

Sectors - Northmore Gordon

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NSW & VIC Boiler Rebates REC Registration (I-RECs & LGCs) Register renewable assets for I-RECs and LGCs Trade RECs & Carbon with us Trade Local & International Environmental Attribute Certificates moREnewable100 (RECs & Offsets) Reach Global Sustainability Goals with Certificates and Offsets Deemed Certificates (VEU & ESS) NSW & VIC Rebates Global Certificates Environmental Attribute Certificates Australian Programs Australian EAC Programs Case Studies Sectors Articles Team More Close More Open More Northmore Gordon Learn more about Northmore Gordon with the latest news and insights, were to find us, and the extensive terminology used in emissions reductions About Us Who we are & what we do in energy efficiency & decarbonization. Locations Find our offices near you. Contact Us Get in touch with our team. Careers Join our team making a sustainability difference Articles Learn about energy efficiency & carbon reduction. Latest News Stay informed on industry developments. Government Updates Track policy changes impacting your energy use. Accreditations See our certifications for trusted service. Glossary Define key terms in emissions reduction. Increase profit margins through smart projects. We provide energy efficiency, bioenergy and solar advice to industrial and large commercial companies. Our goal is your goal: to see energy costs come down and projects implemented, whether they are behavioural changes or complex capital works projects. In all cases, we work alongside you through the entire process, from high level energy management diagnostics to final measurement and verification of energy savings. Last Updated: 05/05/26

Animal Processing Chemical Processing Commercial Buildings Food & Beverage Animal Processing Key Insights: Animal processing plants depend heavily on utility services such as steam, hot water, chilled water, glycol, ammonia refrigeration, compressed air, and lighting. Process quality needs are critical. A lot of heat required is relatively low-grade making waste heat utilisation possible, and is suited to cogeneration The efficiency of key utility services is not often monitored and is under-performing, particularly refrigeration It is rare that facilities understand how their energy use correlates to production or weather data Wastewater can be used to produce biogas for hot water or cogeneration, to supplement energy needs and meet carbon reduction targets Solar PV is under-utilised in the sector Our Experience: Energy utility costs can be reduced by up to 30% whilst ensuring product quality outcomes are maintained. Over 10 energy audits of animal processing facilities Solar PV support Multiple boiler and cogeneration studies Biomass boiler specification and tendering Typical Services: Energy audits & Sankey diagrams Business cases for energy cost reductions Feasibility studies for cogeneration, boilers, compressed air, refrigeration, biomass boilers, heat recovery, and steam systems. Measurement and Verification for creation of energy savings certificates in NSW and VIC. Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig View case study

Chemical Processing Key Insights: The sector is challenged by fluctuating chemical prices and rising input costs, and the payback for energy efficiency initiatives needs to be short Third-party maintenance contractors are often not incentivised to be proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often operating sub-optimally Process optimisation offers the cheapest and most significant energy reduction potential The sector is lagging in the setting of carbon reduction targets Waste heat opportunities are under-utilised Our Experience: NG personnel have worked in chemical processes including ammonium nitrate, petro-chemical NG personnel have consulted on energy efficiency in petro-chemicals, plastics, etc. Typical Services: Energy audits & Sankey diagrams Feasibility studies for heat recovery, pump upgrades, KPIs, process improvements Pinch analysis Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates. Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig

Commercial Buildings Key Insights: Energy use patterns in commercial buildings can vary widely depending on the type of facility (e.g. hospitals, prisons, universities, office buildings, libraries, car parks and sports facilities). Commercial buildings are often long-lived and strategic long-term energy reduction projects can be favourably looked upon. There can be hundreds of small facilities under management and tracking energy use data can be difficult, yet the cumulative energy spend is significant External facility managers are not always proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often

