

AJ Bush & Sons reduces energy costs with needed upgrade



“ Northmore Gordon worked alongside the boiler installation company as well as AJ Bush Manufacturing to complete the project. 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 Lawrence - Plant Engineer

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	11,790 GJ 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.

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 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.



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.

We've provided \$100m of financial incentives for energy efficiency and renewable energy projects at over 40,000 commercial, industrial and residential sites. This has saved our clients and partners gigawatt hours of energy, millions of dollars and reduced greenhouse gas emissions by over 5 million tonnes of CO₂e.



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