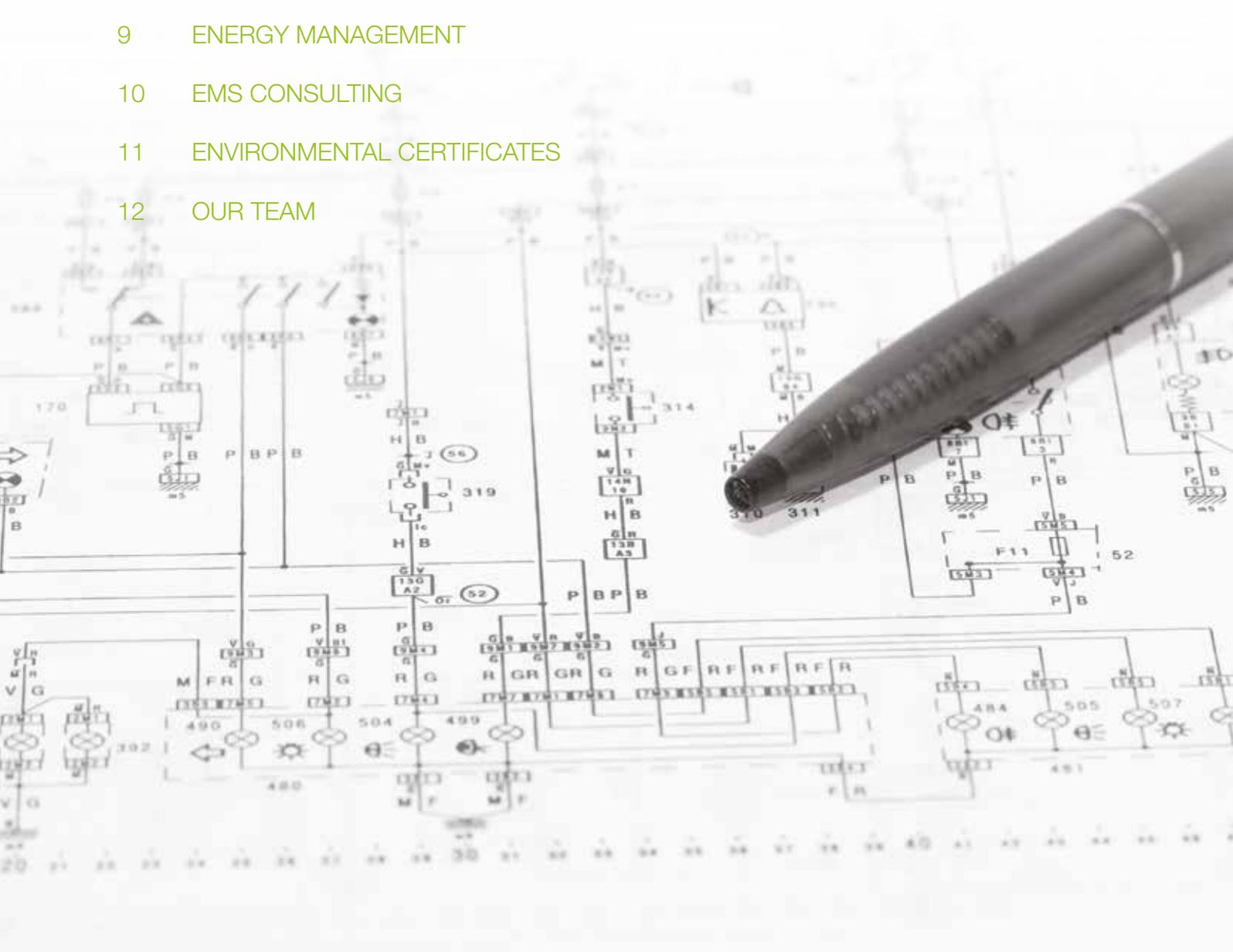




ENERGY & MANAGEMENT
SERVICES

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OUR AIM

OUR VISION IS TO PROVIDE HIGH QUALITY, PROFESSIONAL ENERGY ADVICE TO OUR CLIENTS. ENERGY AND MANAGEMENT SERVICES ASSIST BUSINESSES TO SAVE MONEY, IMPROVE ENERGY PERFORMANCE, QUANTIFY EMISSIONS AND EVALUATE EFFICIENCY

PROFILE

Energy and Management Services (EMS) is an expert consultancy specialising in providing professional energy advice. We have a broad client base ranging from commercial and industrial clients, Government, Local Government, agribusiness, mines, as well as small/medium enterprises. EMS provides support to these businesses in their procurement and energy management processes.