operating sub-optimally Solar PV is making strong in-roads yet still under-utilised in the sector Large energy users in the sector are generally aquatic centres, water, large sports arenas, hospitals/health centres, and prisons The sector is increasing attention to the setting of carbon reduction targets Our Experience: >50 energy audits of buildings >50 cogeneration studies >10 building simulations 3,000,000 energy efficiency certificates created from lighting upgrades in commercial buildings Typical Services: Energy audits (lighting, HVAC, whole building) & Sankey diagrams Building simulation modelling Feasibility studies for upgrades to cogeneration, lighting, HVAC, Building Management System Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates. Certificates & ratings (NABERS, BEECs, Greenstar) Grant Raja Principal Consultant Grant Raja is an economist with over 20+ years of experience in data, strategy, reporting and emissions programs. Grant aims to help commercial and industrial clients find and develop a clear pathway to transform and take advantage of the opportunities to decarbonise and digitise. Contact Grant View case study Food & Beverage Key Insights: Food & beverage plants depend heavily on utility services such as steam, hot water, chilled water, glycol, ammonia refrigeration, compressed air, and lighting. Process quality needs are critical. A lot of heat required is relatively low-grade making waste heat utilisation possible The efficiency of key utility services is not often monitored It is rare that facilities understand how their energy use correlates to production or weather data Food and beverage plants can utilise locally available renewable bioenergy to help supplement energy needs and meet carbon reduction targets Solar PV is under-utilised in the sector Our Experience: Energy utility costs can be reduced by up to 30% whilst ensuring product quality outcomes are maintained Our experience covers dairy, softdrink, brewing, snackfoods, chocolate, cheese/dairy, milk processing, vegetable processing NG personnel have worked in large food & beverage companies Typical Services: Energy audits & Sankey diagrams Business cases for energy cost reductions Feasibility studies for cogen, boiler upgrades, compressed air improvements, refrigeration upgrades, biomass boilers, heat recovery, and steam system improvements. Measurement and Verification for creation of energy savings and carbon certificates. Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig View case study Manufacturing Mining Oil & Gas Pharmaceutical & Health Products Manufacturing Key Insights: Manufacturing plants depend heavily on utility services such as steam, hot water, chilled water, glycol, ammonia refrigeration, compressed air, hydraulics, and lighting. Process quality needs are critical and there can often be a central process that consumes a majority of energy use. Many manufacturers don't closely track how energy is influenced by external factors and the process Saving energy doesn't mean a compromise in line speed or product quality Manufacturing plants can utilise locally available bioenergy to help supplement energy needs Bioenergy is one of the few low-carbon alternatives to natural gas for meeting high temperature process needs Heat recovery is under-utilised and can help reduce rising gas costs Solar PV is under-utilised Our Experience: Worked with leading manufacturers in multiple sectors covering sites with energy spend from AUD 1-70million per annum Multi-year contracts as energy management partner (Virtual Energy Manager) Typical Services: Energy audits (steam, electricity, transport) & Sankey diagrams Plant energy system modelling and simulations (theoretical minimum energy use, HOMER modelling for micro-grids, Pinch Analysis) Feasibility studies for cogen, boiler upgrades, compressed air improvements, refrigeration upgrades, biomass boilers, heat recovery, and steam system improvements. Detailed assessment and monitoring (compressed air leak audit and report, real power, pressure, temperature, refrigeration COP, fan efficiency) Business cases for energy cost reductions Energy management diagnostics similar to ISO50001 gap analysis Measurement and Verification for creation of energy savings or carbon certificates Angela Clarke Principal Consultant Angela has 30+ years experience and has worked in a variety of roles across the steel and chemical industries including operations management, and process design and improvement. Contact Angela View case study Mining Key Insights: The remoteness of mining operations can result in high energy costs, High staff turnover on sites can be a barrier to building a long term program for energy management. Comminution can use >50% of electricity Transport fuels can be 50% the overall energy input cost for a mining operation A limited mine life puts pressure on energy efficiency projects to keep payback short Renewable fuels are still

