

# DON Smallgoods Develops Energy and Carbon Strategy - Northmore Gordon

Canonical: <https://northmoregordon.com/case-studies/don-smallgoods-tools-for-an-energy-and-carbon-strategy/>

## Details:

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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 CO<sub>2</sub>-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 CO<sub>2</sub> from the atmosphere such as new forestry plantations, soil carbon improvement or carbon capture and storage.

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DON Smallgoods Develops Energy and Carbon Strategy Case Studies March 8, 2021 Northmore Gordon Don Smallgoods (DON), part of George Weston Food Limited, operates a large processing plant at Castlemaine that produces a substantial tonnage of processed meats. The Castlemaine site has relatively complex energy systems and is located on a constrained electricity feeder. The Goal The Northmore Gordon team helped DON Smallgoods develop an integrated Energy Supply and Carbon Strategy for 2019-2030 taking into account: Energy security Energy cost Operational complexity Ownership/Procurement options Carbon footprint The Challenge Don Smallgoods (DON), part of George Weston Food Limited, operates a large processing plant at Castlemaine that produces a substantial tonnage of processed meats. The site has relatively complex energy systems including; boilers, gas-fired cogeneration, and large refrigeration systems, and is located on a constrained electricity feeder. Energy expenditure is significant, and energy security is critical to the operations. Increasingly, the security and cost of energy supplies to manufacturers are subject to external factors such as global initiatives (e.g. the Paris Climate Accord), Eastern Australia's export natural gas industry, Government policies around gas exploration and reservation, electricity network regulation, climate change response, business growth plans, electricity grid constraints, and emerging energy technologies. The absence of an overall energy supply and carbon strategy meant it was difficult to make informed decisions around the energy assets and future energy supplies. For example should they integrate bio gas with natural gas, or phase out gas completely over time? Are there benefits of an on-site solar system and what are the implications for investment in the cogeneration plant? What role do renewable PPAs have, and what risks are there? Northmore Gordon was already working closely with the site on energy productivity under a long-term partnership program, and was chosen to assist DON plan their energy supply and decarbonisation journey. The Process Northmore Gordon used a strategic framework that was underpinned with solid market, policy, and technical analysis. Market Context : Up-to-date analysis was completed on national and international policy, the Australian energy market, technology trends and implications for the site, and corporate policies. Analysis: Our Energy and Carbon experts developed a tool for modelling the financial, carbon and operational risks of different energy supply strategies and the impact over a ten-year timeframe. Integrated Energy and Carbon strategy: An integrated energy and carbon strategy was compiled, along with suggestions on carbon reduction pathways. Stakeholder Workshop and Scenario Development: Stakeholders were informed of the market context, policy drivers and technology trends. Several what-if

scenarios were developed with Don's management team to allow options to be compared (e.g. how do you trade off improvements to energy security vs a rise in energy costs?). Collective agreement was obtained on what Scenarios were to be assessed. Outcome Northmore Gordon helped DON consider their 10 year carbon and energy goals, and developed a tool that can model energy costs and carbon emissions into the future. This tool helps DON make strategic decisions based on different scenarios that reflect changing conditions including markets, government policy, technology and other conditions; see below. Business as usual Balanced change Low carbon future High resilience Model Inputs: Business growth rate Supply reliability target Energy efficiency plans impact Electricity, gas and carbon offset projected market price Model Outputs: Financial impact (relative cost of energy, required CAPEX, NPC [net present cost]) Optimal employment settings for existing CHP plant Optimal mix of quantities of on-site CHP, on-site solar PV Solar Photovoltaic , purchased green electricity and purchased carbon offsets Level of grid dependence Quantity of carbon offsets required Reliability outcome. Do you need help developing a decarbonisation strategy? Take our quick health check to determine your Energy and Carbon Performance potential. Established in 1947 in Castlemaine, Victoria, DON is one of Australia's largest smallgoods manufacturers, producing premium hams, bacon, salamis, and continental products. Industry Food & Beverage Location Castlemaine, Victoria 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 CO<sub>2</sub>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