

Name of dataset or data source:

Air Emissions Inventory for the Greater Metropolitan Region in New South Wales

Custodian of the dataset or data source:

Environment Protection Authority

Description:

The air emissions inventory is a detailed listing of pollutants discharged into the atmosphere by each source type during a given time period and at a specific location.

Data quality rating:

- Institutional Environment
- ★ Accuracy
- ★ Coherence
- ★ Interpretability
- ★ Accessibility



INSTITUTIONAL ENVIRONMENT

Medium



- ✓ The agency publishing this data is the recognised data custodian.
- ✓ Data governance roles and responsibilities are clearly assigned for this dataset or data source.
- ✓ Custodian has no commercial interest or conflict of interest in the data.

- ✗ Data is not collected or managed according to a data quality framework.
- ✗ Data collection is not mandated or required by a law, regulation or agreement.

Find out more about the data governance responsibilities from the Custodian (contact details below).



ACCURACY

High



- ✓ This data has been subject to quality assurance processes. ie Checking for errors at each stage of data collection and processing, or verifying data entry and making corrections if necessary.
- ✓ The data collection met the objectives of the primary user. The data correctly represents what it was designed to measure, monitor or report. Refer to *Scope and Coverage* in the last section of this report for more information.
- ✓ There are no known gaps in the data. (For example: non-responses, missing records, data not collected.)

- ✓ There have not been any adjustments, changes or other factors that could impact the validity of the data. (For example: weighting, rounding, de-identification of data; changes or flaws in data collection or verification methods.)
- ✓ The revision policy is described below

Find out more about the quality assurance processes from the Custodian.

Revision policy: The data is updated every five years.



COHERENCE

Medium



- ✓ Standard definitions, common concepts, classifications and data recording practices have been used.
- ✓ Elements within the data can be meaningfully compared.
- ✓ This data is generally consistent with similar or related data sources.
- ✓ This data is consistent with previous releases. There have been no changes in methodology or external impacts since the last release in this series.

- ✗ This data is part of a time series. There have been significant changes in the way data items are defined, classified or counted since the start of the series.

More information about standards: The Australian Bureau of Statistics Australian Statistical Geography Standard is used as the geographical reference, and the Australian and New Zealand Standard Industrial Classification (ANZSIC) used for industry classification.

More information about similar or related data sources: The National Pollutant Inventory (NPI) reports the annual emissions from industrial premises. Many of the emission estimation techniques used are common to both datasets and the emissions generally compare very well.

This dataset or data source is part of a time series.

Data was first collected or produced on 01/08/2007

Changes that could cause a break in the consistency of data items over time: Emission estimation techniques are reviewed and revised at each inventory revisions where improved data and methodologies are available. This may lead to some level of uncertainty when comparing the time series data for some sources. A particular classification change to note is that dust emissions generated by off-road mobile vehicles & equipment was included in the off-road sector in the 2003 inventory but is included in the industrial or commercial sectors in the 2008 inventory.



INTERPRETABILITY

Medium



- ✓ Information is available about the primary data sources and methods of data collection. (For example: instruments, forms, instructions.)
- ✓ Information is available to help Users evaluate the accuracy of the data and any level of error.
- ✓ Information is available to explain concepts, help Users correctly interpret the data and understand how it can be used.
- ✓ Information is available to explain ambiguous or technical terms used in the data.

- ✗ There is no data dictionary available to explain the meaning of data elements, their origin, format and relationships.

Find out more about the more about the primary data sources and methods of data collection from <http://www.epa.nsw.gov.au/air/airinventory.htm>

Find out more about how to evaluate the accuracy of the data and any level of error from <http://www.epa.nsw.gov.au/air/airinventory.htm>

Find out more about concepts used in this dataset and how to understand or interpret the data from <http://www.epa.nsw.gov.au/air/airinventory.htm> & <http://www.epa.nsw.gov.au/air/airemissionsinmycommunity.htm>

Find out more about ambiguous or technical terms used in the data from <http://www.epa.nsw.gov.au/air/airemissionsinmycommunity.htm>



ACCESSIBILITY

High



- ✓ This dataset or data source is available online with an **open licence** –Attribution-NonCommercial (CC BY-NC)
- ✓ This dataset or data source is available in a **machine-processable, structured format**.
- ✓ This dataset or data source is available in a **non-proprietary format**.
- ✓ This dataset or data source is described using **open standards** and **persistent identifiers**.
- ✓ This dataset or data source is **linked to other data**, to provide context.

