undertaken; instead projections of atmospheric emissions from industrial and commercial boilers to 2011 and 2015 were basically assumed to be the same as those in the LAEI 2006 (using 2010 projection).

### 1.2. 2008 emission estimation methodology: Same as the LAEI 2006 methodology

The LAEI 2008 emission estimation method for the solvents-building source was based on the 1996 methodology and datasets used by the London Research Centre in the compilation of the first LAEI.

The solvents-building emission source category includes NMVOCs not accounted for elsewhere and its emission estimation is entirely based on the methodology and datasets used by the LRC in the compilation of the LAEI 1999, mainly from solvent use.<sup>1</sup> The NMVOC emissions were taken from the Passant Report, "*Emissions of Volatile Organic Compounds from Stationary Sources in the UK*". Double counting in terms of Part A and Part B processes were taken out as far as possible, and the forecasts in the Passant report were used to bring the data to 1996 level. These emissions were apportioned to residential and/or employment census as appropriate. For London, as the employment is mainly service based, the manufacturing employment data was used. As many manufacturing companies also have their head offices in London, as service industry, this was seen to be reasonable. The speciation of VOCs and how they were apportioned to residential and employment population is given on a separate worksheet in the Area Sources Excel spreadsheet in the LAEI 2008.

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<sup>1</sup> There is a worksheet in the LAEI 2008 with speciation of the NMVOCs, which gives the proportions of emissions from each source.