

The background of the entire page is a photograph of an industrial facility. In the foreground, there are several parallel rows of blue metal walkways supported by vertical posts. On these walkways, there are numerous pipes, some of which are painted green. To the right, there are large, horizontal, cylindrical tanks with corrugated metal exteriors. In the background, there are large, white, rectangular structures that look like greenhouses or covered walkways. The sky is blue with some light clouds.

CNF OVERVIEW

CAPABILITY PROFILE

Company Overview

CNF & Associates is a multi-disciplinary engineering firm formed in 1981 to serve the process and manufacturing industries. CNF is a leading engineering company focussing on delivering the best outcome for the client.

Our activities cover a wide range of engineering services from consultancy through to full design and construct projects. CNF works in every state of Australia, in urban, regional and remote areas. We also undertake work in nearby countries including New Zealand, Japan, Indonesia, Papua New Guinea and Sri Lanka

At CNF we understand the value of innovation. It drives us to constantly strive for new and better ways of doing things. With the industry becoming ever more complex and competitive and customer requirements rapidly shifting, the ability to respond to customers' needs with agility is critical to remaining relevant in challenging markets. Innovation is ingrained in our culture.

We are leaders in best industry practice, and use technology, risk identification and innovation management frameworks to ensure that our engineering outcomes achieve excellence in product design, compliance to client and legislative standards, and best overall value for money.

QUALITY, ENVIROMENTAL AND WHS

Safety in Design applies to every phase in the project lifecycle. CNF undertakes comprehensive and practical preventive strategies that improve the working environment of every person impacted by the construction of a project. Design and planning are essential components in every construction project and we seek to eliminate occupational safety and health hazards at the design stage or to control the residual risks as early as possible.



FOCUS INDUSTRY SECTORS

We understand that our engineering expertise can be applied to all industry sectors, however we have given specific focus to the Water, Energy, Manufacturing and Renewable sectors of industry. We have appointed a senior CNF manager to head each of these sectors. This provides the necessary direction and governance to ensure that we are continually abreast of best practice in each of these sectors and that we have the necessary skills and resources to deliver the best outcome for the client.



Energy



Water



Renewable



Manufacturing

PROJECT DELIVERY

Our delivery strategy encompasses both self-perform and subcontract approaches. This approach maintains flexibility and provides best-for-project outcomes. We are committed to local industry participation as we know the benefits to local businesses and the local economy are important. The client benefits by keeping the knowledge base within local businesses and the project benefits from the knowledge that locals bring.

CNF recognises the need to embrace a culture of collaboration – creating an environment where individuals are encouraged to think outside the square to deliver innovation through design, procurement, planning and delivery.

Our systems, policies and culture encourage the identification and investigation of creative ideas throughout all stages of delivery, and enable innovation, value engineering and the application of lessons learned to positively impact on our delivery approach.

Processes we use to achieve our success include:

- Benchmarking to validate costs and ensure best value for the client
- Evaluation processes that assess and compare options to ensure we only pursue truly innovative solutions that provide genuine value for money
- Seeking input from stakeholders to ensure we are delivering a project that addresses the key stakeholder and community issues
- Drawing on experience and lessons learnt from the experienced individuals in our teams
- Accessing the lessons learnt knowledge banks from within our own organisations and networks

