

→ Modeled annual average PM_{2.5} concentration (2018) µg/m³ For urban Jamshedpur, average $PM_{2.5}$ concentration was 96.4 \pm 32.2 μ g/m³. This is outside the national standard (40) and over nine times the WHO guideline (10).

→ Air monitoring infrastructure



CONTINUOUS STATIONS

- REQUIRED STATIONS
- → Annual averages from the national ambient monitoring program (2011-2015) µg/m³

PM ₁₀	SO ₂	NO ₂
144.3 ± 29.7	35.8 ± 3.7	47.0 ± 4.4

➔ Trend in PM₂ 5 concentrations, based on satellite observations and global model simulations (1998-2016) µg/m³







Designing an effective Air Quality Management (AQM) plan for a city requires robust data on levels of pollution, affected areas, source contributors, peaking trends and possible control mechanisms.

The Air Pollution Knowledge Assessment (APnA) City Program seeks to make this database available and also serve as a starting point for understanding air pollution.

The program, implemented by Urban Emissions and facilitated by Shakti Sustainable Energy Foundation, seeks to create a comprehensive, city-specific information pool by pulling together data from disparate sources, surveys, mapping and atmospheric modeling.

Policy options based on this information, and their implementation, would be the effective next steps in improving the air quality of our cities.



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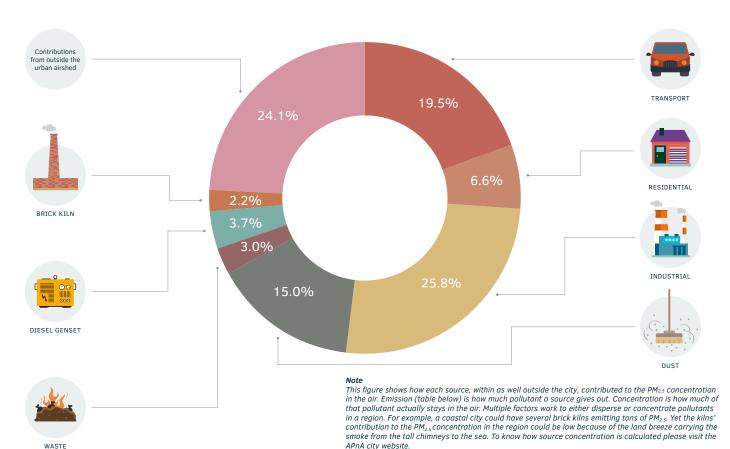




The city's PM_{2.5} concentration is over nine times the WHO standards. Industry and transport are the primary contributors.

For detailed information on Jamshedpur Air Quality, visit www.urbanemissions.info/india-apna

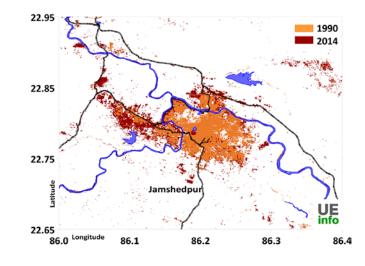
PM_{2.5} concentration : source-wise percentage share in 2018



WASTE







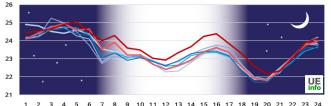
→ Global Human Settlements (GHS) built-up area

Urban areas in India are growing at a rapid rate. Using satellite observations derived Global Human Settlements (GHS) database, we can map the spatial footprint of a city over time. The map above shows the increase in built-up area between 1990 and 2014. An increase in built-up area usually means greater construction activity, intra-city transport, waste generation, and overall energy demand.

Urban land-use planning and provision of public transportation services is essential to address air pollution for cities in the future.

The graph below charts average speed of traffic by hour for everyday of the week within the city. As expected, speeds are greater at night and on Sundays and slows at peak times during the week. This is a summary of data extracted using Google Maps API services.

→ Hourly urban traffic speeds



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MON -TUE WED THU -FRI -SAT -SUN