

processpartners

Food & Beverage Manufacturing Specialists

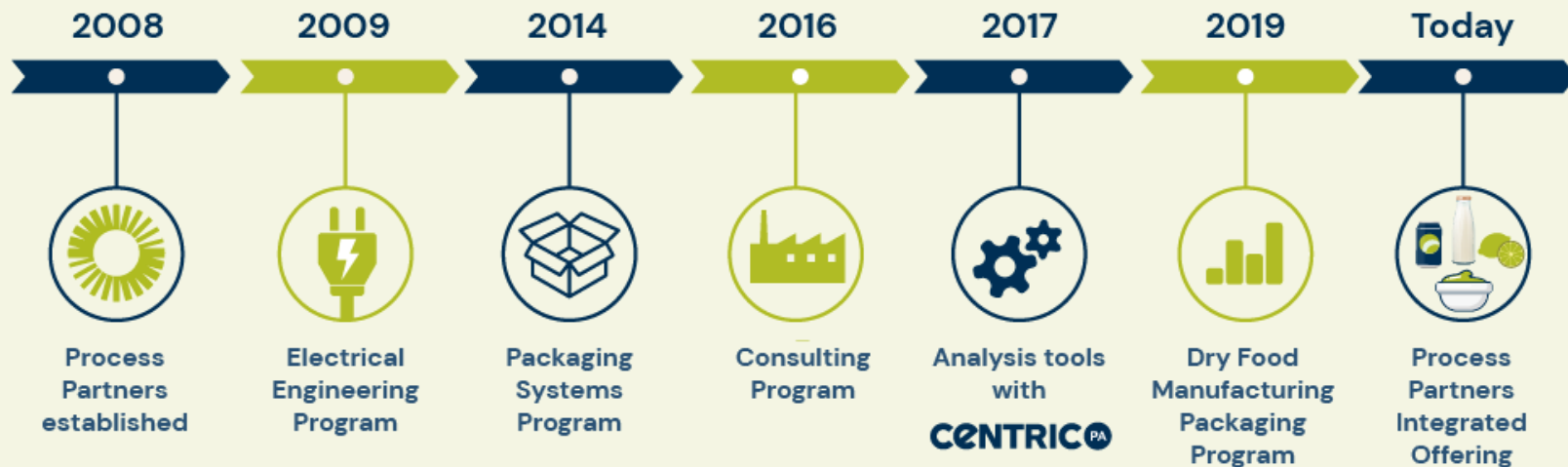


Company Profile

OVERVIEW 2024

Process Partners Overview

- A team of experienced food industry specialists
- Advising, conceptualising, designing, building & optimising food manufacturing plants
- Key markets in Australia, NZ & Asia
- Offices in Melbourne, Sydney
- Engineers across VIC, QLD, NSW & TAS.



Our Engineering Services

Plan

- Feasibility studies
- Cost benefit analysis
- Design basis modelling
- Site master planning
- Operational systems deployment
- NPD to plant start-up
- Design packages (process, packaging, mechanical, electrical, utilities)



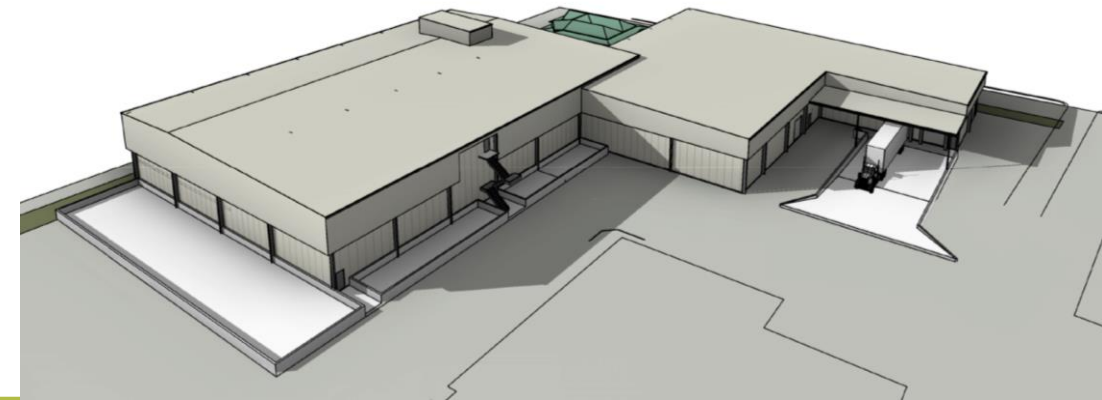
Build

- Independent Project Management
- OEM and Contractor management
- EPC and EPCM commercial models
- Resources to complement your team
- Line integration of multiple vendor equipment for bespoke and best-in-class solutions
- Ability to balance cost performance and deliver tailored solutions
- Incorporate digital technology
- Full insurances

