

## Chapter 1.5 - Key Categories

The table below shows the key category analysis for the current reporting year. Dominant source categories vary largely for different pollutants. The key category analysis was carried out in accordance with the EMEP/UNECE guidebook for the base year (1990/1995/2000) and the actual year. Due to missing information on uncertainties, a tier 1 key category analysis was selected. Thus, the table gives “L” for category-pollutant combinations being key categories because of the high level of emissions. “T” indicates key categories resulting from trend analysis.

|                | Component |        |                 |                 |                   |                  |     |     |     |     |     |     |      |     |     |
|----------------|-----------|--------|-----------------|-----------------|-------------------|------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|
| Category Code  | NOx       | NM VOC | SO <sub>2</sub> | NH <sub>3</sub> | PM <sub>2.5</sub> | PM <sub>10</sub> | TSP | BC  | CO  | PB  | Cd  | Hg  | Diox | PAH | HCB |
| 1.A.1.a        | L/T       | -/-    | L/T             | -/-             | L/T               | L/T              | L/T | -/- | L/- | -/- | L/T | L/T | L/T  | -/- | L/- |
| 1.A.1.b        | -/-       | -/-    | L/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | L/- | -/- | -/-  | -/- | -   |
| 1.A.1.c        | L/T       | -/-    | L/T             | -/-             | -/T               | -/-              | L/T | -/- | -/- | -/- | L/T | L/T | -/-  | -/- | -/- |
| 1.A.2.a        | -/T       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -   | -/- | -   | -   | -/- | -/-  | -/- | -   |
| 1.A.2.b        | -/-       | -/-    | -/-             | -/-             | -                 | -                | -/- | -   | -/- | -   | -   | -   | -    | -   | -   |
| 1.A.2.c        | -         | -      | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.A.2.d        | -         | -      | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.A.2.e        | -/-       | -/-    | -/-             | -/-             | -                 | -                | -   | -   | -/- | -   | -   | -   | -    | -   | -   |
| 1.A.2.f        | -/-       | -/-    | -/-             | -/-             | -                 | -                | -/- | -   | -/- | -   | -   | -   | -    | -   | -   |
| 1.A.2.g.vii    | -/T       | -/-    | -/-             | -/-             | L/T               | -/T              | -/- | L/- | L/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.2.g.viii   | L/T       | -/-    | L/T             | -/-             | L/-               | -/-              | L/T | -/- | -/- | -/- | L/T | L/T | L/T  | -/T | -/- |
| 1.A.3.a.ii.(i) | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -    | -/- | -   |
| 1.A.3.a.i.(i)  | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -    | -/- | -   |
| 1.A.3.b.i      | L/T       | L/T    | -/-             | -/-             | L/T               | L/T              | -/- | L/T | L/T | L/T | -/- | -/- | -/-  | -/- | -   |
| 1.A.3.b.ii     | L/-       | -/-    | -/-             | -/-             | L/T               | L/T              | -/- | L/T | -/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.3.b.iii    | L/T       | -/-    | -/-             | -/-             | L/T               | L/T              | -/- | L/T | -/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.3.b.iv     | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.3.b.v      | -         | L/T    | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.A.3.b.vi     | -         | -      | -               | -               | L/-               | L/-              | L/- | L/- | -   | L/- | -/- | -   | -    | -/- | -   |
| 1.A.3.b.vii    | -         | -      | -               | -               | L/-               | L/-              | L/- | -   | -   | -/- | -/- | -   | -    | -   | -   |
| 1.A.3.c        | -/-       | -/-    | -/-             | -/-             | L/-               | L/-              | L/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -/- |
| 1.A.3.d.ii     | L/-       | -/-    | -/-             | -/-             | L/T               | -/T              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -/- |
| 1.A.3.e.i      | -/-       | -/-    | -/-             | -               | -/-               | -/-              | -/- | -   | -/- | -   | -   | -/- | -    | -   | -   |
| 1.A.4.a.i      | L/-       | L/T    | -/-             | -/-             | L/T               | L/T              | L/T | -/- | L/T | L/- | -/- | -/- | L/-  | L/- | -/- |
| Category Code  | NOx       | NM VOC | SO <sub>2</sub> | NH <sub>3</sub> | PM <sub>2.5</sub> | PM <sub>10</sub> | TSP | BC  | CO  | PB  | Cd  | Hg  | Diox | PAH | HCB |
| 1.A.4.a.ii     | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.4.b.i      | L/-       | L/T    | L/T             | -/-             | L/T               | L/T              | L/T | L/- | L/T | -/- | -/- | L/- | L/-  | L/T | L/- |
| 1.A.4.b.ii     | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | L/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.4.c.i      | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -/- |
| 1.A.4.c.ii     | L/-       | -/-    | -/-             | -/-             | L/T               | L/T              | -/- | L/T | -/- | -/- | -/- | -/- | -/-  | -/- | -   |
| 1.A.4.c.iii    | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -/- |
| 1.A.5.a        | -/-       | L/T    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -   | -   | -/- | -/-  | -/T | -/- |
| 1.A.5.b        | -/T       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -/- | -/- | -/- | -/- | -/- | -/-  | -/- | -/- |
| 1.B.1.a        | -         | -/-    | -               | -               | -/-               | -/-              | -/- | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.B.1.b        | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | L/T | -/- | -/- | -   | -   | -/- | -/-  | L/T | -   |
| 1.B.1.c        | -         | -      | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.B.2.a.i      | -         | -/-    | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.B.2.a.iv     | -/-       | -/-    | -/-             | -               | -                 | -                | -   | -   | -/- | -   | -   | -   | -    | -   | -   |
| 1.B.2.a.v      | -         | -/T    | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 1.B.2.b        | -/-       | -/-    | -/-             | -               | -                 | -                | -   | -   | -/- | -   | -   | -   | -    | -   | -   |
| 1.B.2.c        | -/-       | -/-    | -/-             | -               | -/-               | -/-              | -/- | -/- | -/- | -   | -   | -/- | -    | -   | -   |
| 1.B.2.d        | -         | -      | -               | -               | -                 | -                | -   | -   | -   | -   | -   | -   | -    | -   | -   |
| 2.A.1          | -/-       | -/-    | -/-             | -/-             | -/-               | -/-              | -/- | -   | -   | -/- | -/- | L/- | -/-  | -/- | -   |
| 2.A.2          | -/-       | -/-    | -/-             | -               | -/-               | -/-              | -/- | -   | -/- | -   | -   | -/- | -    | -   | -   |
| 2.A.3          | -/-       | -/-    | L/-             | -/-             | -/-               | -/-              | -/- | -   | -/- | -/- | -/- | -   | -    | -   | -   |