Since EMS was established in 1996 it has grown from a single operator to employing a wide range of specialist staff across many disciplines. This expertise ranges from engineering (electrical, mechanical, marine, chemical and process) to environmental (science and management) as well as scientific, business and accounting. This is essential to EMS as it increases efficiency, innovation and capacity and means that most projects can remain 'in house'.

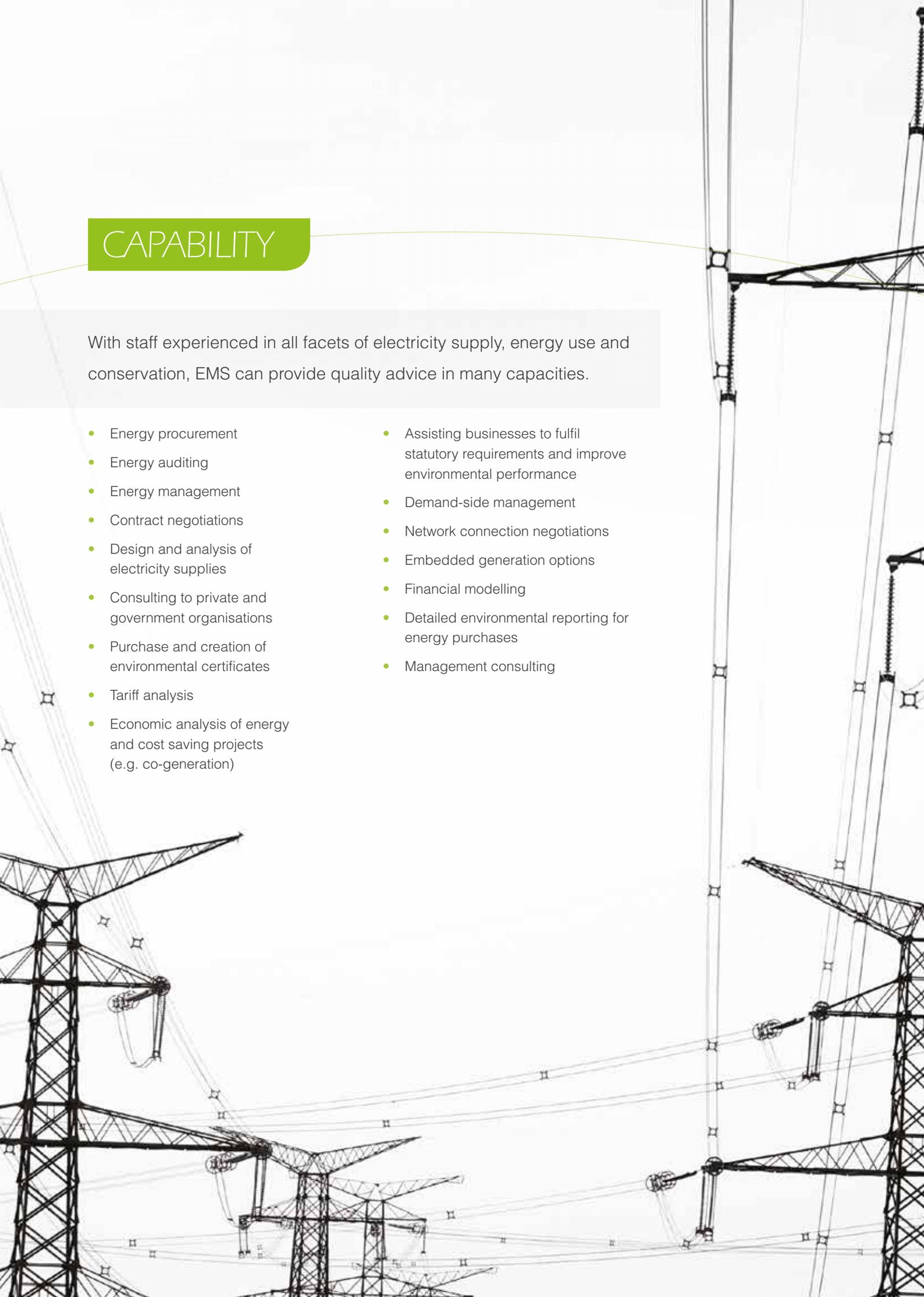
Now a vibrant consultancy of experienced staff, EMS has strong associations with a number of other companies to facilitate larger projects.