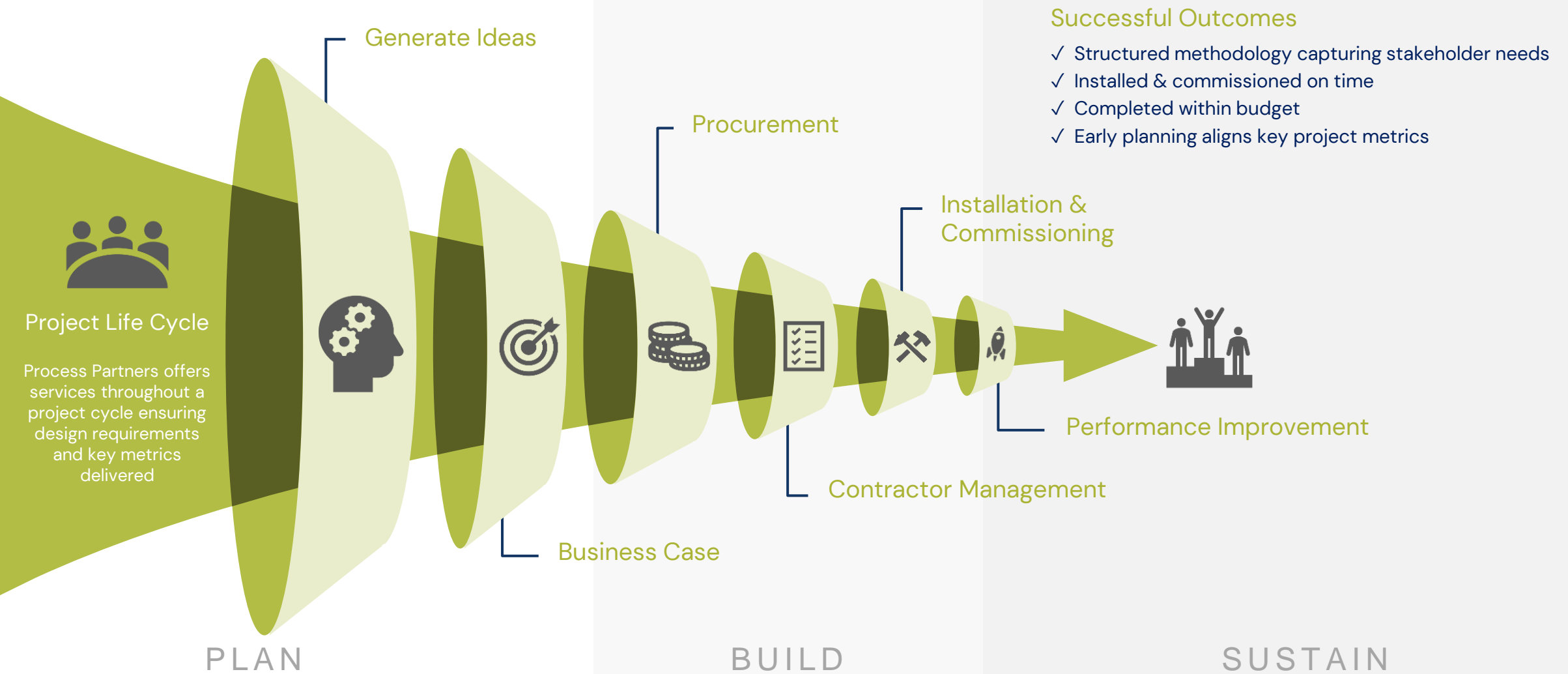


Sustain

- Asset, line & facility evaluations
- Specific safety, cleaning, OEE & membrane filtration assessments
- Managed improvements programs
- Waste and yield assessments and improvements
- Quality improvements



