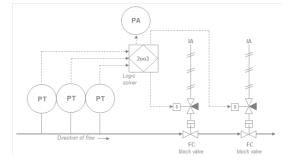


## CASE STUDY High Integrity Pressure Protection System

OUR CLIENT:	Todd Energy Limited
INDUSTRY:	Oil and Gas
VALUE:	NZ\$100k
OVERVIEW:	To protect lower pressure rated downstream pipework between Todd Energy's Mangahewa Wellsites and McKee Production Station a High Integrity Pressure Protection System (HIPPS) was required. To reduce future development cost, a standard HIPPS was designed which can be Implemented at different sites without requiring extensive modifications or re-testing.
ENGINEERING:	<ul> <li>ECL TÜV certified functional safety engineers utilised a Hima HIMatrix F35 SIL3 rated Safety PLCs to design, implement, test and commissioning the HIPPS.</li> <li>A fully integrated Factory Acceptance Test (FAT) was completed at the ECL offices before the start of each commissioning.</li> <li>ECL supplied the relevant documentation to be compliant with QHSE requirements. The standard HIPPS design has been used on several trains at Todd Energy's Mangahewa A, C, D, E and G wellsites and McKee Production Station.</li> </ul>

Commissioning of the HIPPS were completed on time, within budget, with no lost time incidents

A dozen HIPPS are currently in service providing SIL3 rated protection of Todd Energy's extensive pipeline network.





N EW ZEALAND P: +64 6 757 5562 | E: manager@ecl.co.nz 166 Powderham Street | P.O. Box 247 | New Plymouth 4340 New Zealand

WWW.ECL.CO.NZ