Further to this, EMS has a trusted and skilled network of high-quality staff in the industry that can be called upon if restricted in resources or time.

This has allowed EMS to progress to becoming a very reputable leader in its field and has secured clients with a great deal of corporate influence.

Founded in the Central Western region of NSW, EMS relocated the business to Lake Macquarie in 2003. From a group of clients in regional NSW the business has expanded to include clients across Australia.

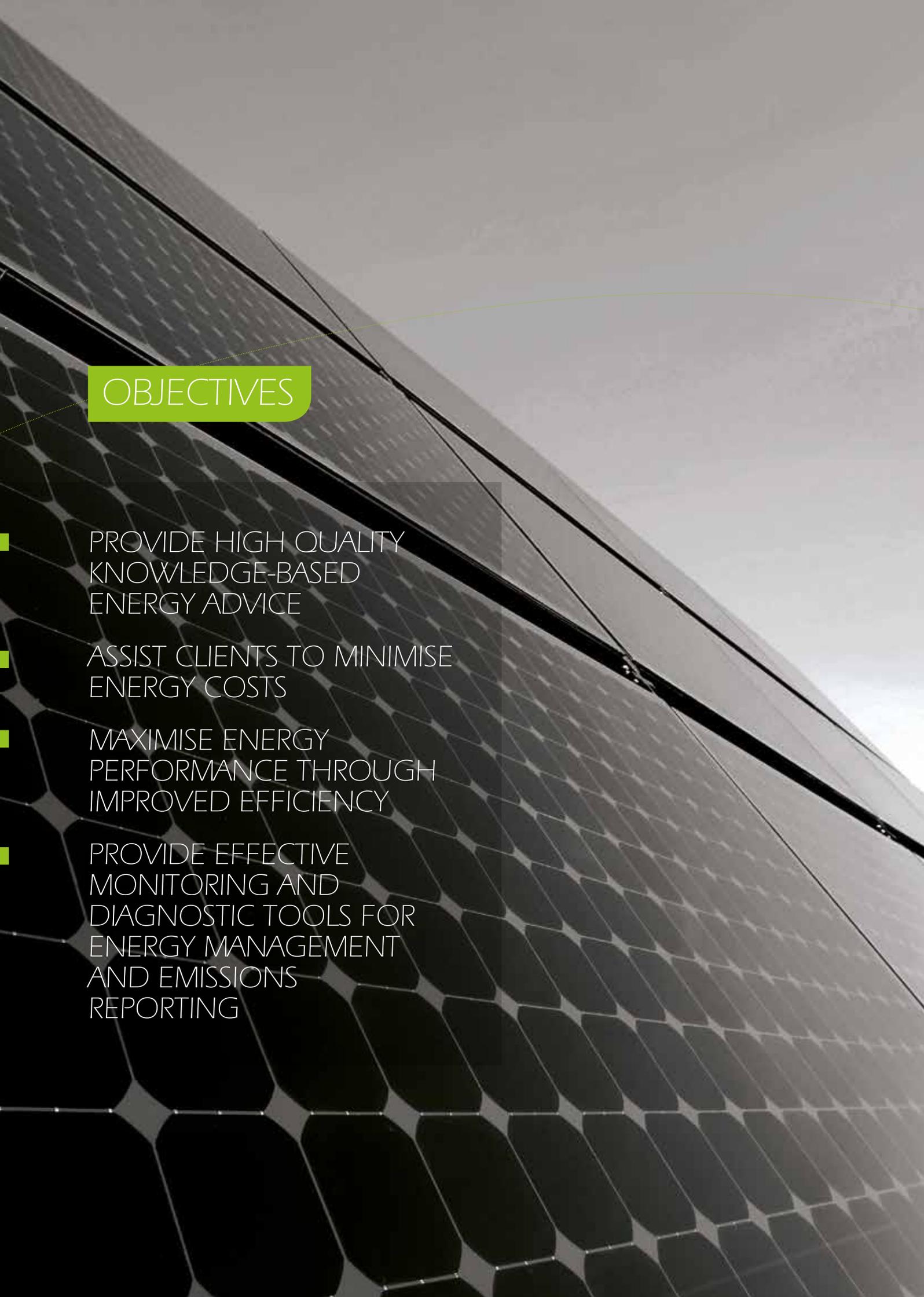




CAPABILITY

With staff experienced in all facets of electricity supply, energy use and conservation, EMS can provide quality advice in many capacities.

- Energy procurement
- Energy auditing
- Energy management
- Contract negotiations
- Design and analysis of electricity supplies
- Consulting to private and government organisations
- Purchase and creation of environmental certificates
- Tariff analysis
- Economic analysis of energy and cost saving projects (e.g. co-generation)
- Assisting businesses to fulfil statutory requirements and improve environmental performance
- Demand-side management
- Network connection negotiations
- Embedded generation options
- Financial modelling
- Detailed environmental reporting for energy purchases
- Management consulting



OBJECTIVES

- PROVIDE HIGH QUALITY KNOWLEDGE-BASED ENERGY ADVICE

- ASSIST CLIENTS TO MINIMISE ENERGY COSTS

- MAXIMISE ENERGY PERFORMANCE THROUGH IMPROVED EFFICIENCY

- PROVIDE EFFECTIVE MONITORING AND DIAGNOSTIC TOOLS FOR ENERGY MANAGEMENT AND EMISSIONS REPORTING

ENERGY AUDITING

EMS understands the duty of our clients to comply with statutory requirements, adhere to their own environmental standards and to seek opportunities to improve economic performance by reducing energy use and costs.

Since the introduction of the various State and Commonwealth energy efficiency schemes, our experience has allowed EMS to become a well-respected consultancy performing energy assessments and detailed technical reviews as part of Government driven programs. Examples include NSW Energy Savings Action Plan (ESAP), Sustainability Advantage – Energy Saver, Energy Efficiency for Small Business Program (EESBP) and Energy Efficiency Opportunities (EEO).