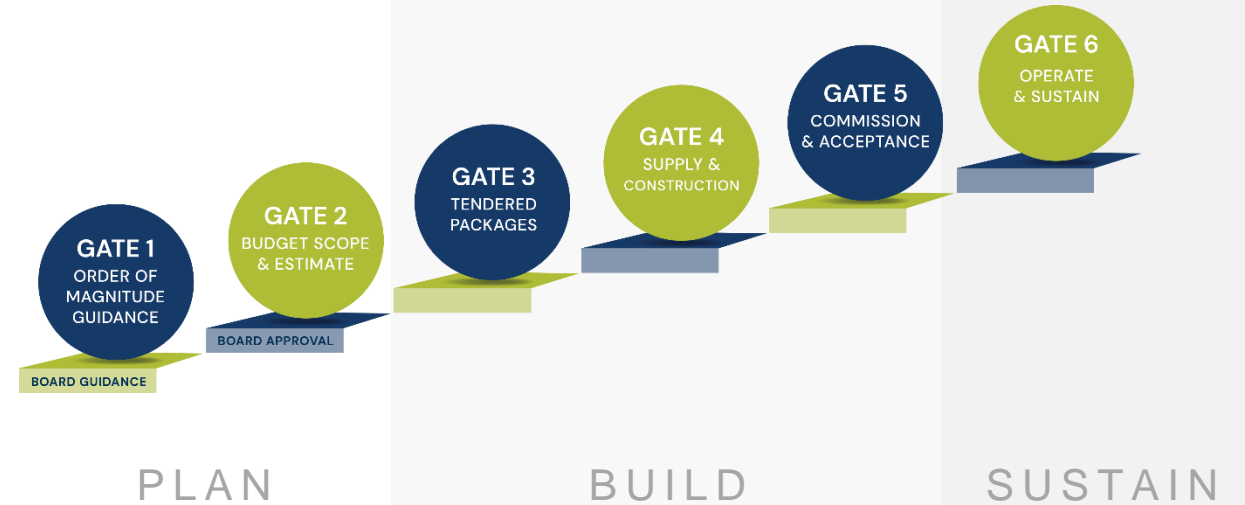
Managing a Project lifecycle



Plan > Build > Sustain

Staged Project Delivery:

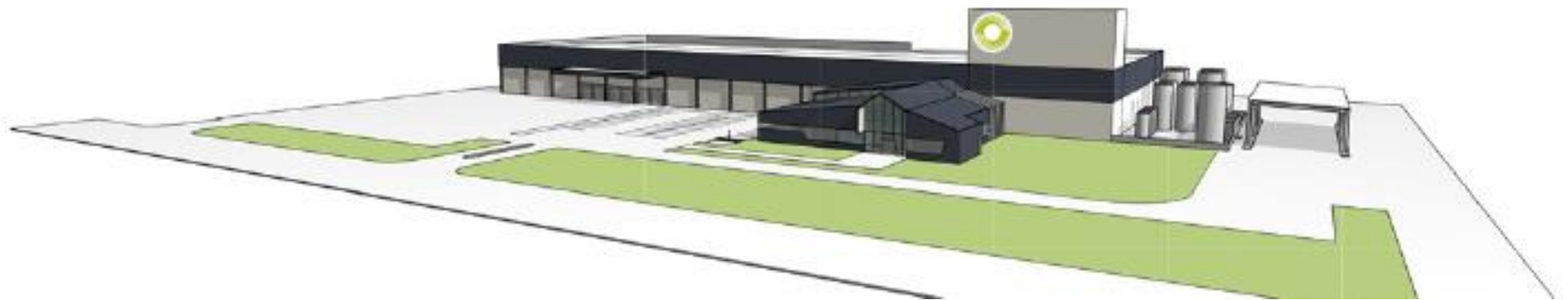
- Structured program to deliver project in stages
- Aligns project deliverables to stakeholder inputs and expectations
- Controlled expenditure to each gate
- Capital spend linked to approval stages
- Key documentation levels to each stage



Plan – Our Collaborative Approach

Facility Planning Capability & Experience

- Structured site development method to efficiently capture and plan major changes or developments
- Plant “Design Basis” modelling to optimise a plant configuration based on a set of operational inputs and outputs
- Consultation with stakeholders for concept development & commercial guidance
- Structured gates for scope & budget approval



