

Bio-Tech Company Injects Life Into Their Energy Efficiency - Northmore Gordon

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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 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. Bio-Tech Company Injects Life Into Their Energy Efficiency Case Studies January 1, 2023 Northmore Gordon Northmore Gordon worked closely with a Singapore-based manufacturer of precision equipment over 2021 to complete an Energy Efficiency Opportunities Assessment for New Ventures (EEOA-NV) as required by Singapore's National Environment Agency (NEA). The complex requirements of the Program were fully met and the report submitted so our customer would receive Development Consent. In addition, NG identified practical energy saving opportunities that are now being implemented as part of the new-build. The Client The Client has been established in Singapore for many years, with manufacturing operations. The operation involves creation of precision, high quality parts in a clean-room environment for a specific end-use. It is supported by utilities including compressed air, boiler, air conditioning and chiller systems, centralised extraction systems, and cooling towers. The Project To meet the requirements of the Energy Conservation Act, potential new ventures or major expansion of sites in Singapore that use over 54 TJ per annum need to undergo an Energy Efficiency Opportunity Assessment on the design. The upgrades proposed and included in the final design included high efficiency motors for compressors, an improved clean room control strategy, high efficiency motors for fans in MAUs/exhausts/ovens, CO₂ sensor controls, high efficiency chillers, lighting controls, and solar PV Solar Photovoltaic . Key Facts EEOA completed in line with regulation Annual Savings Estimates compared to the Base Design Energy: 5,660 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. /annum Carbon Abatement: 641 tCO₂e OPEX: ~\$236,000 Project Details CAPEX: ~\$343,000 Payback: ~1.5 years Challenges Competitive pressures to provide high quality services with strict quality controls whilst minimising operating costs Energy bills represent a substantial cost the operations New equipment proposed needs to gain approval from their international parent company prior to being used. Additional Benefits Lower running costs when the new facility is built Optimised ventilation rates Our Role Northmore Gordon worked very hard to complete the work to the standard required by the NEA in the line with the development timeframe. This included working with the design team, architects, and M&E; contractors through the difficulties of restrictions that occurred in 2020 due

to Covid lockdowns. The work included a detailed base case energy balance, detailed analysis of the design, identification of energy efficiency opportunities in conjunction with the Client, completion of the NEA's report template, and achieving sign-off by the Client stakeholders and the NEA. The Client has been established in Singapore for many years, with manufacturing operations. The operation involves creation of precision, high quality parts in a clean-room environment for a specific end-use. Industry Biotechnology Location Singapore Craig Morgan Sales & Marketing Director Contact Craig > 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 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