Our audit staff have extensive energy and environmental expertise coupled with a wealth of practical industrial and commercial experience. This proficiency has allowed EMS to undertake audits for corporations with multi-million dollar annual electricity spends including industrial processors, mines, abattoirs and manufacturers down to small and medium enterprises such as offices, restaurants, workshops and hairdressers. EMS has facilitated these businesses to improve energy performance, quantify emissions and evaluate efficiency of specific assets and processes.

Client Examples

Under the EEO Program, EMS performed audits including:

- Manildra Group for Honan Holdings (Manildra Energy, Shoalhaven Starches and Manildra Grain Company)
- George Weston Foods

Under the NSW ESAP, EMS performed audits including:

- CSA Mine (copper ore) at Cobar
- Manildra Flour (wheat mill) at Manildra
- Manildra Energy (ethanol plant) and Shoalhaven Starches (starch and glucose products) at Bomaderry

Under the Energy Saver program, EMS performed audits including:

- Clarendon Hotel
- Auscott
- Earlyrise Baking

Under the EESBP, EMS performed over 600 assessments including:

- Morisset Multipurpose Centre
- Gloria Jeans at Jesmond, The Junction and Hamilton
- Piggotts Pharmacy at New Lambton and Hamilton South
- Many more with savings of up to 45% were realised in some cases



ENERGY PROCUREMENT

EMS has highly experienced staff with extensive knowledge and a range of contacts in the electricity and broader energy industry.

With access to the latest industry information, EMS is able to conduct a thorough analysis of market trends and assist clients to source competitive energy contracts that address their long-term procurement needs. EMS also monitors pricing mechanisms for environmental certificate purchases to offer maximum opportunity for clients to benefit from any chosen energy procurement strategy.