Build – Our Project Delivery

Engineering Capability

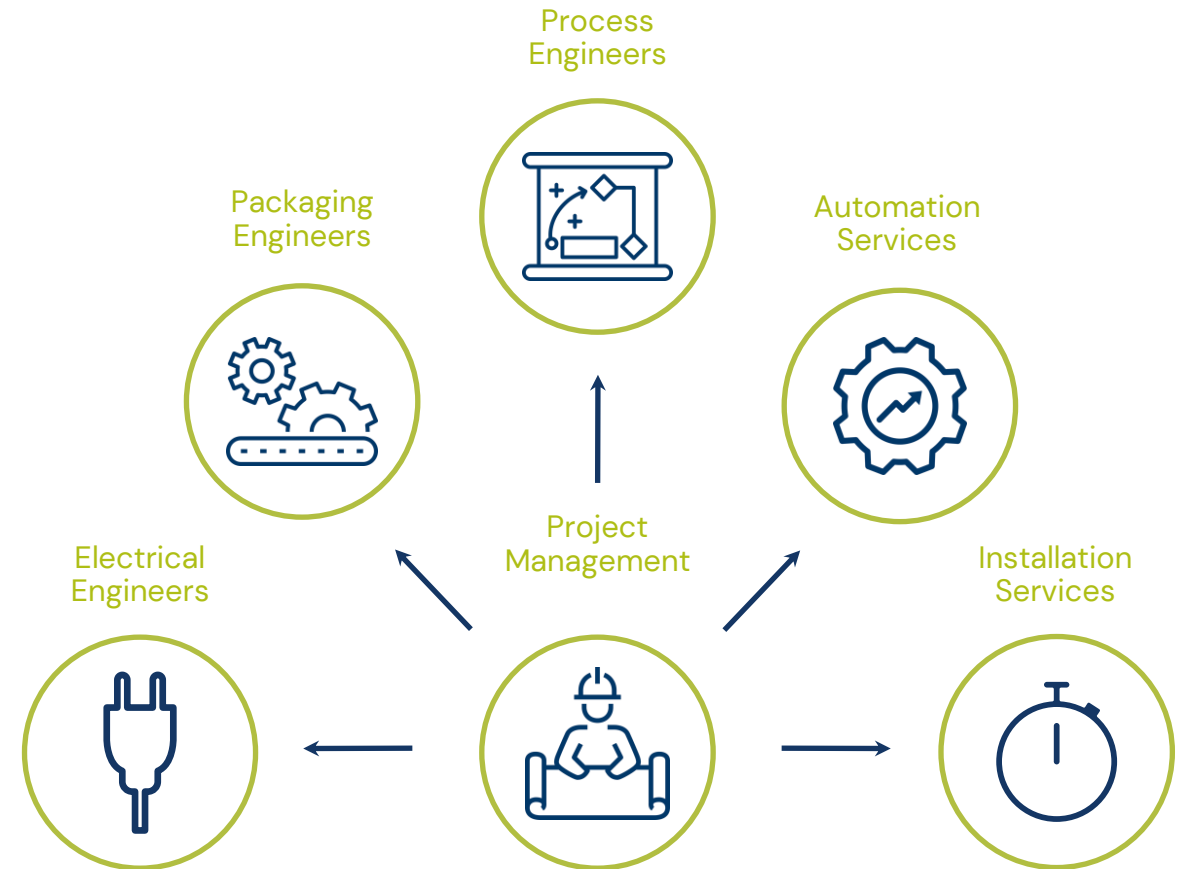
- Multidiscipline in-house team
- Established safety and project management processes
- Scale to deploy across multiple projects and food types

Project Types

- Complex brownfield installations
- Greenfield projects
- Process & packaging improvements and upgrades

Project Flexibility

- Not constrained on equipment selection
- Delivered with multiple contract arrangements
- Engineering & business objectives aligned



