

Visy Gibson Island: 34,000 t CO₂e Cut a Year With Waste-to-Energy - Northmore Gordon

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Efficiency Assessments Energy Procurement Navigate energy markets with confidence Virtual Environmental Manager Leverage our teams wide experience Certificates Close Certificates Open Certificates 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. certificates Live Certificate Prices The value of certificates change day-to-day, check todays 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. Visy Gibson Island: 34,000 t CO₂-e Cut a Year With Waste to Energy Case Studies October 8, 2025 Craig Morgan A premium, circular economy project cutting waste, coal and carbon – with strategic 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. “This is a true example of ‘doing more with less’ – less waste, less fossil carbon, less cost and more long-term value.” – Hamish McGovern, Group Managing Director, Northmore Gordon Project Summary As part of a \$48 million self-funded sustainability investment, Visy transformed its Gibson Island paper mill into a leading industrial biomass facility. With Northmore Gordon’s strategic advisory, the project:

- Converts over 33,000 tonnes of mixed commercial waste annually diverted from landfill into on-site renewable fuel
- Displaces 17,000 tonnes of coal per year in steam generation
- Delivers verified emissions reductions of 34,000 t CO₂-e annually, peaking at 60,000+ in year 7.
- Achieves dual-method 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. registration: Alternative Waste Treatment (AWT The alternative waste treatment method provides an incentive to develop new alternative waste treatment (AWT) facilities, or expand existing AWT facilities to increase the capacity of waste that can be processed.) and Industrial & Commercial Emissions Reduction (ICER The Industrial Commercial Emissions Reduction method provides a framework for evaluating and crediting carbon abatement projects, ensuring they are additional, measurable, and verifiable.) This integrated approach reduces landfill levies, methane emissions, and fossil fuel use – while unlocking stacked carbon credit revenue within a single facility. Client • Organisation: Visy Paper Pty Ltd • Sector: Pulp & Paper Manufacturing • Location: Gibson Island, Brisbane, QLD • Project Commissioned: April 2023 • 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. Registration Commenced: 2024 Northmore Gordon’s Role • Designed a stacked carbon credit strategy across AWT and ICER methods

• Project registration under the Federal Emissions Reduction Fund (ERF) methods • Ensured full compliance against rigorous legislation and annual reporting requirements • Provided emissions reporting and ongoing carbon credit verification Project Impact Environmental Outcomes • 33,000+ tonnes of landfill waste diverted annually • 17,000 tonnes of coal displaced per year • 34,000 t CO₂-e p.a. verified emissions reductions growing to 60,000+ by year 7 • Significant methane emissions avoided Economic & Operational Benefits • Approx. \$2 million in annual fuel cost savings • Additional revenue from carbon credits and materials recovery (steel, aluminium, PVC) • Substantial savings in landfill levies (33 kt avoided annually) • Operational flexibility enabled by the upgraded multi-fuel boiler Strategic Leadership & Replicability • First Australian pulp and paper site with dual-method ERF registration • Fuel Preparation Plant uses eddy currents, magnets and optical sorting to recover metals/PVC recyclable materials • Establishes replicable model for waste-to-energy in pulp & paper and other manufacturing sectors • Demonstrates commercial viability of circular biomass in industrial steam systems Community & Employment Benefits • Reduced truck movements to landfill, lowering traffic and emissions impacts locally • Significant local job creation during construction and ongoing operations • Local suppliers and service providers engaged, strengthening the Australian waste-to-energy capability Technical Highlights • Advanced fuel preparation using Lindner primary shredder, Steinert magnets and eddy-current separators, and TOMRA optical sorters • Production of consistent-quality process-engineered fuel from contaminated waste • Seamless John Thompson boiler retrofit for multi-fuel capability and emissions compliance • Real-time analytics system for fuel, emissions and performance monitoring • Smart system integration supporting 24/7 mill operations without disruption Innovation Highlights • First-of-its-kind stacked ERF method deployment on a single industrial site • Circular economy model that converts in-house waste into a renewable fuel asset • Fully self-funded \$48M investment – no external grants or subsidies required • Carbon credit strategy that avoids inter-site logistics and third-party processing Why It Matters This project demonstrates what's possible when industrial decarbonisation meets circular economy thinking and engineering precision. Visy now runs a high-efficiency biomass system that: • Eliminates its own waste stream • Displaces coal • Secures long-term fuel resilience • Generates multiple revenue channels – all without interrupting production With Northmore Gordon's regulatory and technical expertise, compliance became commercial advantage. For more information, call or email Craig Morgan or submit your interest here today. Visy is powering the circular economy, closing the loop between packaging, recycling and remanufacturing. Industry Manufacturing Location Australia Wide Reuben Forster Senior Engineer, M&V; Contact Reuben > You may also like: Case Studies Turning a Regional Utility into an Active Energy Market Participant 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 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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