

POWER GENERATION

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.

A background image showing a series of high-voltage electrical transmission towers and power lines stretching across a landscape under a blue sky with scattered clouds.

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 Power Generation Projects



AQIA for Gas Turbine Power Stations

Air quality impact assessments for multiple proposed gas turbine power stations. Atmospheric dispersion modelling and turbulent plume rise impact assessments conducted to Civil Aviation Safety Authority requirements.

Emissions from Power Stations

Evaluation of the atmospheric emissions profile from coal fired power stations. Including establishing whether current regulatory constraints on emissions of sulphur dioxide could be amended through balancing emissions across multiple stack sources. Evaluations included emission quantification and atmospheric dispersion modelling.

Greenhouse Gas Audits on Power Stations

S74AA Reasonable Assurance audit completed under the National Greenhouse and Energy Reporting Scheme. Audit completed under ASAE 3410 / 3100 to confirm the accuracy of greenhouse gas emission estimation from three coal fired power stations.

Technical Review of Power Station, Vietnam

Technical review of Environmental Assessment documentation related to air quality and greenhouse gas for a proposed super-critical coal fired power station project to meet International Finance Corporation standards for technical assessment.

Wind Farm Air Quality Assessments

Multiple impact assessments including characterisation of existing air quality and meteorological conditions, review of sensitive receptors, construction dust risk assessment including provision of mitigation and management measures, and dispersion modelling.

Solar Farm GHG Assessments

Multiple greenhouse gas assessments for solar farms .



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