

AJ Bush & Sons: 10MW Boiler Upgrade Funded by Energy Savings Certificates - Northmore Gordon

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Northmore Gordon went above and beyond to get the project done and were able to work under difficult circumstances to make sure AJ Bush Manufacturing was able to access the credits for this project.” Nick Lawrance Plant Engineer AJ Bush & Sons The Client AJ Bush & Sons (Manufactures) is Australia’s largest east coast protein recovery provider operating rendering and manufacturing plants in NSW and QLD. The plants specialise in processing animal by-products for the meat/butchery industry. The NSW (Riverstone) plant’s collection area, in addition to Sydney Metro, ranges from Nowra in the south to Canberra, Dubbo and Bathurst inland and up to Newcastle and Tamworth in the north. The material collected is recycled into products used for livestock, pet food, aquaculture, fertiliser and biofuels. Key Facts Equipment Upgraded: Gas-fired boiler (50y.o originally oil-fired) Annual Energy Savings Electricity or gas savings or both. : 11,790 GJ A gigajoule (GJ) is the equivalent to 1 billion joules. A joule is a measure of the energy required to send an electrical current of one ampere through a resistance of one ohm for one second. One GJ is equal to 277.8 kilowatt hours (kWh), 1.055 million British thermal units (Btu) or 0.17 barrels of oil. p/a Opex: > \$80,000 Certificate Value: \$120,000 Project Payback Period: 15 Years Program: NSW Energy Savings Scheme Method: Installation of High-efficiency Appliances for Business (IHEAB) The Project AJ Bush Manufacturing Plant (NSW) operates 24/6 processing red meat and poultry by-products, making it extremely important that the boiler runs reliably and efficiently. An earlier energy audit in the plant identified a number performance improvements and highlighted the advantages of a boiler replacement. The plant had already made a number of services and repairs but it was determined the boiler was at the end of its serviceable life and the decision was made to replace the unit. The upgrade from the 7.3MW boiler to a new 10 MW boiler for extra capacity included many efficiency options including an economiser, oxygen trim, electronic air/gas ratio, and automatic TDS blowdown. Northmore Gordon is a leader in environmental certificate creation and trading. We have created the most certificates of all Accredited Persons under the Victorian Energy Upgrades program, an Accredited Certificate Provider in the NSW Energy Savings Scheme, and registered agent under the Federal Renewable Energy Target. Challenges Project was completed and done in conjunction with production as AJ Bush operates 24/6 Outcomes 7.3MW Gas

boiler was replaced with 10MW boiler Our Role Northmore Gordon were engaged during the specification of the boiler and were able to calculate the value in energy saving certificates for various options (such as the economiser and blowdown controls). Working under Northmore Gordon's direction AJ Bush collected much of the evidence required to meet the NSW ESS The NSW Energy Savings Scheme (ESS) provides financial incentives to install, improve or replace energy savings equipment and appliances in NSW households and businesses. The ESS was established in 2009. Financial incentives are in the form of tradeable certificates, called energy savings certificates (ESCs). Generally, householders and businesses who fund energy savings activities transfer the right to create ESCs to Accredited Certificate Providers (ACPs) in return for a discount on the cost of the energy savings activity. The MWh savings from the project determines the number of ESCs that can be created. The ESS works by allowing ACPs to create and register ESCs for energy savings that are supported with appropriate evidence. ESCs are then purchased each year by mainly electricity retailers operating in NSW to meet their share of a legislated annual energy savings target. program requirements. In addition Northmore Gordon provided a price hedge to protect against adverse changes in the certificate price during the finalisation of the claim and the audit process. Founded in 1909 in Queensland, AJ Bush & Sons is a leading processor of animal by-products for domestic and export markets. Industry Manufacturing Location NSW and QLD Hamish McGovern Group Managing Director Contact Hamish > You may also like: Case Studies Turning a Regional Utility into an Active Energy Market Participant Case Studies Visy Gibson Island: 34,000 t CO2■e 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 Greenham: Moving Towards Decarbonisation 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