This dataset or data source is available in the following digital file types or formats: Database, HTML, Image, XLS

Additional information about the use of identifiers and links to other

data: <http://www.epa.nsw.gov.au/air/airemissionsinmycommunity.htm>

Information to help users evaluate relevance

Scope & Coverage:

What the data was designed to measure, monitor, or report: The Air Emissions Inventory data estimates the magnitude and sources of air pollutants emitted to the atmosphere within the NSW Greater Metropolitan Region.

Target of the data collection: The air emissions inventory is a listing of pollutants discharged into the atmosphere within the NSW GMR. The data is collected to provide information to government, academics and the community.

There were no individuals, groups or occurrences excluded from the data collection.

Geographic detail:

Data cover the following geographic area(s): Localities

The data are available at the following levels of geography: Local Government Area (LGA), Postcode

At lower levels of geography, the data are represented or apportioned as follows: N/A

Outputs:

The data are available as: Primary (original raw numbers), Analytical (structured content, aggregated or derived information)

Other cautions:

The data does not represent or cover: While the data is detailed and extensive, some minor sources and pollutants may not be represented. Any source not explicitly listed in the reports at <http://www.epa.nsw.gov.au/air/airinventory2008.htm> should be regarded as excluded.

Other cautions or recommendations to enable effective use and interpretation of the data: The emissions data presented cannot be directly used to estimate local air quality. Refer to the Emissions vs ambient air quality section at <http://www.epa.nsw.gov.au/air/airemissionsinmycommunity.htm> for further information.

Reference period:

Period for which the data were obtained: 01/01/2008 - 31/12/2008

There were no exceptions to the data collection or observation period. (eg delays in receipt of data, changes to recording processes)

Timing:

Updates and revisions: Other

Revision policy: The data is updated every five years.

The data became available (ie released or published) on: 16/12/2013

Frequency of production:

Data is collected or expected to be produced: Every five years

DATA DISCLAIMER

NSW Government is committed to producing data that is accurate, complete and useful. Notwithstanding its commitment to data quality, NSW Government gives no warranty as to the fitness of this data for a particular purpose. While every effort is made to ensure data quality, the data is provided “as is”. The burden for fitness of the data relies completely with the User. NSW Government shall not be held liable for improper or incorrect use of the data.

For more information about this dataset or data source, contact:	Manager Major Air Projects
Custodian email:	air.majorprojects@epa.nsw.gov.au
Custodian phone:	(02) 9995 6094

 **Understanding the Data Quality Statement**

The data quality statement aims to help you understand how a particular dataset could be used and whether it can be compared with other, similar datasets. It provides a description of the characteristics of the data to help you decide whether the data will be fit for your specific purpose.

About the quality rating:

The reporting questionnaire asks five questions for each of these data quality dimensions:

- Institutional Environment
- Accuracy
- Coherence
- Interpretability
- Accessibility

For each question: “yes” = 1 point; “no” = 0 points

The number of points determines the Quality Level for each dimension (high, medium, low).

Only dimensions with four or five points receive a star.

Points	Quality Level	Star / No Star
0	LOW	No Star
1	LOW	No Star

2	LOW	No Star
3	MEDIUM	No Star
4	MEDIUM	Star
5	HIGH	Star

More information?

The data quality reporting questionnaire and further explanation of the data quality dimensions is provided in the NSW Government Standard for Data Quality Reporting published at <http://finance.nsw.gov.au/ict/data-interopability-standards>



Evaluating data quality

Quality relates to the data's "fitness for purpose". Users can make different assessments about the data quality of the same data, depending on their "purpose" or the way they plan to use the data.

The following questions may help you evaluate data quality for your requirements. This list is not exhaustive. Generate your own questions to assess data quality according to your specific needs and environment.

- What was the primary purpose or aim for collecting the data?
- How well does the coverage (and exclusions) match your needs?
- How useful are these data at small levels of geography?
- Does the population presented by the data match your needs?
- To what extent does the method of data collection seem appropriate for the information being gathered?
- Have standard classifications (eg industry or occupation classifications) been used in the collection of the data? If not, why? Does this affect the ability to compare or bring together data from different sources?
- Have rates and percentages been calculated consistently throughout the data?
- Is there a time difference between your reference period, and the reference period of the data?
- What is the gap of time between the reference period (when the data were collected) and the release date of the data?
- Will there be subsequent surveys or data collection exercises for this topic?
- Are there likely to be updates or revisions to the data after official release?