

Appendix B: Availability of Country-Reported Emissions Data

Appendix B provides information on the availability of historical country-reported data used to estimate emissions of methane (CH₄), nitrous oxide (N₂O), and fluorinated greenhouse gases (F-GHG) by country and source. The tables in this appendix correspond to the four sectors studied in this report. The contents of this appendix are as follows:

- Table B-1: Availability of Country-Reported Data to Estimate Energy Sector Source Emissions, by Country
- Table B-2: Availability of Country-Reported Data to Estimate Industrial Processes Sector Source Emissions, by Country
- Table B-3: Availability of Country-Reported Data to Estimate Agriculture Sector Source Emissions, by Country
- Table B-4: Availability of Country-Reported Data to Estimate Waste Sector Source Emissions, by Country

For each source and country within each of the sectors, Appendix X indicates whether the estimates are based on country-reported data, IPCC Tier 1 estimates (T1), or other methodologies (O). If emissions for a given country and source are not estimated or are equal to zero, the corresponding cell is left blank.

Country-Reported Data. Where estimates are based on country-reported emissions data, the years of available country-reported data are presented. For countries with reported data, historical and projected time-series are a combination of country reported estimates, where available, interpolated values based on country-reported estimates, and extrapolated values based on country reported estimates and derived growth rates or other drivers, as indicated in the Methodology Chapter. A majority of the reported data was derived from the UNFCCC flexible query system and National Inventories Common Reporting Format (CRF) files; however, some data were also obtained from individual National Communications and Biennial Update Reports.

IPCC Tier 1 Estimates. A “T1” designation indicates that country-reported data were not available for a given country and source, so the emissions presented in this report are based solely on Tier 1 emissions estimates. EPA developed Tier 1 emissions estimates consistent with methodologies outlined in the *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories* (1996 IPCC Guidelines) (IPCC, 1997), the *IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories* (IPCC Good Practice Guidance) (IPCC, 2000), and the *2006 IPCC Guidelines for National Greenhouse Gas Inventories* (IPCC Guidelines) (IPCC, 2006).

Other Methodologies. An “O” designation indicates that emissions estimates are not based on country-reported data and that EPA developed emissions estimates using a methodology other than Tier 1 (e.g., Tier 2, Vintaging Model). The specific methodology used for each source is outlined in the Methodology Chapter.

Blank Cells. A cell is left blank if emissions for the given source and country were not estimated or are equal to zero across the entire time-series.