Sustain – Our Performance Services

Solutions with software tools

- CIP Analysis
- OEE and Line Analysis
- Safety & Machinery Assessments

Standardised Engineering Solutions

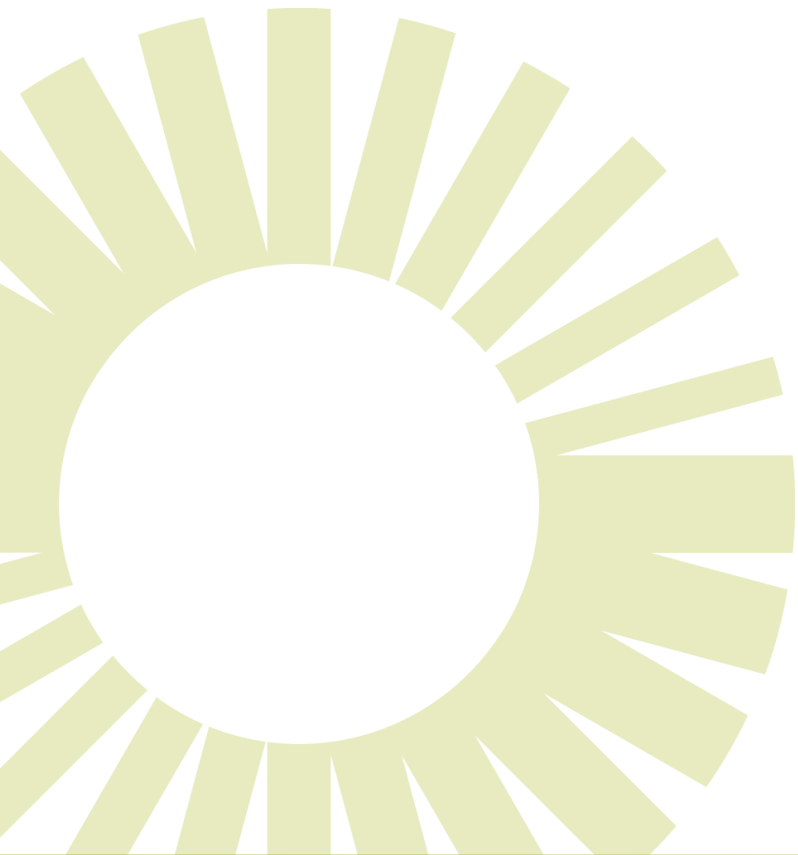
- Asset Health & Benchmarking studies
- Facility Modelling and What If Analysis
- Mass & energy balance, yield analysis

One off Services

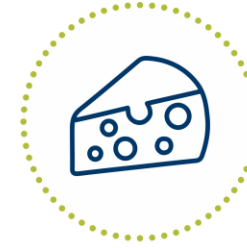
- Quality defect resolution
- Operational assessment
- Tailored improvement plans



Industries We Serve



Baking



Dairy



Beverage



Chocolate



Fruit/Vegetable



Confectionery



Snacks



Smallgoods



Beer/Cider



Key Industry Capability
and Experience

Process Capability & Experience

Process Engineering

- Detailed process design – utilising in-house food and beverage subject matter experts
- Detailed vendor selection and management process, including process OEM suppliers
- 3D drafting and design validation
- Site installation management
- Process commissioning
- Specific food and beverage troubleshooting and optimisation experience
- Standard solutions across key food industries
- Detailed OEM equipment knowledge
- Utilities design & instrumentation knowledge



Process Capability & Experience

Liquid and Dry Process Technologies

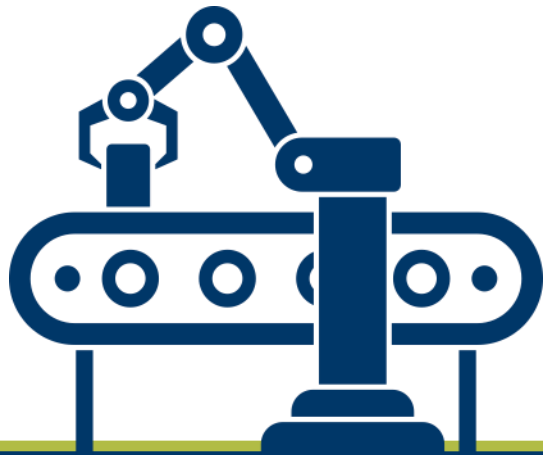
- CIP & bulk chemical systems
- Separation systems including centrifuges & membrane filtration
- Specific Dairy, Brewing and Beverage solutions
- Mixing, blending and batching solutions
- Materials handling
- Novel processing technology development including plant-based food technologies
- Thermal processing including cookers, coolers and pasteurisation systems



Packaging Capability & Experience

Packaging Engineering

- Packaging modifications for automation
- One / multi touch packaging
- Two-piece packaging modification
- RSC to wraparound cost review
- Packaging, palletising & container packing optimisation
- SKU packaging consolidation



Packaging Technologies

- Depalletising / denesting & unscrambling systems
- Fillers (bottles, cups, bags, trays)
- Conveying systems
- Multihead weighing & horizontal / vertical form fill & seal
- Flow wrappers & thermoforming machinery
- X-Ray, vision inspection, inkjet & laser coding systems
- Pick and place systems
- Multi-packers & case packers (5 – 60cpm)
- Palletising systems / cobot technology
- AGV systems

