

engineering & project delivery

providing the power, driving progress



Who is **deta**

Our team of engineers and project managers are experts in process improvement, project delivery services, energy efficiency, decarbonisation, and water management.

Working with clients across New Zealand, Australia, and the Pacific, we have helped businesses develop strategies, business cases, and implement capital projects to improve efficiency and reduce ongoing energy and operational costs, across all sectors.

DETA can offer flexible solutions tailored to your needs. Whether you are looking for a full industrial project delivery service, or assistance with part of an existing project, the DETA team can deliver the precise level of assistance you require, whether it's extensive or minimal.

We have engineered several 'first in sector' projects in refrigeration, water recovery, and energy generation. With a particular strength in project delivery we can assist with identifying exactly what parts of the process need focus to create gains in cost and energy savings. Discover more about our work and the clients we have collaborated with.

Our Mission
Remove
2 million
tCO₂
emissions
EVERY YEAR
BY 2030

www.deta.global



Project Engineering & Delivery

From business case to completion

Whether you are looking for a full industrial project delivery service, or assistance with a part of your project – such as procurement, contracts or site health and safety management, DETA has the solution. We have the expertise to provide as much support as you require.

Front-end Support

- ▶ Concept & feasibility studies
- ▶ Business case development including capital cost estimation
- ▶ Design co-ordination & design management
- ▶ Technical specifications for procurement
- ▶ Technical & commercial bid evaluations
- ▶ Contract preparation, contractor prequalification & selection

Delivery Phase

- ▶ Onsite contractor management
- ▶ Project scheduling
- ▶ Cost tracking
- ▶ Change management & contract administration
- ▶ Turnkey if requested by the client
- ▶ Commissioning planning & supervision
- ▶ Troubleshooting

Brownfield Site Services

- ▶ Capital project plan support
- ▶ Reliability engineering
- ▶ Shutdown planning
- ▶ Building compliance
- ▶ As-building
- ▶ Process control, automation & networking upgrade design
- ▶ Water & energy savings assessment & implementation

Delivery of
projects contributing
more than
60^{GW}
of **energy savings**
across our client
sites

What we do

We are a team of chemical, process, mechanical, and project engineers based across New Zealand and Australia. When we work with clients, our starting point is to look through the lens of how we can collectively achieve smart outcomes. We have been working alongside many of our customers, and their own in-house teams, for **more than 10 years**, delivering engineering and project delivery projects. We can tailor bespoke packages of support and solution focused projects for customers across all sectors.

Other clients we have worked with:



Customer Projects



Alliance Group
Project Management

NZL

DETA has taken responsibility for the delivery of many technical productivity improvement projects across the Alliance Group. Initially focussing on energy improvement projects, such as water recycling and hot water management projects, DETA has also delivered major capital projects including deaerator and gearbox replacements for major equipment. DETA are now project managing two large biogas projects for Alliance.



Westland Milk Products
Shutdown Management

NZL

There are few activities on the maintenance calendar that pose a bigger risk to your production than shutdowns. They consume resources, create downtime, and are often plagued by over-runs and restart issues due to poor planning or scheduling. Shutdown Management is key to executing a successful and efficient shutdown programme of work through an integrated process between maintenance works and project works. DETA delivered a shutdown management service to Westland Milk Products during the 2018 winter shutdown and delivered significantly improved outcomes from previously unplanned shutdowns.



Ravensdown
Tank Replacement

NZL

DETA provided a turnkey service to deliver two waste water dosing systems including the replacement of a HSNO certified caustic tank. Both installs required integration with existing plant operations and were delivered with minimal plant disruption. The designs both successfully neutralised site acidic waste water, reducing the impact of the chemical plant on the surrounding environment. Due to the project's success DETA are currently delivering a sulphuric acid tank to HSNO and API standards, with another two tank projects likely to go ahead in the future as part of our ongoing partnership with Ravensdown.

