



All Energy Pty Ltd

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ENERGY STORAGE

INTEGRATING SOLAR PHOTOVOLTAIC TECHNOLOGY WITH BATTERY STORAGE AT ABATTOIRS

Client: Australian Meat Processor Corporation LTD

Scope: The techno-economic modelling of integrated PV-battery systems to assess the feasibility of energy storage technologies for processing facility power loads.

All Energy developed a model for a “typical facility”, to identify key assumptions for the work, such as scale, availability, utilization, and reliability and balances of plant, to allow a levelised \$/kW comparison. Global best practice was reviewed for battery storage and meat processing power loads, with the inclusion of additional drivers (i.e. ease of maintenance/operation, safety) and constraints (i.e. budgetary and or space restrictions, lack of industry knowledge).

The analysis modelled effective power delivery and capacity for each technology allowing for key technology characteristics (i.e. efficiency losses, depth of discharge, predictive modelling of lifetime operating and maintenance costs).

This included a sensitivity analysis on any “red flags” from a technical, safety, environmental and financial hurdle perspective.

