

Clean Air Summit

Opening Session

Dr Kate Wilson

Executive Director Science Division, NSW Office of Environment and Heritage

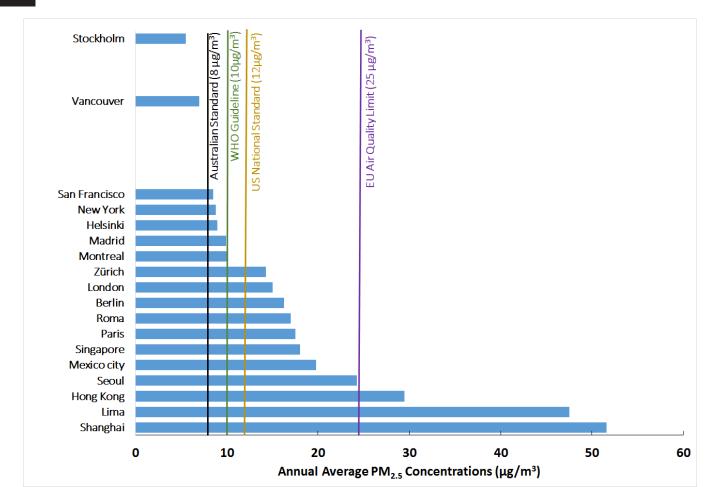


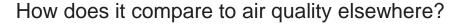
NSW Air Quality – current state and trends and how we will measure improvements



