

Greenham: Moving Towards Decarbonisation - Northmore Gordon

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Certificates Our Environmental Attribute Certificate services help businesses accelerate technology adoption, improve project ROI, and manage claims of renewable energy, energy efficiency and carbon offset 1 carbon offset = 1 tonne of CO₂-e avoided or removed from the atmosphere. Avoided emissions covers activities that alter behaviour that would have otherwise caused emissions such as energy efficiency improvements or avoided deforestation. Removal covers activities that permanently remove CO₂ from the atmosphere such as new forestry plantations, soil carbon improvement or carbon capture and storage.

Live Certificate Prices The value of certificates change day-to-day, check today's prices Solar VEECs (VEU PBA) VEU PBA for Large-scale Solar Measurement & Verification (VEU & ESS) M&V; for Large C&I; Efficiency Projects (VEU PBA & ESS PIAM&V;) BESS Calculator Estimate the Peak Reduction Certificate revenue available to your NSW battery project in minutes ERF & Carbon Credit Registration ACCUs for Emission Reduction Projects Boiler Upgrades (VEU & ESS) 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. Greenham: Moving Towards Decarbonisation Case Studies May 20, 2025 Northmore Gordon The Client Greenham is a large-scale family-owned livestock business with three sites across Australia; Smithton (TAS), Tongala (VIC), and Moe (VIC). Rising energy costs and the need for alternative energy sources encouraged them to seek an energy expert to develop an end-to-end energy and carbon management strategy. How We Helped Renewing annual data Energy productivity audits Cogeneration support Carbon credit A certificate that is equivalent to 1 tonne CO₂-e. Credits often refer to instruments issued under a cap and trade scheme, where companies are allocated credits up to their emission cap. If they exceed the cap they need to purchase more credits. monetisation and government grants Energy and carbon reporting Energy efficiency certificate creation The Challenge Greenham is a large-scale family-owned livestock business with three sites across Australia; Smithton, Tongala, and Moe. Rising energy costs, ageing infrastructure, and the search for alternative energy sources encouraged them to seek an expert to help them with their energy and carbon management strategy. The Process Smithton Northmore Gordon was first engaged in 2014 to assist with a switch from coal to renewable biomass in the boiler at the Smithton site. Northmore Gordon registered the project for carbon off sets through the Emissions Reduction Fund (ERF The Emissions Reduction Fund is a voluntary scheme that aims to provide incentives for a range of organisations and individuals to adopt new practices and technologies to reduce their emissions.), negotiated sale of off sets to a buyer, and submitted the first off sets report. Knowledge of measurement and verification methods in the Carbon Farming Initiative enables Northmore Gordon's Energy and Carbon Performance Consultants to create Australian Carbon Credit Units (ACCU An ACCU is a unit issued to a person by the Clean Energy Regulator (Regulator) by making an entry for the unit in an account kept by the person in the electronic [Australian National Registry of Emissions Units] registry. Each ACCU issued represents one tonne of carbon dioxide equivalent (tCO₂-e) stored or avoided by a project. An ACCU can only be issued to a person if the person has a Registry account.) every year, delivering a total of over \$175K of value to Greenham. This involves intensive data analysis, modelling, liaising with the Clean Energy Regulator The Clean Energy Regulator is the Australia Government body responsible for accelerating carbon abatement for Australia through the administration of the National Greenhouse and Energy Reporting scheme, Renewable Energy Target and the Emissions Reduction Fund. More , participating in ACCU Auctions, and negotiating with buyers on the secondary market. Further to the creation of ACCUs, Greenham was investigating a

replacement for their biomass boiler which was nearing the end of its life. Northmore Gordon prepared a detailed specification of the new boiler and identified capable supply and installation contractors. A new state-of-the-art model is now operating at 15-20% greater efficiency, leading to a fuel cost saving of \$50K per annum. Tongala Following the work at Smithton, Greenham was interested to assess the viability of embedded solar PV Solar Photovoltaic at Tongala. Northmore Gordon performed a solar feasibility analysis and investigated the suitability of a 2MW solar farm quoted by an external supplier. With complex electrical and thermal systems it was determined that other options should be investigated before proceeding. Subsequently Northmore Gordon performed an energy audit to provide a comprehensive review of the facility's energy performance and renewable energy generation options. Although solar was considered, the audit revealed that cogeneration powerfully aligned with the energy profile and needs of the business. Funding through Sustainability Victoria supported the cost of the audit. There were 15 potential areas of optimisation around the site, which would provide an estimated cost savings of \$1M per annum. Greenham wished to further investigate three of these areas, upgrading the hot water system, cogeneration and conversion to High Voltage supply. These stand-alone business cases required further engineering design work and engaging suppliers. Greenham progressed with the cogeneration opportunity, which would also help alleviate hot water complications. Northmore Gordon also identified that cogeneration could be funded under a government grant, and Victorian Energy Efficiency Certificates (VEECs) could be created based on the energy savings Electricity or gas savings or both. . The grant was secured and the project registered for VEECs, improving the business case. The final design included 2MW of cogeneration units running off natural gas and biogas captured from the wastewater treatment system. This will provide electricity and hot water to the site and will augment the existing gas-fired hot water heaters. Outcome Greenham is now positioned as a leader in energy and carbon performance in the livestock processing sector and there are even more opportunities to improve. By entrusting Northmore Gordon to help improve carbon and energy performance, Greenham has drastically reduced energy costs, reduced greenhouse gas emissions, and improved energy productivity at their sites. Northmore Gordon worked extremely hard to unlock funding to help finance energy productivity and decarbonisation projects. This has been achieved through the annual creation of ACCUs at Smithton with a final value of over \$175K. At the Tongala site the cogeneration project NG has been able to generate over \$4.5M in total for Greenham from an upfront grant and from the VEU Victorian Energy Upgrades is a Victorian government energy efficiency program that gives every Victorian household and business the opportunity to receive rebates or discounts on energy saving products. program for project implementation. With the help of experts, you can help transform your energy performance and dramatically reduce costs. For more information contact: c.morgan@northmoregordon.com A large family-owned livestock business with operations in Tasmania and Victoria, producing premium beef and maintaining strong regional ties to Australian farming communities. Industry Livestock Location Smithton (TAS), Tongala (VIC), and Moe (VIC) Phil Woodward Engineering Manager Contact Phil > You may also like: Case Studies Turning a Regional Utility into an Active Energy Market Participant Case Studies Visy Gibson Island: 34,000 t CO2e Cut a Year With Waste-to-Energy Case Studies MainStream Aquaculture: \$19K Grant funds a heat pump electrification project Case Studies Kalafatis Fresh Produce: \$283K in Solar Certificates Case Studies Poultry Client Set to Hit 2030 & 2050 Carbon Emissions Targets Case Studies AJ Bush & Sons: 10MW Boiler Upgrade Funded by Energy Savings Certificates 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. 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