

CASE STUDY

Remote Motor Control Centre

OUR CLIENT:	Shell, Todd, OMV – Pohokura Field
INDUSTRY:	Oil and Gas
VALUE:	NZ\$200K
OVERVIEW:	<p>Pohokura offshore field is New Zealand’s largest natural gas resource. The pipeline delivering the gas is designed to deliver gas from the production station to areas of high demand quickly and efficiently.</p> <p>The aim of the project was to deliver a high reliability unmanned site that would be controlled and monitored by the DCS in the control room at New Plymouth, with switch gear and status for the motors being operated via discrete PLC inputs and outputs. New communications would be added to the existing network to the control room.</p>
ENGINEERING:	<p>The design, by Transfield Worley, utilized Allen-Bradley DeviceNet and ControlLogix PLCs. The intention was to fully integrate the new systems into the existing systems. Transfield Worley provided documentation for the general requirements of the configuration, system integration, testing and documentation.</p> <p>A Factory Acceptance Test (FAT) was completed at the ECL offices before the start of commissioning.</p> <p>The commissioning was staged to maximize the availability of the existing systems. ECL supplied the relevant documentation to be compliant with QHSE requirements.</p>

OUTCOME:

- The successful implementation of the new systems has enabled the Pohokura plant to be operated as a high reliability unmanned site.
- Shell Pohokura received a sustainable development and technical innovation award from the Taranaki Regional Council in 2010.



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