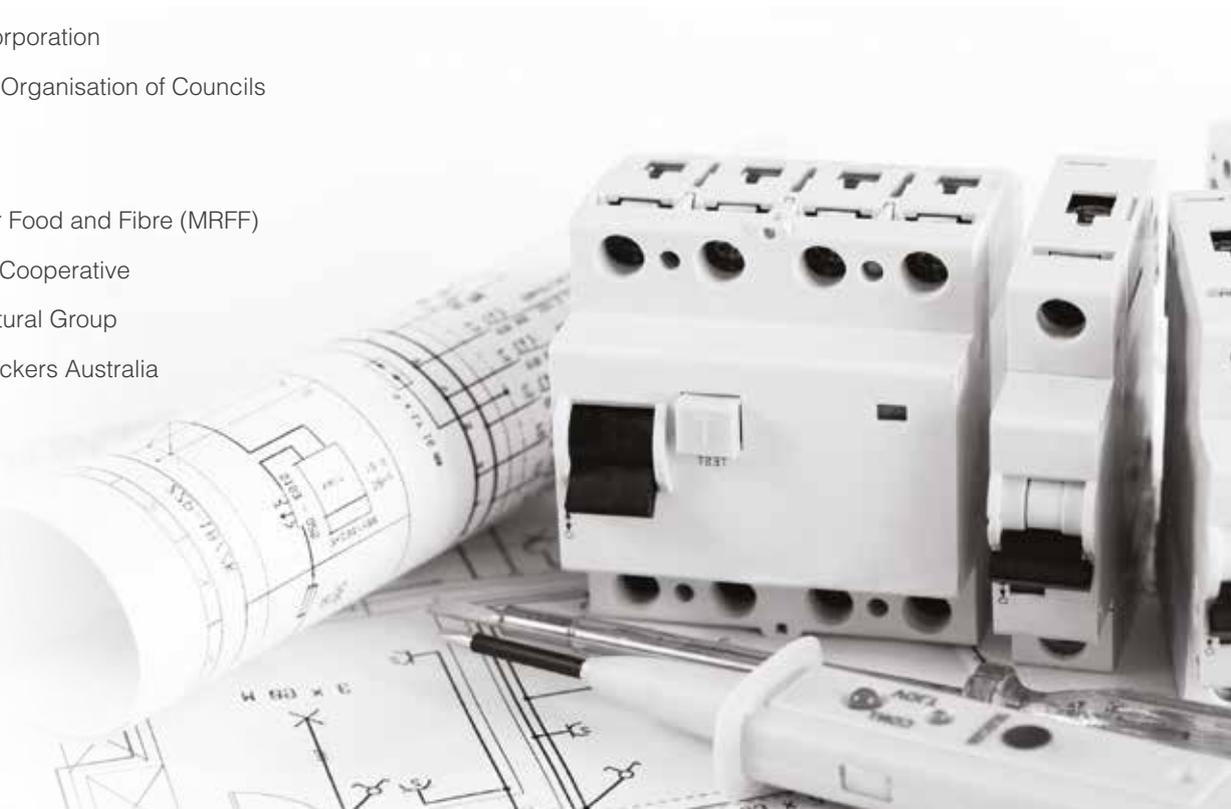
EMS understands that a successful contract is not just about the price but should encompass a holistic approach to energy management and application. Having developed specific analytical Contract Pricing Models for evaluation of the market, EMS utilise its extensive network to provide superior results for their clients.

Client examples

- Cobar Management
- Peak Gold Mine
- Manildra Group
- Fletcher International Exports
- Thomas Foods International
- Hunter Water Corporation
- Orana Regional Organisation of Councils (OROC)
- MSM Milling
- Macquarie River Food and Fibre (MRFF)
- Northern Meats Cooperative
- Twynam Agricultural Group
- Nippon Meat Packers Australia
- Woods Group

Our Capabilities

- Contract negotiations
- Network connection negotiations
- Market modelling
- Environmental certificates



ENERGY MANAGEMENT

EMS has comprehensive experience in all aspects of energy advice. Staff recognise that the first step in assisting clients to manage energy is through education.

Through knowledge and instruction EMS aids clients to understand electricity billing and the billing process. EMS helps clients to understand how much energy is used, where it is used and how to manage it effectively. This is assisted by the use of energy management software like E21 EnergyPlus.

E21 EnergyPlus enables its users to verify their electricity accounts in the competitive electricity market and track and manage energy consumption whilst identifying billing errors. It also generates a range of reports and graphs which make detecting any irregularities in the client's electricity bills simple. The software assists its users in achieving fundamental business and environmental goals such as reducing energy consumption, maintaining cost control and improving energy and emissions performance.