Electrical and Controls Capability & Experience

Electrical Engineering

- Project management including sub-contractor and installation management
- Problem solving and solution development
- Design & drafting:
 - Power distribution
 - Motor control centres
 - Field control panels
 - Plant and switch room layouts
- Integration into existing control and power systems
- Switchboard replacements

Electrical Technologies

- Experienced in common control platforms
- Plant level data networks, including modern and outdated network protocols
- Motor control for high efficiency operation
- Safety circuit design
- Uninterrupted power supply systems
- Power factor correction units
- Hazardous area design solutions





Recent Project Examples

Cut & Wrap Cheese Production Facility



CALENDAR
CHEESE COMPANY 

Cut & Wrap Facility (Cheese)

Scope:	Brownfield site – facility design, building management, packaging & utilities
Activities:	EPCM Project delivery
Project Lead:	Process Partners
Project Value:	\$0.5M

Key Points:

Project Brief – Design a brownfield site for a new cheese cut and wrap line allowing for future product ranges

- Worked with proposed site designs including low, medium and high care areas with designated red line access. Specified required equipment and recommendations for procurement. Managed onsite contractors for civil works, mechanical and electrical.

Outcome – New plant installed and now in operation.

Resources – project management, packaging and services design engineers. Multidisciplinary team working together to ensure optimal outcome.

Bakery Relayout and Upgrade



Bars & Biscuit Baking Site

Scope: Brownfield site – Redesign site flow and layout
Activities: EPCM Project delivery
Project Lead: Process Partners
Project Value: \$0.5M+

Key Points:

Project Brief – Split bakery into a Gluten and Gluten Free sites to enable simultaneous running

- Dedicate production lines, reduce double handling and streamline the overall site flow.
- Presented options, designed bespoke cooling tunnels, completed civil works, relocated and reinstalled equipment with management of mechanical, electrical and services trades.

- Outcome – successful installation and operation. Growth exceeded initial plans and new design has allowed 60% capacity improvement.

Resources – project management, services and packaging engineers. Multidisciplinary team working together to ensure optimal outcome

Greenfield Kombucha Plant



Brewing & Bottling Plant (Kombucha)

Scope: Greenfield site – facility set up, Process, Packaging, Utilities
Activities: EPCM Project delivery
Project Lead: Process Partners

Key Points:

Project Brief – Design a green field site for a new process and bottling line

- Worked on proposed solutions and strategies to meet projected volumes.
- Design, specify, procure, install and commission a new Kombucha process plant, fermentation room and 100bpm glass & PET bottling line

Outcome – New plant installed and in operation. Growth exceeded plans with further expansion implemented.

Resources – project management, services, process design and packaging engineers. Multidisciplined team working together to ensure optimal outcome

Mandarin Line Upgrade & Reconfiguration



Mandarin Grading & Pack Line:

Scope: Project Manager & Technical Lead
Project Lead: Customer

Key Points:

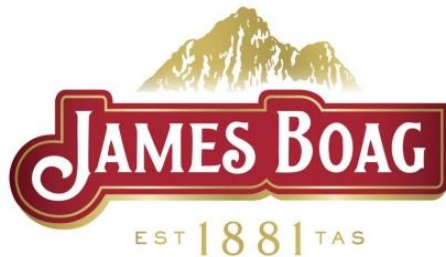
Project Brief – Validate project plan and budget
PP Response – Understand customers requirements, work on proposed solution and formalise budget to include all requirements.
Complete report pre-capex to ensure board understand scope of project and budget is validated.

Outcome – Project approved by board as single

largest project customer has completed in 5 years.
Project delivered with us assisting in overall installation management, commissioning and to complete line sign off.

Resources – Overall project management and technical lead working closely with site stakeholders.

Relocation & Line Upgrade



Major Brewery – Line 1 Packaging Line Upgrade

Scope: Bottle filler replacement
Project Lead: Customer

Key Points:

Project Brief – Replace existing glass bottle filler with a new filler

- We offered an alternative solution to the clients brief which saved capital, time and increased output.
- Designed, scoped, and managed reuse of existing packaging machinery located on a redundant line.
- Included a glass filler, 2nd labeller and conveyor integration.
- Vertical commissioning with optimal OEE achieved.
- We were responsible for the project cost and the overall performance.
- Managed local integrators, civil contractors, cranes and overall installation and commissioning.