expensive and are currently limited by feedstock availability Hydrogen (renewably sourced) or ethanol from ligno-cellulosic feedstock are potential long-term renewable alternatives Data from engine management or vehicle tracking systems is under-utilised Tyre wear, fuel use and O&M; costs can be all reduced through better loading practices and speed management of mining haul trucks Energy efficiency should be part of long term fleet optimisation procedures Our Experience: Energy utility costs can be significantly reduced whilst ensuring quality outcomes are still met by looking at diesel & electricity efficiency, renewable energy and procurement processes Solar PV is under-utilised in the sector We have personnel who have worked with mining companies over the past 25 years to map the energy flows and energy efficiency in gold, nickel, coal, and mineral sands sectors, including electricity, natural gas, and diesel use for both power and transport. We have worked with some of the largest miners including Newcrest, Xstrata, St Barbara, Iluka Resources, and Northgate Minerals Fuel use in a mine could be reduced by 13% through better route management Typical Services: Energy audits Build business cases for energy efficiency improvements Renewable energy investigations NGER, NPI and GRI reporting Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig View case study Oil & Gas Key Insights: The sector is challenged by fluctuating oil prices and the payback for energy efficiency initiatives needs to be short Third-party maintenance contractors are often not incentivised to be proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often operating sub-optimally Process optimisation offers the cheapest and most significant energy reduction potential The sector is lagging in the setting of carbon reduction targets Oil processing facilities can significantly offset imported electricity across their portfolio using waste process fluids and heat Our Experience: NG personnel have worked with energy performance improvement teams in the petrochemical sector Typical Services: Energy audits & Sankey diagrams Feasibility studies for heat recovery, pump upgrades, KPIs, process improvements Pinch analysis Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates. Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig View case study Pharmaceutical & Health Products Key Insights: Process quality needs are critical. The value of the product outweighs energy costs significantly, meaning energy wastage can be easily overlooked It is rare that facilities understand how their energy use correlates to production or weather data Our Experience: Energy utility costs can be reduced by up to 30% whilst ensuring product quality outcomes are maintained. Energy audits of pharmaceutical processing plants Typical Services: Energy audits & Sankey diagrams Business cases for energy cost reductions Feasibility studies for cogeneration, boilers, compressed air, refrigeration, biomass boilers, heat recovery, and steam systems. Measurement and Verification for creation of energy savings and carbon certificates. Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig View case study Public Sector Transport Waste & Wastewater Wood, Paper & Cardboard Processing Public Sector Key Insights: Energy use patterns in the public sector can vary widely depending on the type of facility. Facilities can include Wastewater treatment plants, hospitals, prisons, universities, commercial buildings, libraries, car parks and sports facilities. Public sector facilities are often long-lived and strategic long-term energy reduction projects can be favourably looked upon. There can be hundreds of small facilities under management and tracking energy use data can be difficult, yet the cumulative energy spend is significant External facility managers are not always proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often operating sub-optimally Solar PV is making strong in-roads yet still under-utilised in the sector The key energy users are generally aquatic centres, water and wastewater treatment plants, council chambers, and other specialised facilities The sector is leading in the setting of carbon reduction targets Our Experience: New heat pump technologies are able to supply low grade hot water cost effectively in many climates Solar PV + hot water heat pumps can be a better option than small-scale cogeneration to reduce pool heating costs Biogas is under-utilised for heat and/or electricity in wastewater treatment Local government can be net-generators of electricity across their portfolio

using solar and bioenergy Better process control is the often the cheapest way to reduce energy costs

Typical Services: Energy audits & Sankey diagrams Building simulation modelling Feasibility studies for biogas cogeneration, boiler upgrades, pump station improvements, KPIs, process improvements, HVAC upgrades. Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates. Certificates & ratings (NABERS, BEECs, Greenstar)

Grant Raja Principal Consultant Grant Raja is an economist with over 20+ years of experience in data, strategy, reporting and emissions programs. Grant aims to help commercial and industrial clients find and develop a clear pathway to transform and take advantage of the opportunities to decarbonise and digitise. Contact Grant

Transport Key Insights: The sector is challenged by fluctuating chemical prices and rising input costs, and the payback for energy efficiency initiatives needs to be short Third-party maintenance contractors are often not incentivised to be proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often operating sub-optimally Process optimisation offers the cheapest and most significant energy reduction potential The sector is lagging in the setting of carbon reduction targets Waste heat opportunities are under-utilised

Our Experience: NG personnel have worked in chemical processes including ammonium nitrate, petro-chemical NG personnel have consulted on energy efficiency in petro-chemicals, plastics, etc.

Typical Services: Energy audits & Sankey diagrams Feasibility studies for heat recovery, pump upgrades, KPIs, process improvements Pinch analysis Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates.

Craig Morgan Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. Contact Craig

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Waste & Wastewater Key Insights: Wastewater facilities are often long-lived, and strategic long-term energy reduction projects can be favourably looked upon. Third-party maintenance contractors are often not incentivised to be proactive in driving energy efficiency initiatives Cogeneration is sometimes used but is often operating sub-optimally Solar PV is making strong in-roads yet still under-utilised in the sector Biogas is under-utilised for heat and/or electricity Aeration, blowers and RAS pumping consumes large proportions of electricity and can be better managed Process optimisation offers the cheapest and most significant energy reduction potential The sector is leading in the setting of carbon reduction targets Wastewater plants can be net-generators of electricity across their portfolio using solar and bioenergy

Our Experience: Over 20 energy audits of water & wastewater treatment plants Developed full Sankey diagrams for wastewater treatment Over 10 biogas cogeneration feasibility studies Identified >100 opportunities for energy efficiency covering plant upgrades, process control, behaviour change and renewable energy

Typical Services: Energy audits & Sankey diagrams Feasibility studies for biogas cogeneration, blower upgrades, pump improvements, KPIs, process improvements Business cases for energy cost reductions Measurement and Verification for creation of energy savings and carbon certificates.

