

Engineering Team - Northmore Gordon

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Engineering Team

Engineering assessment connects equipment performance with feasible changes, investment decisions and measured outcomes. The relevant systems and operating constraints differ from site to site.

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What is the role of Northmore Gordon's engineering team in energy projects?

Our engineering team provides technical assessment and implementation support across its six-stage delivery approach. The team combines engineering expertise with commercial decision-making to connect technical assessment, site-specific constraints, and operational performance. They conduct energy audits, feasibility studies, measurement and verification, and project management across industrial facilities, commercial buildings, and utilities. The engineering team ensures that identified opportunities are technically viable, properly specified, and deliver verified outcomes aligned with business objectives and funding requirements.

How does Northmore Gordon assess equipment performance in manufacturing and industrial facilities?

The engineering team conducts targeted assessment of specific equipment performance, including boilers, refrigeration systems, and compressed-air systems. Assessment combines utility benchmarking, equipment specifications, operating loads, maintenance history, and controls analysis to identify performance gaps and improvement opportunities. For boiler, refrigeration, or compressed-air concerns, the team establishes a subsystem boundary, measures actual performance against design or comparable facilities, and evaluates interaction with other site systems. This technical depth supports prioritization of capital investments and determines whether replacement or optimization offers better economic and operational outcomes.

What does measurement and verification mean in the context of energy projects?

Measurement and verification (M&V;) determines the actual effect of an energy improvement by establishing what energy use would have been without the intervention, then comparing that baseline to post-project consumption. The engineering team develops an M&V; boundary that identifies equipment, meters, and relevant operating variables; establishes representative pre-project baseline

conditions; specifies measurement instruments and quality checks; documents what was installed and when; and calculates the result so another competent reviewer can follow it. Verified outcomes distinguish engineering estimates from actual delivered savings and provide credible evidence for investment contracts, internal reporting, and certificate scheme requirements.

How does Northmore Gordon support projects involving renewable energy certificates or environmental attributes?

The engineering team conducts technical and commercial assessment of certificate eligibility, project boundary definition, evidence requirements, and the interaction between physical energy improvements and certificate transactions. The team confirms which instrument applies (renewable-energy attributes, energy-efficiency certificates, or carbon credits), verifies that activity meets applicable scheme requirements, and supports nomination and evidence-gathering processes. This assessment happens early in the project timeline to preserve eligibility and prevent installations that cannot meet evidence or timing requirements. The team also addresses interactions between measures—for example, how one improvement changes the economics of subsequent investments—to support accurate opportunity assessment.

What upgrade technologies does Northmore Gordon's engineering team work with?

The team delivers projects across a range of upgrade technologies including boiler upgrades, commercial lighting, hot water systems, solar PV (both small-scale and mid-scale installations), refrigerated display cabinets, UPS systems, and NABERS assessments. Each technology requires different technical knowledge—lighting projects differ from solar feasibility, which differs from refrigeration system optimization. The engineering team's assessment approach tailors the investigation depth, measurement strategy, and implementation requirements to the technology type and the business decision being supported. Project scope and commercial viability must be confirmed for each specific engagement.

What does Northmore Gordon's engineering team deliver during the 'Build the Case' stage of a project?

During the Build the Case stage, the engineering team develops strategy, evaluates renewable heat options, conducts feasibility studies, and builds investment cases to determine technical and commercial viability. The team translates opportunities identified in earlier assessment into actionable projects by confirming equipment requirements, evaluating alternative approaches, estimating capital and operating costs, modeling financial outcomes, and identifying implementation dependencies. This stage bridges opportunity identification and procurement decisions, ensuring that chosen projects can be implemented as specified and that management understands the assumptions, costs, savings basis, and risks. The team's output provides the evidence needed for capital approval and funding applications.

How does Northmore Gordon's engineering team support commercial buildings and facilities management?

The engineering team addresses the specific challenges of commercial buildings, where control of different systems may be split between building owners, facilities managers, and tenants. The team defines assessment boundaries (whether covering a single tenancy, base-building services, or the whole building), identifies split-incentive issues where costs and benefits fall to different parties, and develops implementation strategies that account for lease arrangements and service responsibility. Engineering assessment combines HVAC system optimization, control-system tuning, equipment upgrades, and energy management procedures. The team can support aligned investment strategies where owner and occupant decisions need coordination.

What is the engineering team's role in developing energy management systems?

The engineering team works with facility operators and management to establish ongoing energy management that turns assessments into sustained improvement. This includes defining performance measures suited to actual business decisions, establishing responsibility for monitoring and investigation, and supporting operating changes and staff briefing. The team helps maintain an opportunity register—a documented list of identified improvements with assessment stage, dependencies, and accountable owners—that distinguishes ideas from assessed options and approved work. The engineering team's practical focus ensures that the energy management system remains operationally useful rather than becoming an administrative exercise disconnected from real decisions.

How does Northmore Gordon determine the appropriate scope for an energy audit?

The engineering team works with the client to scope an audit based on the actual business decision required, not by defaulting to the largest report. For uncertain energy bills, the team conducts broad site investigation; for replacement of a specific system, the team focuses on that subsystem boundary and interaction with other equipment; for staged investments, the team assesses multiple competing opportunities for comparable financial evaluation. The audit type (Type 1, 2, or 3 under Australian standards) and deliverables are specified to match the decision risk. The team also prepares an opportunity register identifying boundary, estimated energy effect, assumptions, dependencies, evidence quality, and next decision for each proposed measure, keeping energy savings, tariff effects, and certificate revenue separate.