New Craft Beer Can Line



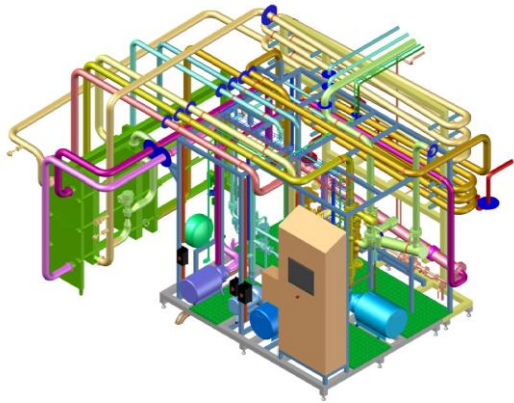
Little Creatures – Geelong – New Craft Can Line

Scope: Project Management, Design Lead & Local Site Management
Project Lead: Customer

Key Points:

- Project Brief – Install new craft can line within existing packaging hall
- Response – Complete site layouts, process design, work with customer preferred suppliers
- Installed beer lines, depalletiser, rinser, filler, 6 pack machine, cartoner, printers and level control.
- Outcome – Filling machine could not meet the customers' quality specification (High dissolved oxygen). Process Partners diagnosed, designed and modified the filler to enable compliance. This was the only installation of this filler brand able to fill with low dissolved oxygen results in Australia.
- Resources – Project Management, Packaging, Process and Electrical engineering.
- We managed multiple equipment suppliers, local integrators, civil contractors.

Cider Modifications and Upgrade



Cider Process Upgrade

Scope: Modify existing plant for cider processing
Activities: Part EPCM, Part turnkey project delivery
Project Lead: Process Partners

Key Points:

Project Brief –

- Modify Cellars and add equipment for Cider processing.
- Designed and supplied new Cider flash pasteuriser.

Resources – project management, services & process design, commissioning.

Multidisciplined team working closely within an operating site to complete intrusive project works

Achieved plant performance specifications

Little Creatures Brewery – Cellar Upgrade



Little Creatures Brewery Geelong

Scope: Process upgrade, downstream of brewhouse
Activities: EPCM Project delivery
Project Lead: Process Partners (Mechanical & Electrical)

Key Points:

Project Brief – Upgrade brewery to increase production from 110,000 HL to 220,000 HL per year

- Managed upgrade including – budget, design, specification, procurement, install and commission

Plant Installed:

- Malt handling with 3 Speciality Malt Silos including unloading station
- Sales Yeast Tank and load out system

- Beer Loading & Unloading System
- Bulk Caustic & Caustic Blending System
- Yeast Propagation Tanks
- 10 x 800HL Uni Tanks into new manifolds which incorporate existing Cellar Tanks
- 3 x Bright Beer Tanks
- DAW and Ingredient Dosing Upgrades

West End Brewery – Site Upgrade



Major Brewery – Site Upgrade

Scope: Extensive Process upgrade across most brewery processes
Activities: EPCM Project delivery
Project Lead: Process Partners (Mechanical & Electrical)

Key Points:

Project Brief – Efficiency Upgrade across entire plant
Managed upgrade including – budget, design, specification, procurement, install and commission

Plant Installed:

- Automation Upgrade – Complete Code Re-write
- Automated Fermentation and Maturation Cellars
- Upgraded Bright Beer
- Bulk Chemical and Blending System
- Filtration room incorporating cross flow membranes, CSS, Carbonation, Centrifuge and Ingredient Dosing
- Beer Delivery to Packaging
- CIP Set Upgrade
- Brewhouse ingredient dosing incorporating bulk sugar & Tetra Hops
- Additional Electrical support to other suppliers for new Brewhouse and Malt Handling

Brewdog New Brisbane Plant



BREWDOG



New Greenfield Brewery (Brewdog)

Scope: 25hl brewhouse, Cellars, Bright Beer, Can line, Keg line
Activities: Project Management & Local Sitework for Overseas manufactured line
Project Lead: Lehui

Project Structure:

Scope: Local design review, compliance support & management of Chinese supplied Brewhouse, cellars and packaging line

PP Project Actions:

- Equipment specification compliance
- Installation
- Site supervision – including safety management
- Integration to services and utilities



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