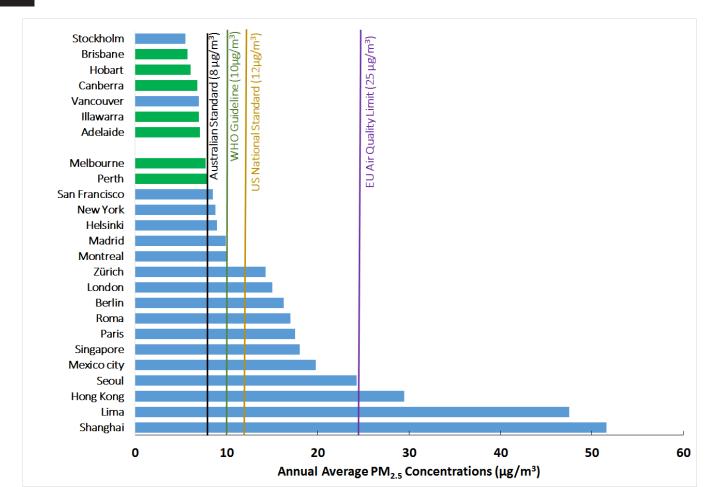


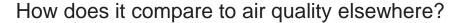




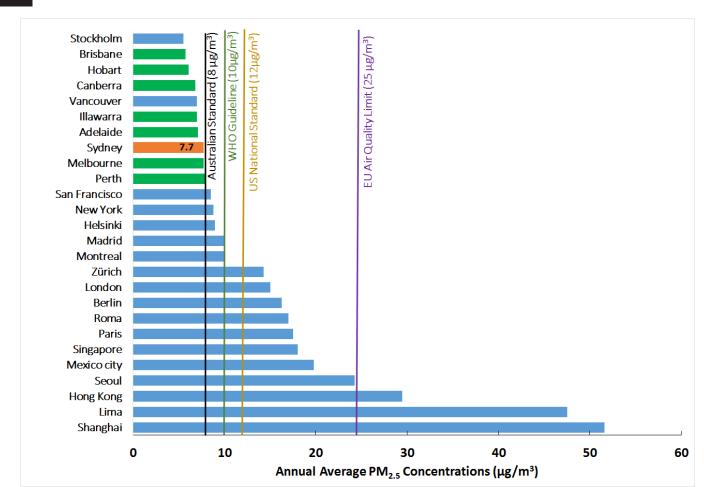






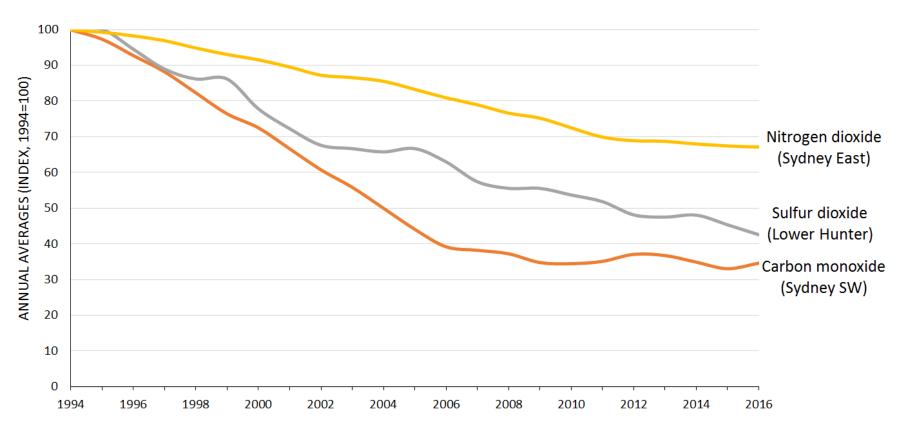




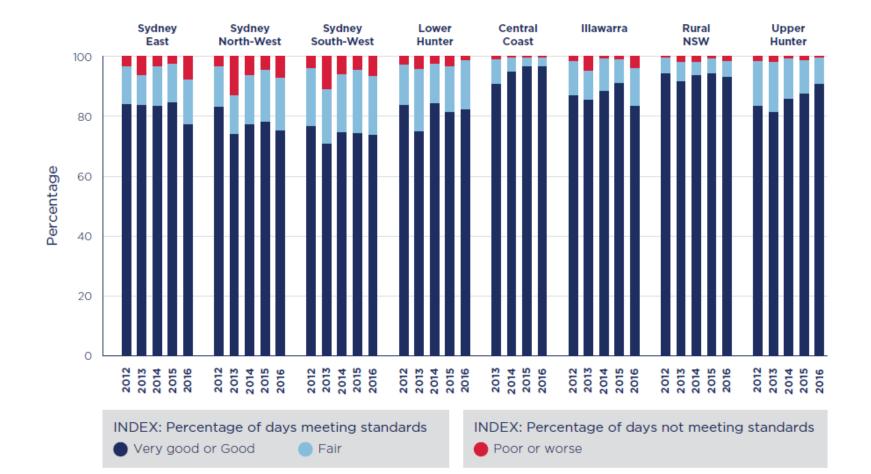




How has air quality changed in NSW in recent decades?

