

Aurora Place: HVAC overhaul funded by Energy Savings Certificates - Northmore Gordon

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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. Aurora Place: HVAC overhaul funded by Energy Savings Certificates Case Studies May 14, 2025 Northmore Gordon “The Northmore Gordon team spent a great deal of time gathering the information, which was made all the more difficult due to COVID 19. Their diligence enabled a fantastic outcome for Aurora Place. The measurement and verification process allowed us to validate the energy savings Electricity or gas savings or both. of the project which confirmed the decision to replace our equipment. The revenue from the energy savings certificates allowed us to invest in further developments at Aurora Place”. – Duncan Demol, National DC Facilities Manager costs reducing the payback. The Client Aurora Place, is a premium grade commercial building, with over 70 high profile tenants ranging from financial, law and health related industries. The commerical tower features 18 levels and is 49,400m² bounded by Phillip Street, Bent Street and Macquaries Street. It is an iconic site, featuring in the Sydney Skyline, clearly visible from the famous Sydney Harbour. Key Facts Equipment Upgraded: HVAC Heating, ventilation, and air conditioning is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. Chiller System, Chillers, VSD Variable Speed Drive Annual Savings Energy: 309,000 kWh Project Certificate Value: \$46,000 Program: NSW Energy Savings Scheme (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.) Method: Project Based Activities (PIAM&V; Project Impact Assessment with Measurement and Verification) The Project Aurora Place determined an energy efficiency project was going to be a beneficial and rewarding course of action. The project involved a full overhaul of the site’s HVAC chiller system which included the replacement of 5 existing chillers, base building cooling tower upgrades, variable speed drive (VSD) replacement on chilled water and condenser water pumps, upgrades to the

outside air variable control and hot water coil bypass dampers. In addition to works on various air handling units. The creation of ESCs for this project provided more revenue to further improve the performance of the building. The M&V; work done during the ESC An energy savings certificate (ESC) is a tradeable certificate created under Division 7 of Part 9 of the Electricity Supply Act 1995. Each ESC represents one notional megawatt hour (MWh) of energy. creation process also allowed Northmore Gordon to monitor the energy savings as a result of the project. Challenges Aging equipment could impact reliability M&V; process discovered fault in control system Energy bills represent a substantial cost to data centre operators Aging equipment could impact reliability Additional Benefits Reduction in energy consumption Upgraded to a more eco friendly product Chillers provider a greater range and configuration improving the cooling capability of the building Our Role Northmore Gordon created energy savings certificates (ESCs) using M&V; methodologies on the site consumption before and after the implementation of the HVAC works. Northmore Gordon completed the measurement & verification (M&V;) plan, collected site data & supporting evidence, and built the baseline and operating energy models to calculate the energy savings. Northmore Gordon also provided Aurora Place with price certainty to ensure the customer received the payment they had forecast. For more information contact: c.morgan@northmoregordon.com A landmark mixed-use skyscraper in Sydney's CBD, designed by Renzo Piano, featuring an iconic glass façade and premium office and residential spaces. Industry Commercial Location Sydney, Australia Shan Nanayakkara Senior Energy Engineer Contact Shan > 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