

Turning a Regional Utility into an Active Energy Market Participant - Northmore Gordon

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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
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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. 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Graeme Dick Manager Strategic Infrastructure Projects GWMWater Grampians Wimmera Mallee Water needed more than a conventional renewable energy project. It required a whole-of-portfolio strategy to reduce emissions, strengthen resilience, and gain greater control over energy costs. Northmore Gordon helped shape an integrated clean energy approach combining generation, storage, load optimisation and wholesale market participation. The Challenge GWMWater provides water and wastewater services to 72,000 customers across north-western Victoria, operating 343 facilities. The organisation faced a complex decarbonisation challenge: • A distributed portfolio with diverse demand profiles • Critical service obligations requiring reliable operations • Exposure to volatile electricity pricing • The risk that conventional solutions would shift cost exposure rather than reduce it Standard approaches, standalone solar or passive procurement, could not address this complexity. GWMWater needed a strategy that could: • Align engineering, operations and market participation • Offset 100% of electricity consumption annually • Achieve net zero Scope 2 emissions • Deliver a commercially robust, board-ready model Our Approach Northmore Gordon supported the development of a portfolio-wide clean energy strategy based on treating energy as an integrated system. At its centre is the Nhill Renewable Energy Facility (6.5 MW solar, 6.5 MWh battery), supported by: • ~2.3 MW behind-the-meter solar PV Solar Photovoltaic • ~1.2 MWh site-based battery storage • Load shifting and shedding capability A key outcome was enabling wholesale market participation rather than a traditional retail structure, unlocking value through self-generation, storage arbitrage, reduced price exposure, and ancillary services. Load shifting was integrated through GWMWater's SCADA system, allowing operations to align with renewable availability and lower-cost periods while maintaining water security. The result was a redesigned energy operating model. Key Technical and Advisory Outcomes Northmore Gordon supported the feasibility assessment for the business case of this solution, enabling GWMWater to: • Integrate renewable assets across the

portfolio • Shift solar energy using battery storage • Optimise loads through shifting and shedding • Participate in wholesale electricity markets • Improve resilience and reduce long-term cost exposure • Build a scalable framework for future integration

The Results The strategy delivers a step change in environmental and commercial performance:

- Positions GWMWater to achieve 100% renewable electricity
- Enables net zero Scope 2 emissions
- ~\$1.3 million in annual savings on ~\$17 million investment
- ~13-year payback with ~\$4 million NPV over 25 years
- Enables price arbitrage and reduces exposure to volatility
- Creates potential revenue from ancillary services

Beyond this, GWMWater shifts from a passive electricity buyer to an active market participant, with the ability to generate, store, shift and optimise energy across its network.

Why It Matters This project shows what is possible when decarbonisation is treated as both an engineering and commercial strategy. For GWMWater, the outcome is a stronger operating model linking technical design, market intelligence and control systems to measurable value. It demonstrates that regional utilities can reduce emissions while maintaining financial discipline. For Northmore Gordon, it reinforces an approach that goes beyond feasibility reporting, delivering practical, board-ready strategies grounded in technical depth and commercial realism. Do more with less energy cost and carbon exposure. Northmore Gordon helps utilities and large energy users turn decarbonisation into a practical operating strategy.

Industry Water & Wastewater Location North-western Victoria Grant Raja Senior Business Development Manager

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