



# feedback

issue 7 march 2005

editorial

## Combining strengths

With each issue of Feedback we present a variety of recent projects in the food and beverage marketplace. These stories illustrate our ability to provide a range of services that complement our clients' project capability.

By combining our strengths with client project teams, we optimise engineering resource and "fill the gaps" in project knowledge. Where we have been working on a long-term basis with clients, the

relationship enables us to minimise inputs and reduce project costs, utilising our collective knowledge, resources and assets to their full potential.

The articles in this issue highlight the value of the collaborative approach, something that Beca Food & Beverage can offer clients in abundance.

Rob Ross  
New Zealand

John Boers  
Australia



### contents

Combining strengths  
Providing diverse services to complement clients' project capability

"Well Prepared" Italian food  
Designing process and control systems concurrently

Global client, international project team  
Balancing corporate standards with regional requirements

Building on beer relationships  
Innovative design to increase flexibility

Long-term relationships add value  
Meeting stringent requirements for meat packaging





## "Well Prepared" Italian Food

Beca Food & Beverage expertise in process and control systems design contributed to the successful completion of Saizeriya Australia's plant automation in Melton. This major food manufacturing plant employs 80 staff and supplies hamburgers, sauces and soups to Saizeriya's 750 Italian-style restaurants in China and Japan. Beca's role included process design, plant and equipment procurement, construction management, mechanical and electrical installation supervision, and the development and commissioning of control systems.

The A\$50 million project combined process design with control system design and implementation.

With the benefit of significant previous experience, Beca delivered a cost-effective and functional solution. A dedicated project team designed the process and control systems concurrently, creating a highly efficient solution. Beca also provided 24-hour support during commissioning and initial production, with systems engineers continuing with the on-site integration of systems for several months.

Saizeriya benefited from Beca's multi-disciplinary resource, and continues to utilise Beca Food & Beverage for ongoing work at the Melton site.

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## Global client, international project team

With over 100 brands General Mills is one of the world's largest food companies. Beca has delivered a number of key projects for General Mills, including plants in the Chinese cities of Nanjing, Guangzhou and Shanghai, strategic studies in Australia and plant relocation in New Zealand.

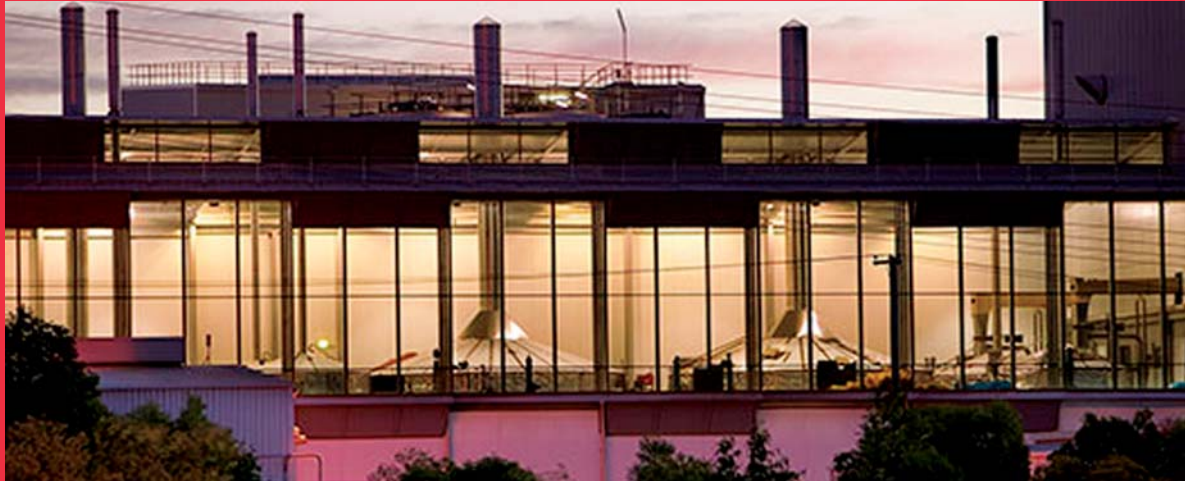
"While working across these regions, we maintain constant communication with our client" says Mike Kelly, General Manager of Beca's Auckland Industrial team. "We visit General Mills' US head office at least once a year to participate in discussions between them and our partners AMEC, who works with General Mills in America. The benefit of this regular contact is that Beca can balance the client's own corporate standards with regional requirements in the Asia-Pacific region".