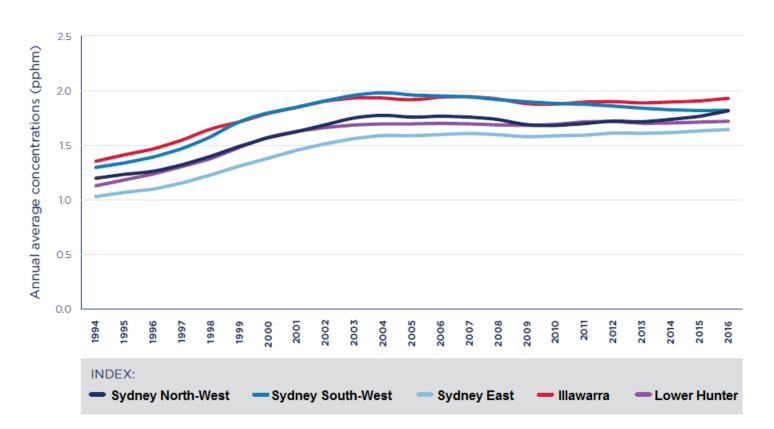






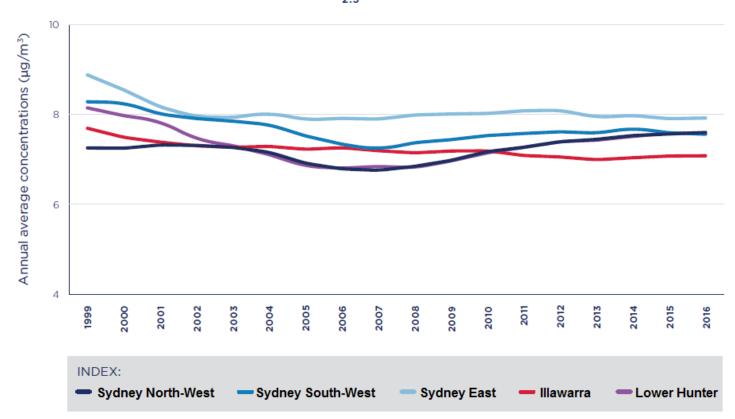


TRENDS IN ANNUAL AVERAGE OZONE LEVELS FOR 1994-2016 BY REGION



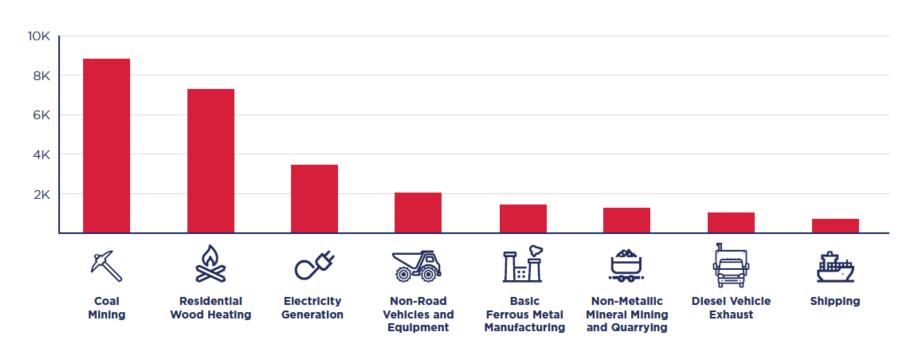


TRENDS IN ANNUAL AVERAGE PM, 5 LEVELS FOR 1994-2016 BY REGION





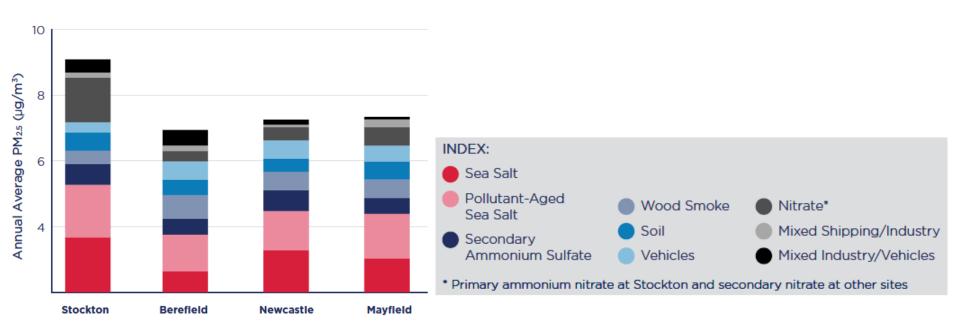
GMR Air Emissions Inventory – Top human-made sources of PM2.5 emissions in GMR (tonnes/year)



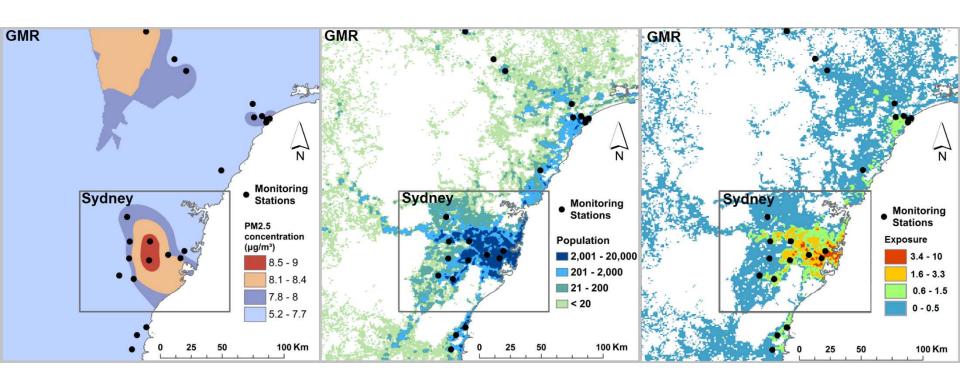


Lower Hunter Particle Characterisation Study

Source factors contributing to annual average PM2.5 concentrations



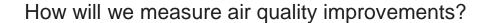




Annual Average PM_{2.5} (μg/m³)

Population (people/km²)

