

Biomass boiler heats greenhouses through the VEU program: Van Wyk Flowers - Northmore Gordon

Canonical: <https://northmoregordon.com/case-studies/van-wyk-flowers-watch-energy-savings-bloom/>

Details:

Biomass boiler heats greenhouses through the VEU program: Van Wyk Flowers - Northmore Gordon

Skip to content Live AU Certificate Prices Twitter LinkedIn-in Youtube Buy and Sell Global RECs Contact Search Carbon moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Climate Active Net Zero Roadmaps Carbon and Energy Strategy NGERs Reporting Carbon Health Check Grants and Programs Funding Energy Grants and Programs Funding Energy Audit & Assessments Energy Optimisation Compressed Air Services EEO Assessments (SG) Strategic Energy Sourcing Energy Procurement Virtual Environmental Manager Certificates Live Certificate Prices Funding Solar VEECs (VEU PBA) Measurement & Verification (VEU & ESS) ERF & Carbon Credit Registration Boiler Upgrades (VEU & ESS) Hot Water Systems (VEU & ESS) Deemed Certificates (VEU & ESS) moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Global Certificates Australian Programs Case Studies Articles Team More About Us Locations Contact Us Careers Articles Latest News Government Updates Accreditations Glossary Carbon moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Climate Active Net Zero Roadmaps Carbon and Energy Strategy NGERs Reporting Carbon Health Check Grants and Programs Funding Energy Grants and Programs Funding Energy Audit & Assessments Energy Optimisation Compressed Air Services EEO Assessments (SG) Strategic Energy Sourcing Energy Procurement Virtual Environmental Manager Certificates Live Certificate Prices Funding Solar VEECs (VEU PBA) Measurement & Verification (VEU & ESS) ERF & Carbon Credit Registration Boiler Upgrades (VEU & ESS) Hot Water Systems (VEU & ESS) Deemed Certificates (VEU & ESS) moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Global Certificates Australian Programs Case Studies Articles Team More About Us Locations Contact Us Careers Articles Latest News Government Updates Accreditations Glossary Carbon Close Carbon Open Carbon Carbon Our decarbonisation services help businesses transition to low-carbon operations and covers footprints, reporting, certificates, carbon solutions and net-zero Net-zero is a term meaning to get to zero emissions, there is no current standard on what getting to net-zero means. For governments a net-zero target is one that covers all scope 1 emissions in their jurisdiction. For business it usually covers scope 1 and 2 emissions, although some companies also include some scope 3 emissions. The Science Based Targets Initiative is currently working on a standard for companies. roadmaps, to reduce emissions moREnewable100 (RECs & Offsets) Reach Global Sustainability Goals with Renewable Energy Certificates and Carbon Offsets Trade RECs & Carbon with us Trade Local & International Environmental Attribute Certificates Climate Active Achieve Climate Active Carbon Neutral Certification Net Zero Roadmaps Identify opportunities and build achievable pathways Carbon and Energy Strategy Integrate your carbon and energy strategies NGERs Reporting National Greenhouse Emissions Reporting Grants and Programs Review the latest grants and programs Energy Close Energy Open Energy Energy We offers comprehensive energy services, focusing on efficiency improvements, cost reduction, monitoring, benchmarking and strategic sourcing for sustainable and positive environmental impacts Grants and Program Review the latest grants and programs Energy Audit & Assessments Identify cost and emissions reductions Energy Optimisation Metering & Monitoring, Feasibility Studies, EnMS and ISO50001, & Benchmarking Strategic Energy Sourcing Feasibility & Assessments: Renewables, PPAs or Certificates Compressed Air Services Air Compressor Leak Audits, Surveys and Benchmarking EEO Assessments (SG) Singapore Energy 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. Biomass boiler heats greenhouses through the VEU program: Van Wyk Flowers Case Studies December 2, 2020 Danielle O'Reilly With the unpredictable price rises surrounding natural gas, the move to this renewable energy (renewable biomass from waste wood which is part of the natural carbon cycle) is not just great for our bottom line, but even more importantly, has allowed us to reduce our carbon (CO₂) footprint by a massive margin. Wattly and Northmore Gordon provided a very professional service and the value from the VEU Victorian Energy Upgrades is a Victorian government energy efficiency program that gives every Victorian household and business the opportunity to receive rebates or discounts on energy saving products. significantly contributed to the capital costs reducing the payback. – Paul Purcell, Van Wyk Flower Supply Pty Ltd The Client Van Wyk Flower Supply Pty Ltd is a longstanding family owned cutflower/plant farm based southwest of Melbourne. For many years they have grown and sold produce to the flower industry. The intense horticulture used a large amount electricity and natural gas and Van Wyk had already invested in a 350 kW solar system to help power irrigation and onsite functions. Heating is a necessary component of growing to ensure the consistency in quality and numbers. To heat the expansive glasshouse areas the farm had two natural gas boilers (total 7MW) and were looking for alternative solutions. Key Facts Equipment Upgraded: Replacement of 3MW gas-fired to boiler to biomass Annual Energy Savings Electricity or gas savings or both. : 41,000 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. Gas Abatement: 2,131 tCO₂e, OPEX: ~300,000 Certificate Value: >\$ 450,000 / <5 year payback Program: Victorian Energy Upgrades (VEU) Method: Project Based Activities (PBA Project Based Activities) Wattly Partner: Northmore Gordon (Consulting) The Project Industry leaders in biomass boilers and energy systems (Enriva Pty Ltd) delivered substantial energy savings by replacing the existing gas-fired boilers to a single 2.95MW biomass plant fuelled by timber residues from Victorian forestry & timber operations. Through a network of heating pipes, the boiler runs continuously and feeds hot water into a large insulated buffer (2,000,000 litre tank). This is a highly innovative and important part of the solution. The tank acts as a large thermal battery allowing the system to deliver very high peak loads and is drawn down overnight and during cold weather. Challenges Competitive pressures from international growers airfreighting

flowers and herbs to Australia Unstable price of natural gas, due to the world demand increased uncertainty Drastic increase of gas prices in 2016-2018 Little room to increase flower & herb prices Outcomes Gas boiler was fully shutoff Natural Gas Supply to the boilers was decommissioned Our Role Wattly and Northmore Gordon provided an end to end service to ensure the project complied with the Victorian Energy Upgrade Program to maximise the financial incentives. Northmore Gordon's Certified Measurement & Verification Professionals (CMVPs) created the M&V plan, collected site data & supporting evidence, and built the baseline and operating energy models to calculate the energy savings. Subsequently we wrote the M&V report, then created and traded the VEECs on behalf of the client. A family-owned cut-flower farm in Lyndhurst, Victoria, specialising in sustainably grown seasonal flowers for wholesale markets across Australia. Industry Horticulture Location Lyndhurst, Victoria Hamish McGovern Group Managing Director Contact Hamish > 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