

CASE STUDY

Greater Ngatoro Revitalization

OUR CLIENT:	Greymouth Petroleum
INDUSTRY:	Oil and Gas
VALUE:	NZ\$150K
OVERVIEW:	<p>The Kaimiro and Ngatoro fields contain a high level of rich carbon dioxide (CO₂) gas. The aim of the project was to upgrade the control systems to allow increased production and enable monitoring and control the supply of the rich CO₂ gas to the pipeline supplying the gas to Methanex.</p> <p>The radio communications was also to be upgraded to allow live data communication between sites (NZEC, Vector and Methanex), a distance of over 20km.</p> <p>To achieve the project aim the existing PLCs, SCADA, radio communications and Modbus communications would be upgraded or updated.</p>
ENGINEERING:	<p>ECL Control System Engineers were responsible for the design, documentation, testing and commissioning the new systems.</p> <p>The project involved the following stages;</p> <p>Allen-Bradley SLC-5/04 and ROC, replacement with Allen- Bradley CompactLogix Allen-Bradley ControlLogix and CompactLogix programming Red Lion HMI and Wonderware InTouch SCADA development Moxa Radio Modbus network with remote wellsites Modbus communication to NZEC, Vector, and Methanex.</p> <p>Commissioning was staged to fit in with scheduled shutdowns.</p>

OUTCOME:

- The aim of increased production, monitoring and control of the CO₂ gas to the pipeline was achieved.
- The project was completed on time, within budget with no lost time incidents.



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