Exposure Index

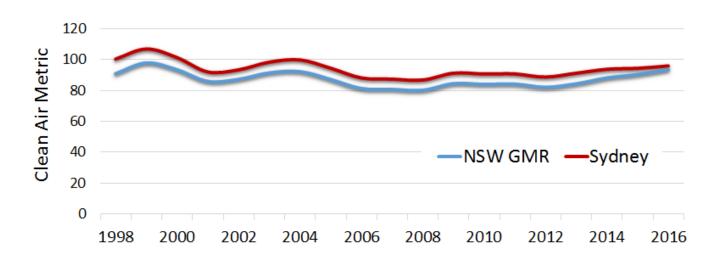




Clean Air Metric (CAM) - 2016

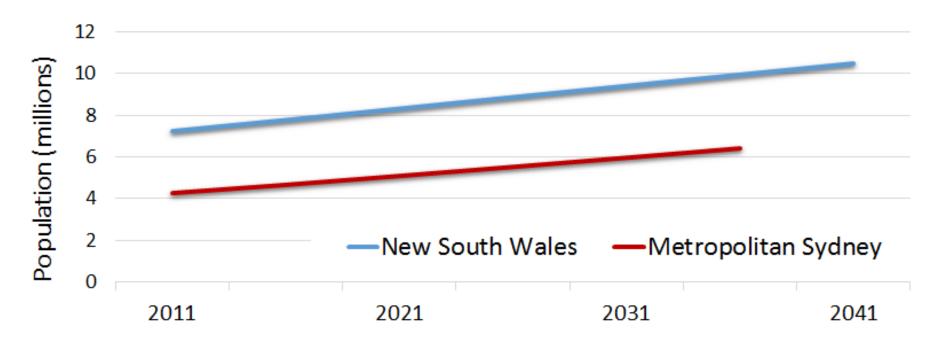
REGION	3-YEAR AVERAGE POPULATION	3-YEAR ROLLING AVERAGE, POPULATION-WEIGHTED POLLUTANT AQI				CAM
		PM ₁₀ INDEX	PM _{2.5}	NO ₂	SO ₂	0 /111
Sydney	4,606,160	70	96	29	4	96
GMR	5,760,220	69	94	28	4	94

Clean Air Metric (CAM) – Historical Trends



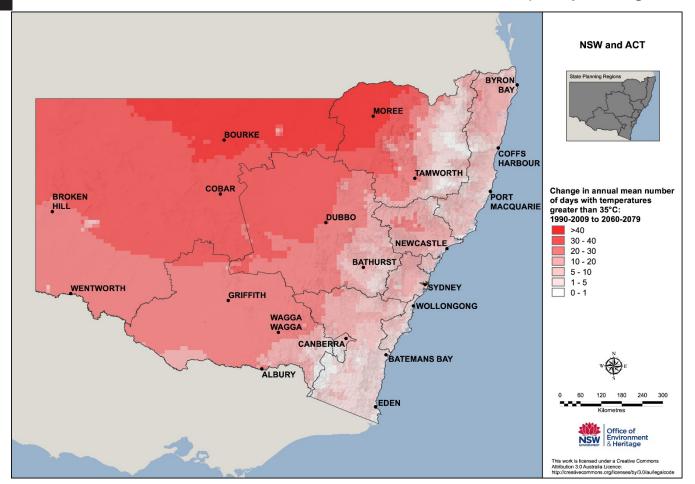


Population projections for NSW





How will air quality change in the future?





Delivering the science to enable better decision making for a healthy NSW

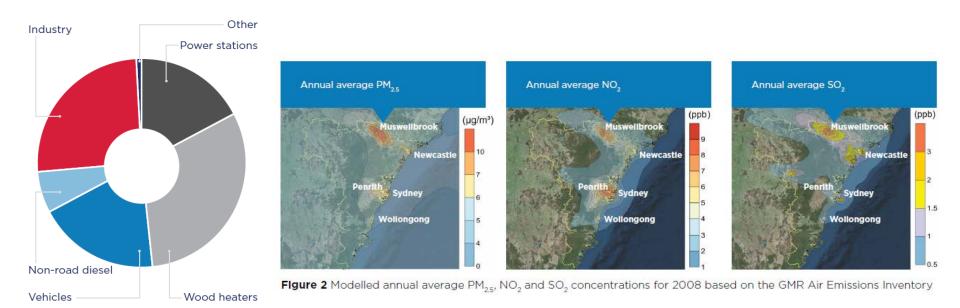


Figure 3 Major source contributions to predicted annual average PM_{25} (population-weighted) due to human-made sources for the Greater Sydney region



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