Client Examples

- Fletcher International Exports
- Hunter Water Corporation
- Cobar Management
- Peak Gold
- Twynam Agricultural Group
- Cumulus Wines
- MSM Milling
- Thomas Foods International
- Over 25 Councils across NSW

Our Capabilities

- Management consulting
- Tariff analysis
- Economic modelling
- Economic analysis of potential energy and cost saving projects (e.g. co-generation)
- Statutory reporting
- Demand management
- Managing energy consumption
- Verifying electricity accounts and identifying bill errors
- Power Factor Analysis



EMS CONSULTING

EMS staff regularly consult to private consumers and Government Departments and have the competence and experience required for high quality delivery of all necessary components of energy related matters. Personnel have a combined experience in the electricity distribution industry of nearly 90 years encompassing both urban and rural networks.

EMS Consulting is involved in every aspect of dealings between clients and energy companies and has also acted in a technical advisory role for regulatory bodies.

Extensive experience, insight and competence are able to be given from both sides of the market divide. Staff have broad knowledge of the practices and requirements of Distribution Network Service Providers, as well as experience of the economic impacts and responses of the marketplace to network pricing determinations.

Client examples

- Since early 2008, EMS Consulting has acted in a technical advisory role to the Australian Energy Regulator for advice of service classifications, asset classes and asset lives, equipment ratings, operating costs, deliverability of capital works and other specific items within DNSP regulatory proposals
- EMS Consulting has been the peer-review consultant for the 2009-14 pricing reset for NSW and ACT electricity DNSPs and again for the 2010-15 pricing reset for QLD and SA DNSPs

Our Capabilities

- Technical advice on service classifications, asset classes and asset lives
- Advice on equipment ratings, operating costs, deliverability of capital works
- Peer review for pricing reset
- Negotiating and arranging network connections
- Tariff analysis
- Retail contract analysis
- Economic evaluations of energy and/or cost saving projects
- Cost minimisation through demand management in response to network pricing issues



ENVIRONMENTAL CERTIFICATES

The Energy Savings Scheme (ESS) creates a financial incentive for clients undertaking projects which reduce electricity consumption.

EMS has gained IPART approval as an Accredited Certificate Provider (ACP) for the NSW ESS. It provides new opportunities for energy saving equipment and technologies to be provided to businesses and households.

Since the beginning of the scheme in July 2009, ESS participants have benefited from lower electricity bills through implementing energy savings activities and have gained income from selling Energy Savings Certificates (ESC'S) through this market-based mechanism. The scheme is legislated to continue until 2020 or until a National Scheme is introduced.

How the ESS works?

- Organisations identify energy savings projects that they can implement. These projects must reduce electricity consumption by installing, improving or replacing energy savings equipment
- ACP's implement their energy savings projects and create certificates based on the energy savings (each certificate is equivalent to one tonne of CO₂-e emissions avoided)
- The ACP's sell their certificates, usually to Liable Entities. Liable Entities are mainly electricity retailers
- Liable Entities surrender ESC's to meet their targets as required by legislation

Recognised Energy Savings Activities (RESA's)

RESAs are specific activities implemented by an ACP that increase the efficiency of electricity consumption or reduce electricity consumption, by:

- Modifying equipment or its use
- Replacing equipment
- Installing new high efficiency equipment; and/or
- Removing equipment and reducing electricity consumption.



OUR TEAM

The team at EMS

Peter Halyburton

Chairman

- Master of Business Administration, University of Newcastle
- Bachelor of Science (Technology) in Electrical Engineering, University of Newcastle
- Fellow, Institution of Engineers Australia
- Fellow, Australian Institute of Energy

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- Graduate Diploma of Management, Capricornia Institute (UCQ)
- Fellow, Institution of Engineers Australia

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Research Officer

- Bachelor of Mechatronics, University of Newcastle

Louise Tassone

Administrative Support Officer

- Certificate 3 in Tourism & Retail Management

Bill Nicolle

Audit Consultant

- Bachelor of Science (Mechanical Engineering), University of Newcastle
- Graduate Diploma in Education, Newcastle CAE
- Marine Technology Certificate, Newcastle Technical College



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