

Energy + Water Management Systems

AMPC 2021-1020 Energy + Water Management

Project Code
2021-1020

Prepared by
Camilo Torino & Paul Gibson

Date Submitted
05/04/2024

Disclaimer The information contained within this publication has been prepared by a third party commissioned by Australian Meat Processor Corporation Ltd (AMPC). It does not necessarily reflect the opinion or position of AMPC. Care is taken to ensure the accuracy of the information contained in this publication. However, AMPC cannot accept responsibility for the accuracy or completeness of the information or opinions contained in this publication, nor does it endorse or adopt the information contained in this report.

No part of this work may be reproduced, copied, published, communicated or adapted in any form or by any means (electronic or otherwise) without the express written permission of Australian Meat Processor Corporation Ltd. All rights are expressly reserved. Requests for further authorisation should be directed to the Executive Chairman, AMPC, Suite 2, Level 6, 99 Walker Street North Sydney NSW.

Project Description

To achieve the ACC group's vision, ACC are undergoing an entire site wide innovation program to debottleneck the process (from livestock receivals to cartons leaving the facility), reduce waste leaving the site (including being more resource/services efficient), and to change the nature of the work to both reduce the per head/hour labour requirement (as a KPI) and ensure that those resulting jobs are designed in a way to be open to both a wider physical stature workforce and hours of operations that suit varying employment demographics within the labour draw pool. This project will purchase and install meters on all incoming services and discharge points, where they are currently missing. This purchase may occur progressively over the three-year period of the project. The insights gathered from this project will both inform ACC (and AMPC) as to the various ways to reduce (wastage) and optimise the use (scheduling) of services across the entire ACC group of businesses.

Project Scope

1. Select, purchase and install meters.
2. Configure data collection and reporting system
3. Intense review for a 3-month period
4. Quarterly high-level review for a total project monitoring period of 3 years.
5. Quarterly meetings with AMPC to review use points and opportunities for improvement R&D to be undertake either (or by both) by ACC and AMPC

Project Objectives / Outcome

Objectives:

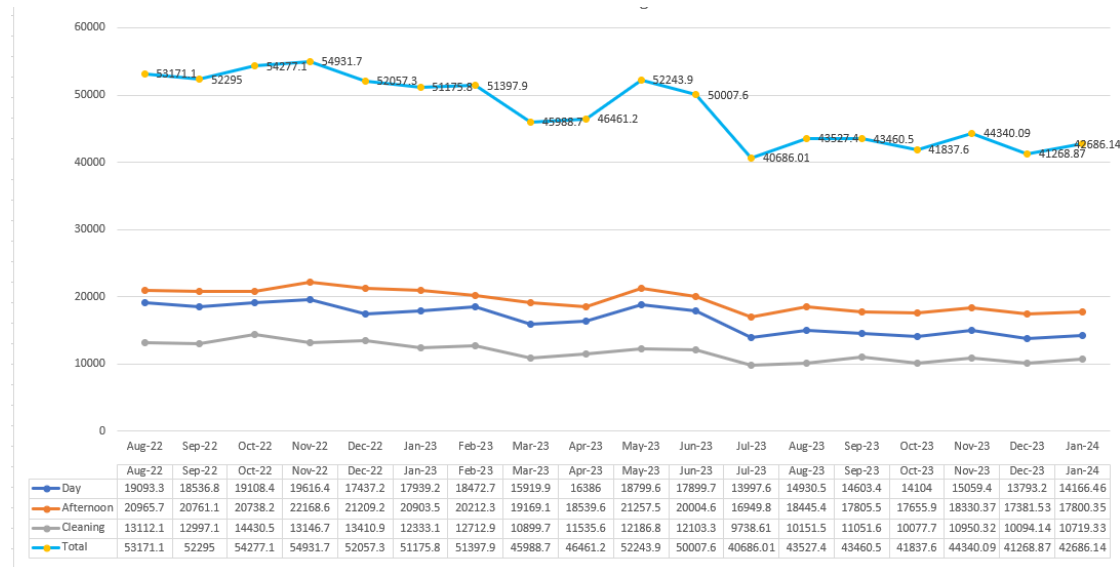
- (input objective) install digital meters on all service incoming and discharge points with reporting back to a single location. The ISO50001 framework will be one of the guides to ascertaining the energy metering component of this scope.
- (output objective) Insights developed that identify leakage/waste, schedule changes and future distribution investments required, by both ACC (private good) and AMPC core R&D activities (public good)
- Obtain data to inform environmental performance reporting for the red meat processing sector as part of AMPC Environmental Performance Review and Industry Sustainability Frameworks.

Benefit for Industry

Benchmarking opportunity for the sector to present objective data in meat processing factory energy (power) and water consumption. The data sub-set becomes a component of the master set to inform higher levels of environmental performance reporting for the red meat processing

Water Management Study

Chart #1 plots factory water usage over the period of the project to Jan 2024 (18 months) and tracks the downward trend of water consumption informed by the objective data in real-time 24/7 from digital meters. Achieved by combining and activating reduction strategies at department / section levels over time.



Power Management Study

Chart #2 plots factory power usage over the period August 2024 to April 2025 (9 months) and tracks power consumption across 6 zones informed by the objective data in real-time 24/7 from digital meters. With the availability of real time data to assist development of reduction strategies at department / section level will deploy over time.