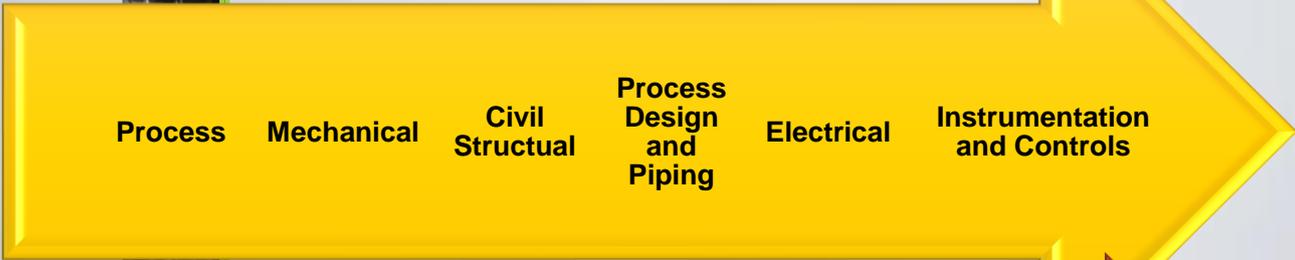


PROJECT DELIVERY

CONCEPT



CONCEPTUAL ENGINEERING AND DESIGN



DETAILED ENGINEERING AND DESIGN



PROCUREMENT CONSTRUCTION AND PROJECT MANAGEMENT



COMPLETION

PROJECT DELIVERY

DESIGN AND CONSTRUCT

EPC

EPCM

ALLIANCE

ENGINEERING SERVICES

DETAIL DESIGN

FEED & CONCEPT DESIGNS

RISK & COMPLIANCE

CONSULTING

CNF DISCIPLINES



CNF specialises in finding solutions to difficult, unusual and urgent problems which clients need addressed professionally and effectively. Our experience in a variety of industries and circumstances have developed a flexibility in thought and approach which we at CNF see as our hallmark.

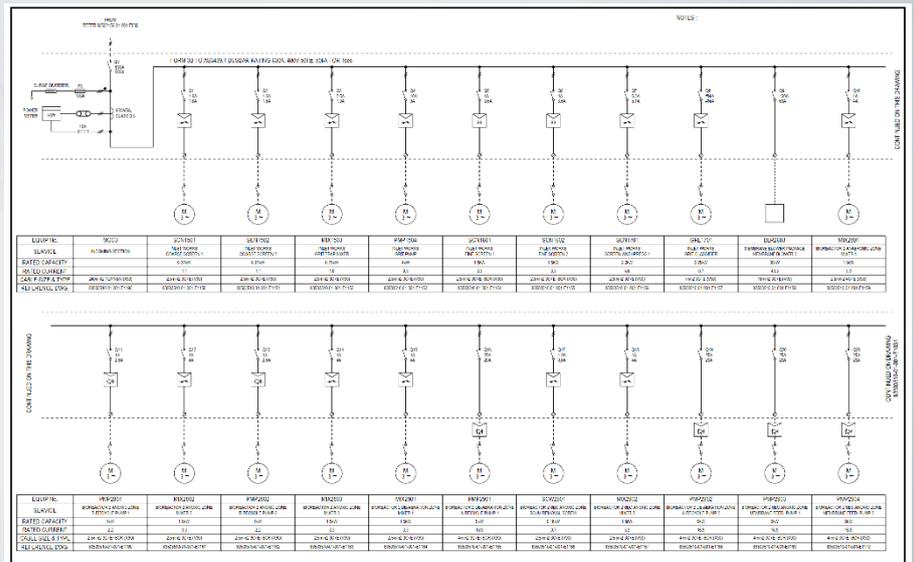
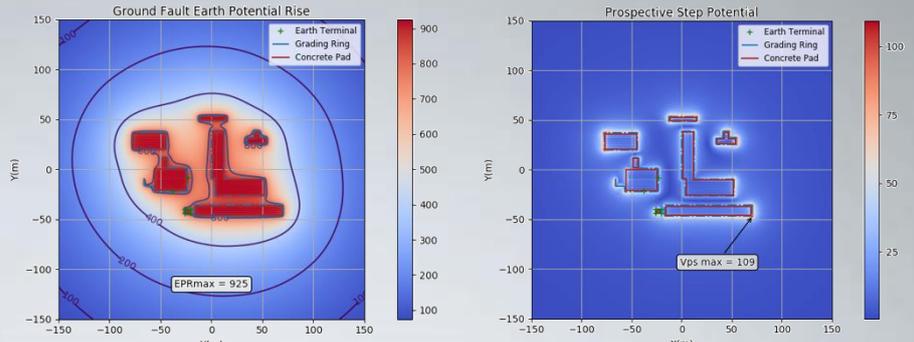
Our engineers mobilise quickly and efficiently to bring the right resources to the project to provide the answers and solutions our clients need.

