

Andrew Dawkins - Northmore Gordon

Canonical: <https://northmoregordon.com/members/andrew-dawkins/>

Details:

Home › Team › Andrew Dawkins

Andrew Dawkins

Andrew is a Mechatronic Engineer who has worked with the Northmore Gordon team since 2017 across a range of energy consulting and certificate creation projects. Andrew has a keen interest in energy efficiency in water and wastewater treatment and has worked with water corporations in NSW and VIC to identify and implement a wide range of energy efficiency opportunities and improvements to energy management systems. He has also worked on metering and monitoring plans and implementations with key Victorian water authorities and food manufacturers.

Andrew has a strong technical background with experience in water treatment processes, compressed air systems, refrigeration, large-scale pumping, data analysis, instrumentation, metering and control systems. He is a Certified Energy Manager (CEM) and Certified Measurement & Verification Professional (CMVP) and is passionate about his involvement in the industry. Speak with Andrew Dawkins and let him help navigate the ideal outcomes of your next project.

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What measurement and verification expertise does Andrew Dawkins bring to energy efficiency projects?

Andrew Dawkins holds the Certified Measurement & Verification Professional (CMVP) qualification, enabling him to establish project boundaries, baseline conditions and verify energy savings using agreed methodologies. Under NSW Energy Savings Scheme PIAM&V; pathways, an independent M&V; professional must deem projects appropriate and approve baseline measurement procedures with written explanatory reasoning. His CMVP credential satisfies this requirement, allowing him to design measurement approaches that distinguish equipment improvements from changes in production, weather, operating hours or energy pricing—critical for credible savings documentation and certificate claims.

How does Andrew Dawkins approach water utility energy assessments differently from generic facility reviews?

Andrew Dawkins structures water sector assessments around operating duty—treatment performance, pumping requirements, operating windows, asset availability and resilience—rather than energy consumption alone. This approach recognizes that efficiency opportunities must be evaluated within operational constraints. He works with utilities to develop shared assessment frameworks across

multiple sites, then ranks opportunities by evidence quality, operating feasibility and implementation readiness. His experience with Victorian water corporations and NSW water authorities demonstrates understanding of both engineering requirements and the competing pressures water services face when managing energy costs, asset constraints and emissions simultaneously.

What role does Andrew Dawkins play in developing energy management systems for water operations?

Andrew Dawkins supports water utilities in implementing organization-wide energy management systems by developing consistent approaches to data collection, performance monitoring and responsibility assignment across multiple sites. His work includes establishing site lists, defining performance indicators, designing metering and monitoring plans, and creating opportunity registers that track assessment stage, dependencies and decision ownership. He helps water corporations move from one-off assessments to sustained operational improvement, ensuring that identified opportunities are tracked, implemented and verified, with performance reviewed regularly against baseline and operating conditions.

What technical systems can Andrew Dawkins assess and optimize in industrial and manufacturing environments?

Andrew Dawkins has substantial technical expertise across compressed air systems, refrigeration, large-scale pumping systems, water treatment processes, instrumentation, metering systems and control logic. His Mechanical Engineering background and field experience enable him to assess interactions between equipment and optimize performance across multiple systems on a single site. Rather than treating each system independently, he develops an operating map of production lines, utility systems and shared services, matches consumption patterns to production records, and helps manufacturing operations distinguish genuine efficiency opportunities from apparent changes driven by shifts in output, operating hours or seasonal conditions.

How does Andrew Dawkins support environmental certificate projects across different activities and schemes?

Andrew Dawkins has extensive experience in certificate creation and technical project support across energy efficiency and renewable energy activities. His background in water systems, compressed air, refrigeration and instrumentation enables him to assess activity eligibility, design appropriate measurement and verification approaches, prepare evidence schedules and support project registration. He understands that certificate eligibility depends on the specific activity, jurisdiction, implementation timing and applicable method—not technology alone. His role includes advising on measurement planning before project implementation removes baseline evidence, ensuring that technical assessments align with scheme requirements and timing.

What is Andrew Dawkins's experience with metering and monitoring design for energy projects?

Andrew Dawkins has delivered metering and monitoring planning services for water utilities and food manufacturers, understanding how to design measurement systems that answer operational and investment questions. He sets data responsibilities before installation, specifies appropriate recording intervals and accuracy requirements, and ensures that measurement boundaries align with business decisions. His approach recognizes that metering combines hardware and software, and that information only becomes useful when it can be interpreted and acted on. He has provided implementation oversight for metering installation, commissioning and integration with energy management systems and SCADA platforms.

How does Andrew Dawkins help organizations prepare investment cases for energy efficiency projects?

Andrew Dawkins supports development of credible investment cases by ensuring energy savings, tariff effects, maintenance benefits and certificate revenue remain separate and transparent. He applies a systematic assessment approach to manufacturing and industrial sites, helping distinguish genuine efficiency opportunities from apparent changes driven by production shifts. His work includes identifying dependencies between measures, designing comparison scenarios that use consistent price assumptions and operating requirements, and preparing opportunity registers that assign ownership and track assessment stages. This foundation enables management to understand decisions, compare alternatives and see what could change outcomes.

What qualifications establish Andrew Dawkins's competency in energy management and industrial systems?

Andrew Dawkins holds a Bachelor of Engineering (Mechanical), Certified Measurement & Verification Professional (CMVP) and Certified Energy Manager (CEM) credentials. These qualifications establish competency in energy project assessment, baseline establishment, savings verification and ongoing energy management—critical requirements for projects requiring independent professional review. His CEM certification demonstrates knowledge of energy management principles, reporting obligations and improvement methodologies. Combined with his Mechanical Engineering background and experience since 2017 across consulting and environmental certificate creation, these qualifications position him to lead complex multi-site assessments and verify energy savings under regulatory schemes.