An example of this is in China, where Beca is experienced at working with local authorities and contractors and has local staff with local knowledge that is of real benefit to an international client. Developing brands and creating new products requires facilities that can deliver to a consistent worldwide standard. "International standards are critical in these plants, but facilities must be appropriate for the local environment and workforce," says Mike.

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## Building on Beer Relationships

Recent expansion of Carlton and United Breweries' (CUB) Yatala brewery in Queensland is an example of how Beca's innovative approach can deliver on the most complex of projects.

CUB engaged Beca to develop the civil and structural design for additional brewhouse and process buildings, part of a \$175 million upgrade of its Yatala brewery. This expansion has allowed annual capacity to expand from 230 million litres to 450 million litres.

Producing an innovative design within budget and following a strict time frame were key success factors. "The expansion of Yatala is about more than just increasing size. It is about increasing flexibility - flexibility in being able to meet the changing tastes and needs of our consumers and customers," says Trevor O'Hoy, Fosters' President and Chief Executive. "Beca has been working

with us for 35 years and the trust we share expedited the process," says Philip Browne, National Manager - Major Projects.

With over a dozen brewery projects behind them, the Beca team had plenty of experience to translate client needs into a functional design.

One of the most challenging parts was designing a practical solution for transporting the 400 KL fermenter vessels from Sydney to Brisbane. The vessels were lifted over a 24m Kent cellar wall, transferred to a low loader and taken to Sydney wharf to be placed on barges and towed to the Logan River.

The brewery is now equipped with a new twin-stream brew house and mill tower, malt and spent grain silos, a yeast propagation and transfer building, a new process building, a new cellar with fermenters from the Kent brewery, a new warehouse and packaging buildings, and an upgraded effluent treatment plant.

Beca has now been retained beyond the start of production to help complete the final phase - upgrading the process hall.

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20 new fermenter vessels enjoy the view on their journey from Sydney Wharf to the Logan River

## Long-term relationships add value



The Hellaby name has long been associated with quality meat processing. These days its pedigree lives on through a number of companies, including Auckland Meat Processors (AMP) located on an Otahuhu site that was once the Auckland City Abattoir. This plant is now New Zealand's largest multi-species facility with an annual kill of nearly one million animals.

Beca recently completed two projects with Hellaby's and is currently working on further expansion of the AMP Otahuhu facility.

"We can provide Hellaby's with a comprehensive range of services including planning, geotechnical, cost estimating and environmental management services, along with process engineering and project management support. This means that they can rely on Beca for all their technical and commercial project needs," says Andrew Wilson, Beca's Industrial Management Services Manager.

Enterprises. A meat preparation process utilising new technology means that fresh meat can be cut, packed and sorted at the plant, then delivered direct to supermarket shelves in Foodtown, Woolworths and Countdown stores throughout the North Island.

Beca's brief was to make sure that the building was completed on time, within budget and to the satisfaction of all parties involved. It encompassed strategic advice and concept review, plus project costing, implementation strategies and support for the resource consent process.

Beca continues to add to its meat industry expertise through a strategic relationship with industry specialist Byrne & Wanty. "Being able to call on B&W for highly specific meat sector knowledge means that we can contribute even more value to clients like Hellaby's," adds Andrew.

This latest project involves construction of a new meat processing and packaging facility to supply Hellaby's key client Progressive

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## Broadening our team



**Hayden Reakes** has joined the Melbourne team as a project engineer after recently completing an MBA. Hayden's experience

includes work in the dairy industry, both in New Zealand and Australia. He was involved with the building of the world's biggest AMF packaging plant at Fonterra's Edendale site and is currently working on jobs in the malting, sugar and pet food industries.



**Levi Bailey** is a graduate engineer who joined Beca Food & Beverage after completing his mechanical engineering

degree. He is currently working on redevelopment of a sugar refinery and extending capacity at a large malting plant.



**Martin Coates** is a project engineer with Beca Food & Beverage's Auckland team. With over 16 years in the UK

brewing industry, Martin was Asset Care Manager for Coors brewery in England and worked on energy saving strategies for Scottish distilleries. Martin is currently involved with projects for Lion Breweries, Fonterra and National Gas Corporation.



Auckland-based project engineer **Greg Wood** has extensive experience in modification and installation of materials

handling equipment within the Australian dairy industry. He has also been involved in technical sales and project management, working on packaging and logistics systems for GEA powder division SAPAC. Greg is currently working on a Greenfield project for General Mills in China.