Our experience in investigation, design, auditing and project delivery is the key to delivering the best outcome.

ELECTRICAL

One of CNF's greatest strengths is the ability to produce complex electrical distribution and PLC designs efficiently and accurately. Typical designs encompass several hundred drawings including single line diagrams, motor schematics, PLC IO drawings and loop diagrams. Rigorous procedures developed as part of our accredited ISO9001 quality assurance program ensure these are delivered without technical errors or inconsistencies.

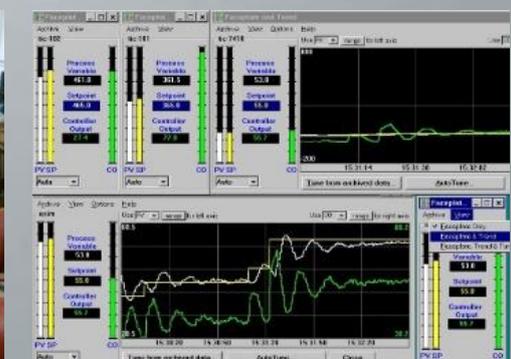
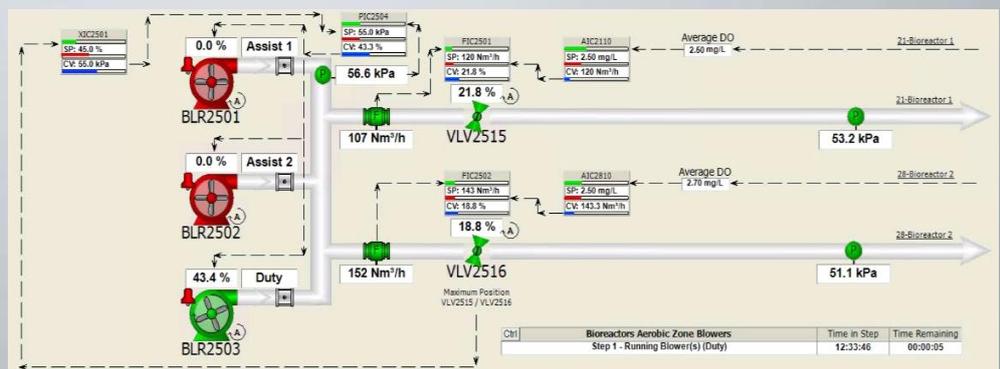
Designs are tested extensively for safety and constructability. In this example a HV earth fault is simulated in the substation supplying a wastewater recycle plant to ensure that prospective step and touch potentials are within safe limits.



CONTROL AND INSTRUMENTATION

CNF has extensive experience in implementing and optimising complex process control.

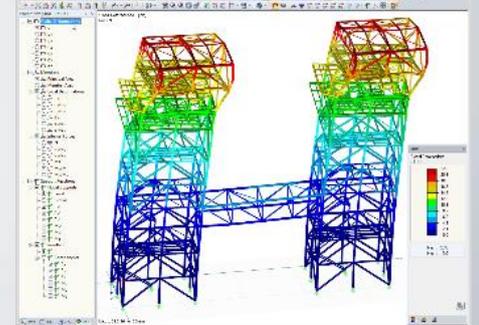
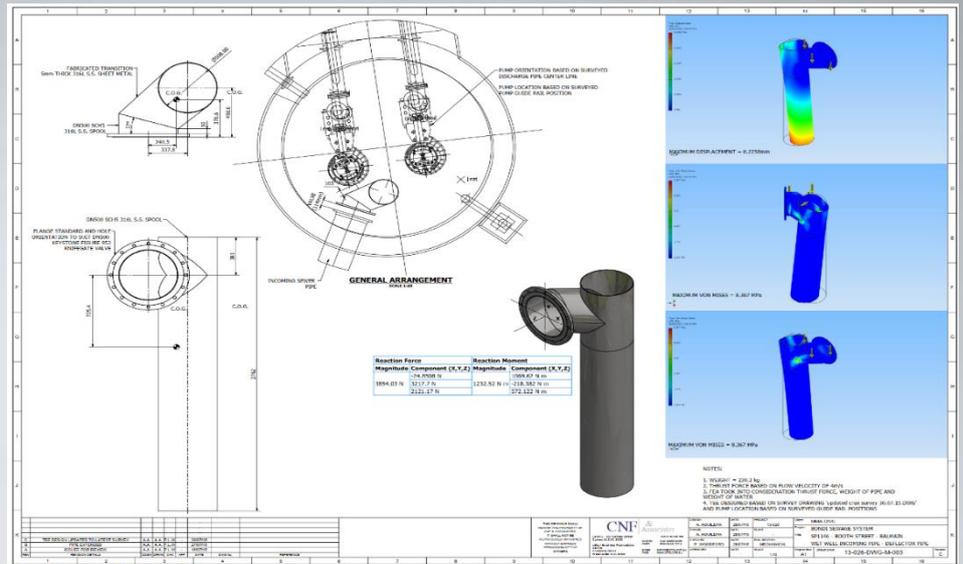
During the design and implementation phases, CNF focusses on minimising energy use and optimising process control.



