

Northmore Gordon Helps Companies Achieve Net-Zero Status for Operations In New Zealand - 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. Northmore Gordon Helps Companies Achieve Net-Zero Status for Operations In New Zealand Northmore Gordon August 29, 2022 Articles Share this article To add to our inventory of services, Northmore Gordon has become a registered Participant in the New Zealand Energy Certificate System (NZECS). This development enables our team of energy experts to help companies navigate the NZECS and reach net-zero status for their business operations in New Zealand. Companies worldwide are implementing methods and pathways to support the net-zero movement. Alongside efforts to lower Scope 1 emissions through energy efficiency improvements, companies have the option of participating in voluntary certificate markets to claim that their energy is sourced from zero-carbon energy sources. The New Zealand Energy Certificate System (NZECS) is one such market. Initiated in 2019 by Certified Energy, the NZECS New Zealand Energy Certificate System, the Renewable Energy Certificate registry in New Zealand managed by Certified Energy provides a voluntary market for the buying and selling of energy attribute certificates for New Zealand-based activity. The NZECS is aligned with international greenhouse gas (GHG Greenhouse gases trap heat in the atmosphere. They all have different global warming potentials (GWP) over different time frames, the higher the number, the worse the impact. For simplicity of accounting everything is referenced back to carbon dioxide which has a global warming potential of 1. There are over 200 GHGs listed in the IPCC fifth assessment report, a sample are below. Note that in current carbon accounting standards the 100 year GWP is used. Greenhouse gas 20 year GWP100 year GWPCarbon dioxide CO₂11Methane CH₄8428Hydrofluorocarbon HFC-134a37101300Chlorofluorocarbon CFC-1169004660Nitrous Oxide N₂O264265Sulfur hexafluoride SF₆17,50023,500) reporting schemas, such as the Greenhouse Gas Protocol The GHG Protocol is the most widely used greenhouse gas accounting standard for companies. It provides guidance on the calculation of scope 1, 2 and 3 emission sources. It is consistent with the ISO 14064 series of accounting standards on greenhouse gases. . Therefore, it represents a rigorous standard for participating energy users to claim the use of renewable energy and lower their Scope 2 emissions. As a verified NZECS Participant, Northmore Gordon can source, procure, and redeem energy certificates for companies with New Zealand operations. This enables us to better support companies on their journey to net zero and to help them develop strategies that align with their corporate values and

objectives. How the NZECS Works The NZECS marketplace is made up of verified Registrants and Participants. Registrants generate electricity from renewable energy (or approved low-carbon technology) systems and issue energy certificates to the NZECS registry. Participants register energy users that can purchase, trade, and redeem energy certificates. As a tradable commodity, each NZECS energy certificate (NZ-EC New Zealand Energy Certificate, equivalent to 1 MWh of renewable electricity) includes the same core elements. The price is described in cost per MWh (in NZD), and the NZ-EC vintage shows the production year for the energy it represents. An NZ-EC also details the volume of MWh as well as the fuel source, technology details, and location of the production device. The NZECS is designed to promote responsible accounting of NZ-ECs. The registry has tracking measures in place to avoid double counting of certificates. In addition, NZ-ECs must be redeemed by a Participant in the same reporting year as the energy was generated. Any issued certificates that go unused by the end of the reporting cycle are automatically cancelled.

How NZECS Participation Benefits Businesses For a facility that is connected to the energy grid, it is impossible to assert the source for its electricity (unless the facility owns and operates its own onsite renewable energy system, such as a rooftop PV Solar Photovoltaic solar system). For comparison, imagine a large bathtub that has many small drains and numerous taps. After water comes out of a tap, it combines with the water pouring out of the other taps to form one mixture. By the time the water exits an individual drain, it is impossible to determine from which tap that water originally came. The same goes for the electricity grid. Once the generated electricity enters the grid — whether it comes from solar, coal, or natural gas — it becomes indistinguishable from the other electricity in the mix. When electricity moves into a home, business, or industrial facility, the source of that electricity cannot be determined. Therefore, for a facility to make any claim over the source for its grid-tied energy, the facility must purchase an NZ-EC. In that way, the NZECS offers energy users the option to showcase support for clean energy. In addition, purchasing NZ-ECs helps companies reach their corporate sustainability goals and targets. These achievements can be highlighted in stakeholder engagement reports as well as in carbon disclosure assessments for various investor-driven reporting frameworks. Demonstrating follow-through on net-zero commitments and initiatives can help a company stand out from its peers. This competitive edge opens opportunities to strengthen economic performance and advance corporate objectives.

Accelerating the transition away from carbon-based fuels is quickly becoming both a societal and business imperative. The severity and increased frequency of extreme weather events showcase the financial and societal toll from increasing atmospheric concentrations of greenhouse gases (GHGs) like CO₂ and methane. The NZECS enables marketplace participants to support renewable energy generation and help spur additional development.

Northmore Gordon Serves As An NZECS Participant As a registered NZECS Participant, Northmore Gordon can serve as a market intermediary for companies with New Zealand operations. This allows our team of energy experts to source, purchase, trade, and redeem NZ-ECs for our clients so that they can smoothly reach their net-zero targets. Issued NZECS certificates represent production devices that vary by location, fuel source, and technology type. Registrants also differ in their approach to managing profits earned from NZ-EC sales. This selection diversity opens an opportunity for energy users to establish a thoughtful and intentional certificate procurement strategy. Northmore Gordon strives to understand a company's corporate identity to develop an energy certificate procurement strategy that aligns with the business' values and objectives. This level of support can provide companies with the confidence to commit to more ambitious clean energy initiatives, like RE100 RE100 is the global corporate renewable energy initiative bringing together large businesses committed to 100% renewable electricity. The members must be influential based on their either their brand, global presence, significant energy use or other characteristics that bring attention to their commitment. All companies must commit to purchasing 100% of their electricity from renewable sources by 2050 and purchase that power in the same location they are using it. Interim targets are 60% by 2030 and 90% by 2040. The program is led by the Climate Group in partnership with the CDP. More . The business landscape is moving toward clean energy. Northmore Gordon assists companies with deep decarbonisation efforts, and our services now include helping companies take advantage of the emerging voluntary energy certificate market in New Zealand.

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