

DATA CENTRES

Our company

Zephyr Environmental (Zephyr), is a boutique environmental consulting practice specialising in air quality and carbon management. We aim to form enduring and trust-based relationships with our clients to help them solve their most challenging environmental problems.

Our decentralised and agile structure enables us to handle the most complex assignments while remaining small enough to prioritise excellence in delivery while minimising business disruption for our clients. Our value lies in de-risking projects and providing trusted expert advice.

Our core value is 'We are a breath of fresh air, to our clients and our people.' This is more than just a tagline; we strive to ensure that our clients have a significantly different, positive experience when working with us.



We strive to deliver practical, defensible advice that de-risks operations to ensure good environmental outcomes.

Services we provide:



Meteorological modelling



Air quality monitoring programs



Odour & dust management



Regional airshed management



Environmental & GHG audit / assurance



Air emissions management



Carbon mitigation & management



Data analysis & interpretation



Atmospheric dispersion modelling



Flagship Data Centre Projects



Hyperscale portfolio air emissions review, VIC

We are working across a global hyperscale cloud operator's Victorian estate: seven data centres on three campuses, some operating, others in construction or newly approved. At every facility we are validating generator fleets, exhaust configurations and EPA licensing requirements, modelling operating scenarios, assessing impacts at nearby sensitive receptors, and advising on alternative generator technologies and operational controls.

Independent reviews, NSW Guide for Large Emitters

We have completed six independent expert reviews of GHG assessments and mitigation strategies for hyperscale and multi-tenant developments and modifications across Sydney, each exceeding 25,000 tCO₂-e of scope 1 and 2 emissions per year and supporting a State Significant Development Application. A Category 2 (Lead) NGER auditor led every review.

Approvals audit & generator testing compliance, NSW

As independent air quality auditor, we assessed the site's approvals framework and the pathway for its future operation. Our follow-on advice tested two generator testing regimes against a 200 hour per year consent limit; both proved compliant.

Air quality impact assessment, SA

Our odour and dust impact assessment for a proposed data centre used atmospheric dispersion modelling to predict ground-level concentrations at sensitive receivers under the Environment Protection (Air Quality) Policy 2016 and SA EPA guidelines.

Generator modelling & testing strategy, NSW

We modelled standby diesel generator operations at a multi-tenant data centre campus and developed the annual generator maintenance and testing strategy that keeps the site within its consent limits.

If these case studies — or any of the other services we offer — sound like they could add value, please don't hesitate to reach out. Our team is always ready to discuss your goals, answer any questions, and explore how we can best support your success.

Get in touch with our team at:



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Zephyr Environmental



www.zephyrenviro.com