

Broader goal
(links to external/high level commitments)

Improved resilience of community and business to climate change, environmental hazards and risks
(OEH Corporate Plan and NSW Climate Change Policy Framework)

Improved air quality across NSW
(Clean Air for NSW Consultation Paper)

Strengthened air quality management to reduce air pollution and exposure in New South Wales
(National Clean Air Agreement)

End of program outcome
(4 years +)

Greater protection for the people of New South Wales from air pollution

Enhanced amenity and liveability outcomes for New South Wales

Enhanced evidence of air quality impacts enable improved decisions on environment and public health outcomes

Intermediate outcome
(2-4 years)

Communities use air quality information to take preventative action to minimise personal exposure

End users know how to use air quality information for risk assessments and cost benefit analyses

The community and policy investigators use air quality science information in decision and policy making

Immediate outcome
(annual reporting cycle)

End users are aware of the significance of local air quality issues

The community, government and business decision makers have access to the right information, at the right time and at the right scale

Enhanced stakeholder engagement and collaboration on air quality science and management

Outputs
products/services/deliverables

Advisory services and communications on air quality issues

AQMNs established and fully operational	Air quality data, information and reports	Air quality website as central data and information delivery platform	Air quality forecasting system for NSW	Automated air quality messaging system	Risk assessment on special incidents	Current population exposure, social and economic impacts of air pollution	Sources ranked by impact	Monitoring and assessment methods	Projected air quality and public health benefits of proposed interventions
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Activities
Key activities that will be completed

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| <ul style="list-style-type: none"> Establish and maintain NSW's air quality monitoring networks Undertake monitoring at hotspot road corridors Undertake auditing activities Data validation and interpretation Model and map air quality in NSW Undertake short-term air quality forecasting | <ul style="list-style-type: none"> Measure health impacts of air pollution on the NSW population Measure economic cost and social burden of air pollution on NSW Measure impacts of pollution on vegetation in NSW Analyse source contributions | <ul style="list-style-type: none"> Evaluate and model intervention scenarios Evaluate and model air quality-climate change interactions Build knowledge and understanding of clean air technologies |
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Activity categories

Monitor, map and forecast air pollution	Impacts of air pollution	Improved air quality
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Foundational capabilities

<p>Ambient monitoring</p> <ul style="list-style-type: none"> Routine network-based meteorology and air quality monitoring Tier 2 networks (DustWatch) Advanced measurement techniques Specialised monitoring for incidental emissions and hot-spots 	<p>Quality management</p> <ul style="list-style-type: none"> NATA accreditation Instrument calibrations Auditing Quality Management System 	<p>Data acquisition, storage and web-publishing</p> <ul style="list-style-type: none"> Database management systems, including in-house applications Web content management <p style="text-align: center;">Air quality forecasting framework</p>	<p>Data interpretation and advisory services</p> <ul style="list-style-type: none"> Data interpretation tools and platforms Periodic reporting Expert advice (e.g. air quality impact assessments, incident reporting) 	<p>Modelling</p> <ul style="list-style-type: none"> Meteorological models Chemical transport models Exposure risk and health improvement modelling Air emissions modelling 	<p>Leadership</p> <ul style="list-style-type: none"> Community engagement (Citizen Science) Guiding and collaborating on external programs Strategic delivery partnerships
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Program scope

Understand current air quality and its impact, how it has changed over time and is likely to change into the future