Customer Projects



Talleys Ashburton

As-Building Services

NZL

DETA provided full as-building services for Talley's Ashburton site as part of scoping their expansion project at site. To minimise the amount of additional building required, DETA as-built the existing production lines and site layout in AutoCAD. Talley & DETA teams used the design platform to conceptualise alternative layouts of the lines, looking for different ways to optimise the layout for operational improvements and scale up the production line. The theoretical layouts were analysed for improvements in variables such as – energy efficiency, improved productivity, better use of space, opportunity for scaling production, and efficient plant operation by task, for example separation of wet-dry, clean-dirty areas. Using the CAD plans, different layouts were tested, and changes quickly made, saving time and resources in the planning stage. DETA then provided planning assistance to the site.



Westland Milk Products

Building Compliance

NZL

Our experienced consultants can take the complications out of understanding and meeting your legal building compliance obligations. Whatever your issues we can develop a bespoke offering balancing compliance requirements and the capital cost of implementation. Compliance can be a challenge – DETA can use our technical knowledge, industry insights and ability to draw upon strong council relationships to help make compliance a simple and easy process. At Westland Milk Products, DETA is supporting Westland's internal facilities management team to coordinate with local councils and manage their expectations, develop and deliver on forward project plans, all with the intent of achieving compliant buildings across Westland's sites.



ANZCO Foods

Mechanical Design & Project Management

NZL

DETA was commissioned to provide the mechanical design and project manage a \$3.5M hot water upgrade. Key aspects of the work undertaken included concept design, specifications, and drawings (tank sizing, pipework design, heat exchanger and ventilation integration), risk analysis and health & safety management, coordination of contractors, equipment selection and specification, procurement management, supervision of installation, commissioning, and post- implementation review.



Synlait Milk

Reliability Engineering

NZL

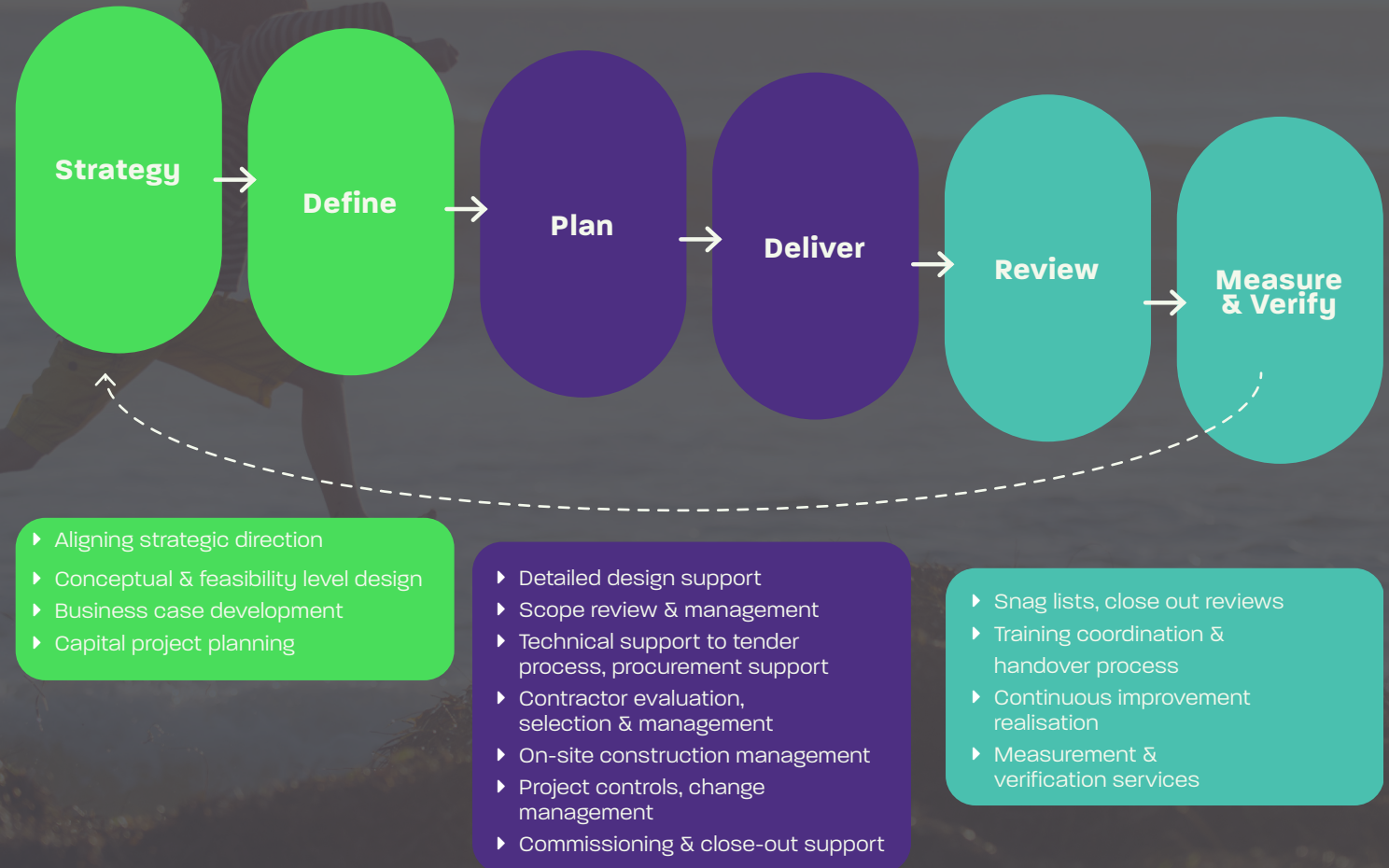
DETA has worked with several sites to deliver reliability engineering services, developing the connection between project and operation, and improving the longevity, operability and maintainability of the plant. At Synlait, DETA worked to coordinate the new lactoferrin plant into Synlait's existing reliability engineering systems. This required significant site time, and tight coordination with the Synlait team, as well as contractors.