|                      |            |             |            |            |              |             |            |           |           |           |           |           |             |            |           |
|----------------------|------------|-------------|------------|------------|--------------|-------------|------------|-----------|-----------|-----------|-----------|-----------|-------------|------------|-----------|
| <b>3.D.a.2.b</b>     | -/-        | -           | -          | -/-        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.a.2.c</b>     | -/-        | -           | -          | L/T        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.a.3</b>       | -/-        | -           | -          | -/-        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>Category Code</b> | <b>NOx</b> | <b>NMVO</b> | <b>SO2</b> | <b>NH3</b> | <b>PM2_5</b> | <b>PM10</b> | <b>TSP</b> | <b>BC</b> | <b>CO</b> | <b>PB</b> | <b>Cd</b> | <b>Hg</b> | <b>Diox</b> | <b>PAH</b> | <b>HC</b> |
| <b>3.D.a.4</b>       | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.b</b>         | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.c</b>         | -          | -           | -          | -          | -/-          | L/-         | L/-        | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.d</b>         | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.e</b>         | -          | -/-         | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.D.f</b>         | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | L/-       |
| <b>3.F</b>           | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>3.I</b>           | -/-        | -           | -          | -/-        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.A</b>           | -          | -/-         | -          | -          | -/-          | -/-         | -/-        | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.B.1</b>         | -          | -           | -          | -/-        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.B.2</b>         | -          | -           | -          | -/-        | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.a</b>       | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.b.i</b>     | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.b.ii</b>    | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.b.iii</b>   | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.b.iv</b>    | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.1.b.v</b>     | -/-        | -/-         | -/-        | -          | -/-          | -/-         | -/-        | -         | -/-       | -/-       | -/-       | -/-       | -/-         | -/-        | -/-       |
| <b>5.C.1.b.vi</b>    | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.C.2</b>         | -/-        | -/-         | -/-        | -          | -/T          | -/-         | -/-        | -/-       | -/-       | -/-       | -/-       | -         | -/-         | -/-        | -         |
| <b>5.D.1</b>         | -          | -/-         | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.D.2</b>         | -          | -/-         | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.D.3</b>         | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |
| <b>5.E</b>           | -          | -           | -          | -          | L/-          | L/-         | -/-        | -/-       | -         | -/-       | -/-       | -/-       | L/-         | -          | -         |
| <b>6.A</b>           | -          | -           | -          | -          | -            | -           | -          | -         | -         | -         | -         | -         | -           | -          | -         |

Legend: - = NA

## Qualitative criteria to identify Key Categories

According to guidebook section 2.4.3 parties to the convention have to assess qualitative criteria to identify key categories. The German inventory has been carefully checked and it was found that no additional categories need to be marked as key categories.

## Key Categories and Inventory Improvements

The results of the KCA, as presented above, are carefully checked each year and are an integral part of both the [inventory planning](#) and the [QA/QC activities](#). Key categories receive greater attention when quality control measures are taken and their methods are regularly checked for appropriateness. Where needed, key categories are more likely to have research funded that aims at moving them to a higher tier method.