

SYNERGETICS

ENVIRONMENTAL ENGINEERING

Dave H. Collins

BE (Hons), PhD, FIE Aust, FAIE, CPEng, CIH, COH, MAIOH, RBP

Managing Director and Principal Environmental Engineer

Dave is Managing Director and Principal Environmental Engineer of Synergetics Pty Ltd (www.synergetics.net.au) with 30 years national and international engineering experience in government, university and R&D at operational and corporate levels. Dave is a world-wide specialist environmental engineering consultant in product development, design and construction roles. He has particular experience in high technology R&D and application of computer modelling to assess, develop and implement innovative energy efficient industrial and building ventilation solutions and has a number of patents to his name. He has considerable skill in project management, air quality measurement systems, risk assessment and exposure characterisation and control. He has applied these skills to processes and buildings in the automotive, manufacturing, construction and mining industry. He is sought out as a speaker in environmental innovation, and currently leads the teaching of renewable energy at undergraduate and postgraduate levels at Monash University.



Dave has served as a senior technical and policy advisor to senior levels of government and industry. He was the Commonwealth Government's representative and founding member of the National Environment Protection Measure (NEPM) Working Group and represented the Business Council of Australia and the Minerals Council of Australia's on the National Advisory Body on Wastes.

Dave served as Visiting Scientist in the Division of Building Construction and Engineering at CSIRO leading building ventilation R&D projects. Dave also served as an advisor to the Institution of Engineers for engineering competency standards, and was the Nominated Judge for both the Large Industry Category in the National Banksia Awards and the Victorian Premiers' Environmental Awards for several years.

He is a Board Certified Industrial and Occupational Hygienist in both the United States and in Australia and has served on a number of Standards Australia Committees and many national policy development and advisory roles. Dave is accredited as a Technical Assessor for National Association of Testing Authorities (NATA). He is a Registered Building Practitioner and a Fellow of the Institution of Engineers and a Fellow of the Australian Institute of Energy.

Most recently Dave refurbished The Green Spaces at 490 Spencer Street, Melbourne with the objective to create a positive energy building. This building is a founding member of the Melbourne City Council's 1200 Building initiative.

Dave's experiences has lead him to the view that low cost positive energy buildings is an achievable reality but requires a much greater level of innovation, not only in the design phase, but also during construction, commissioning and operation. His high-technology background in the power, automotive and mining industries brings a unique perspective to these challenges.