MECHANICAL & STRUCTURAL

Clients often require a unique design solution for a particular problem. It is the incumbent on the designer to check every aspect of the design to ensure that it is constructible and sufficiently robust to serve the rigours of the expected service life.

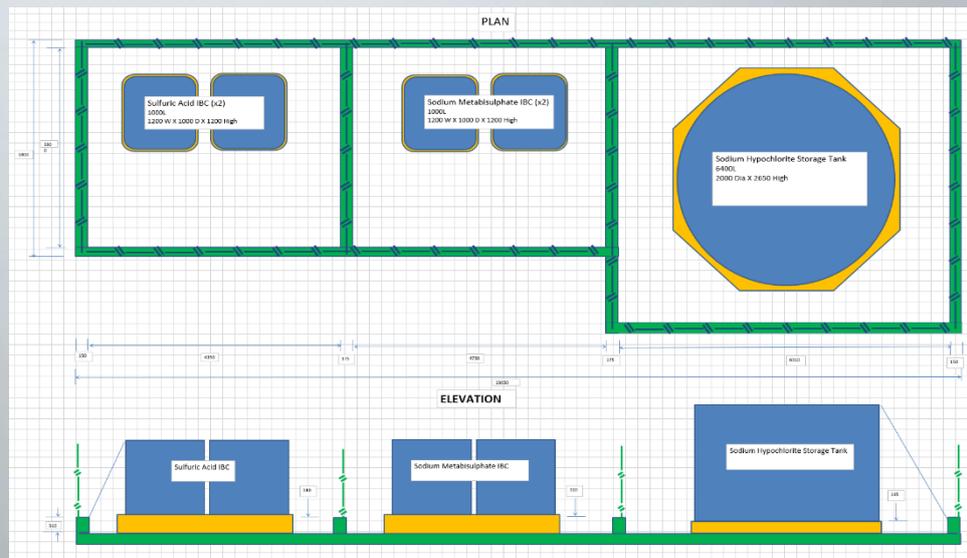
In this example a finite element analysis of a sewage pump station deflector pipe is undertaken to confirm the stresses expected at concentrating points are within acceptable limits.



RISK AND COMPLIANCE

Compliance with mandatory WHS standards and regulations are critical to all parties in the design and construction of industrial facilities. CNF has a dedicated risk and compliance team with an in-depth knowledge of standards such as:

- Dangerous goods storage and handling
- Hazardous area assessment and installation design
- Hazardous area compliance inspection and documentation
- Safety of machinery and machine guarding



SIGNIFICANT PROJECTS



CNF has delivered hundreds of projects in almost all industry sectors and geographical locations. The common thread in all our delivery works has been the collaborative approach to dealing with our project delivery.



We have appended a selection of Project Data Sheets to demonstrate the breadth of our experience to highlight out specific project achievements and innovations.

