

## CASE STUDY AHUROA GAS STORAGE

<b>OUR CLIENT:</b>	<b>Origin Energy New Zealand</b>
<b>INDUSTRY:</b>	Oil and Gas
<b>VALUE:</b>	NZD \$170 million
<b>OVERVIEW:</b>	<p>The existing Ahuroa Gas Field was converted for use as a Gas Storage facility. This allowed the stored gas in the Ahuroa field to be used in the nearby Contact Energy power plant. Origin Energy owns a majority stake in Contact Energy.</p> <p>The Extraction Capacity of the plant is 45 Terrajoules a day (TJ/day). The existing Ahuroa control systems consisted of a Hima SIL3 rated Safety System and DeltaV DCS connected to the overall Waihapa DeltaV System.</p> <p>To accommodate the additional field equipment an additional Hima Himax SIL3 rated safety system and DeltaV DCS Node were added to the systems to provide SCADA coverage of the new gas processing equipment.</p> <p>The existing DeltaV Control system and Safety PLC at Waihapa were also updated to allow the flow of gas in both the Injection and Extraction phases.</p>
<b>ENGINEERING:</b>	<p>A Joint Venture between Worley Parsons and Hawkins were awarded the FEED, procurement and construction of the project.</p> <p>ECL were contracted to provide the automated control solution for the DeltaV DCS and the Hima Safety Systems.</p> <p>The work scope covered both the new and existing DCS and safety systems at the Waihapa Production Station and Ahuroa Wellsite.</p>

### OUTCOME:

- The Facility was opened in May 2011 and was the first such facility to be opened in New Zealand.
- The project was delivered on time, within budget with no lost time incidents.



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