Andrew Dawkins Consultant Andrew has been working with the Wattly Group (Northmore Gordon) since January 2017. Having worked in the VIC and NSW energy certificates schemes throughout 2017, his focus shifted to industrial energy efficiency and metering under the Northmore Gordon banner. Contact Andrew

Wood, Paper & Cardboard Processing Key Insights: The wood fibre sector depends heavily on heat (steam, hot water or thermal oil), compressed air, hydraulics, and lighting. Many companies don't closely track how energy is influenced by external factors and the process Saving energy doesn't mean a compromise in line speed or product quality Fans and dust collection are significant energy users and are often not well managed Waste biomass products can help supplement internal energy needs through use of wood-gas engines, steam turbines or ORC turbines

Our Experience: Complete energy audits of wood panel processing plants Greenhouse gas assessments of wood panel processing plants Creation of large numbers of energy efficiency certificates from fan upgrades Embedded generation feasibility studies using wood-gas engines, steam turbines or ORC turbines

Typical Services: Energy audits (steam, electricity, transport) & Sankey diagrams Feasibility studies for cogen, boiler upgrades, compressed air improvements, biomass boilers, heat recovery, and steam system improvements. Detailed assessment and monitoring (compressed air leak audit and report, real power, pressure, temperature, fan efficiency) Business cases for energy cost reductions Energy management diagnostics similar to ISO50001 gap analysis Measurement and Verification for creation of energy savings or carbon certificates

Craig Morgan

Managing Director Craig is a mechanical engineer with 20 years' experience including more than fifteen years' assisting organisations manage energy, greenhouse gas emissions, and the impacts of climate change. [Contact Craig](#) [View case study](#) [Get in touch](#) [Australia 1300 854 561 \(Advisory\) 1300 878 500 \(Certificates\)](#) [Melbourne Suite 1, Level 4 607 Bourke Street Melbourne VIC 3000](#) [Singapore +65 6690 2480](#) [Singapore 1 Keong Saik Road, Singapore 089109](#) Stay up to date Alternatively, complete the form and we will be in touch with you. [First Name](#) [Last Name](#) [Email](#) [Phone Number](#) [Country](#) [Australia](#) [Singapore](#) [Subject](#) [Message](#) [Send](#) [Services](#) [Energy Audit](#) [Services](#) [M&V](#); [Services](#) [EEO Assessments](#) [Corporate Energy](#) and [Carbon Management](#) [Grants and Program](#) [Strategic Energy](#) [Sourcing](#) [Virtual Energy Manager](#) [Climate Active Certification](#) [Sectors](#) [Animal Processing](#) [Chemical Processing](#) [Commercial Buildings](#) [Food & Beverage](#) [Manufacturing](#) [Mining](#) [Oil & Gas](#) [Pharmaceutical & Health Products](#) [Public Sector](#) [Waste & Wastewater](#) [Wood, Paper & Cardboard Processing](#) [Upgrades](#) [Boiler Upgrades](#) [Commercial Lighting](#) [Hot Water Systems](#) [Mid Scale Solar](#) [NABERS](#) [Public Lighting](#) [Refrigerated Display Cabinets](#) [Solar PV](#) [Small Scale UPS](#) [Certificates](#) [Live Certificate](#) [Prices](#) [International Renewable Energy](#) [Certificates](#) [Tradable Instrument for Global Renewables](#) [Australian Carbon Credit Units](#) [Energy Savings](#) [Certificates](#) [Large-scale Generation](#) [Certificates](#) [Small-scale Technology](#) [Certificates](#) [Victorian Energy Efficiency](#) [Certificates](#) [Government Schemes](#) [Emissions Reduction Fund](#) [Energy Savings Scheme](#) [Renewable Energy Target](#) [Victorian Energy Upgrades](#) [Helpful Links](#) [About us](#) [Meet the Team](#) [Careers](#) [Contact us](#) [Articles](#) [News](#) [Glossary](#) [Privacy Policy](#) [Complaints](#)