



## case study: **Kupe Project**

The Kupe Field Gas Processing Plant, located on New Zealand's South Taranaki coast, will play a significant role in meeting the nation's future energy demands. Project developers Origin Energy and Technip awarded Tenix the main contract to provide all site mechanical construction and installation for the construction of the plant.

The construction brought together one of the largest pools of qualified welders and tradesman assembled on a New Zealand project. Tenix provided the full spectrum of management skills including those covering health, safety, quality and the environment as well as project engineers, contract engineers, experienced senior supervisors and construction engineers.

### Key Features and Outcomes

Tenix was awarded three packages of work as part of the contract:

- Construction and installation of the structural, mechanical and piping works. This was the largest package and included all mechanical equipment and structural steel plus 34,000 metres of piping (50,000 weld diameter inches), 90 tonnes of pipe supports and over 1,200 tonnes of pipe rack modules.
- The offsite construction of the 1200 tonne pipe rack modules.
- The onsite construction of 8 process tanks ranging from 6 metres to 15 metres in diameter.

Tenix assembled a significant specialist skills base for the project including qualified welders, specialist ASME (American Society of Mechanical Engineers) qualified welders, specialist CBIP (Certified Board for Inspection Personnel) specialist project managers and onsite supervisors, design engineers, crane operators, scaffolders and riggers.

To mitigate the risk of variable weather conditions, Tenix completed the majority of piping fabrication in its specialist workshop located close to the project site. This allowed the majority of welding to be completed in a controlled environment.



# Tenix®



### Field Services

- ✓ Project Management
- ✓ Procurement
- ✓ Mechanical Construction
- ✓ Site Installation
- ✓ Commissioning
- ✓ Surface Protection & Insulation
- ✓ Testing
- ✓ Fabrication
- Maintenance

### Management Services

- ✓ Construction Management
- ✓ Project Management & Systems
- ✓ Quality Management & Systems
- ✓ SQE Management & Systems
- ✓ HR & IR Management
- ✓ Procurement Management
- ✓ Subcontractor Management
- ✓ Cost Planning & Estimation
- ✓ Planning and Approvals



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## Our Role

Tenix provided fabrication and installation of all piping, piping supports and structural steel. We installed all mechanical items including pumps, vessels, valves, heat exchangers and compressors and all other mechanical equipment.

Tenix also managed subcontractors for painting, insulation, crantage, scaffolding and rigging.

## Resources & Skills

Tenix had in excess of 550 employees onsite and 100 employees in the workshop working on this project including a project management team, project engineers and a large number of tradesmen. Approximately 1.2 million manhours were worked onsite and a significant number of hours offsite, all without any lost-time injuries.

Tenix, with the client, developed a comprehensive Health, Safety and Environment management system which included world-leading processes to ensure the safe and successful delivery of the project.

### For more information contact:

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<b>Asset Type:</b> Oil & Gas Production	<b>Duration:</b> 20 months
<b>Client:</b> Origin Energy Resources (Kupe) Ltd and Technip Singapore PTE Ltd Alliance	<b>Man Hours:</b> 550 onsite personnel 100 offsite personnel
<b>Location:</b> South Taranaki, NZ	<b>Scope:</b> Structural, Mechanical and Piping
<b>Contracting Style:</b> Lump Sum & Schedule of Rates	<b>Contract Secured:</b> March 2008