What do you need help with today?

How our team power you forward

The DETA formula is to collaborate with clients and their onsite engineering teams, build on their knowledge and deliver best outcomes for the site. Our engineers will identify sources of inefficiencies and develop solutions to reduce or eliminate them, improving processes and reducing operating costs.

Innovation and fresh perspectives are the key to staying ahead of the curve today. DETA project delivery engineers have a commitment to creative problem solving and helping clients improve the efficiency of their operations.



Where to from here?

The DETA project delivery team are ready to power you forward to improved efficiency, reduced operating costs, and results.

We can develop a plan together to support your teams and deliver timely and cost effective solutions that improve your bottom line.

Our doors are always open for advice and discussion on all things engineering. Feel free to contact our team to discuss how we can help drive your business forward.



For more information
visit our website
www.deta.global

Aotearoa New Zealand



Chris Kolless

Head of Business
Development (NZ)

M +64 27 438 6672
chris.kolless@deta.co.nz



Mark Davis

Team Lead - NZ Solutions

M +64 27 296 6228
grace.sandston@deta.co.nz

Australia



Domenic Chiavone

Head of Business
Development (AUS)

M +61 427 237 139
domenic.chiavone@deta.global



Bryce Smith

Team Lead - AU Solutions

M +64 27 827 8226
bryce.smith@deta.co.nz

Need help with more than project delivery?

Our team of engineers and project managers are experts in project delivery, process optimisation, decarbonisation, water, energy management, and sustainability. We have helped businesses across Australia and New Zealand for more than 10 years with long-term planning & strategies that create positive sustainability, net-zero solutions, and improve efficiency.

Aotearoa New Zealand

+64 3 338 8524
chc@deta.global

Locations

- ▶ Christchurch / Ōtautahi
- ▶ Wellington / Te Whanganui-a-Tara
- ▶ Tauranga / Tauranga Moana

Services

- ▶ Project Delivery
- ▶ Process Optimisation
- ▶ Process Engineering
- ▶ Design Management
- ▶ Carbon Strategy
- ▶ Energy Management
- ▶ Sustainability Strategy
- ▶ Water & Wastewater Reduction

Australia

+61 427 237 139
australia@deta.global

Locations

- ▶ Melbourne
- ▶ Sunshine Coast

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Sustainable
action for a better
tomorrow