

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:	ECL TÜV certified functional safety engineers utilised a Hima HIMatrix F35 SIL3 rated Safety PLCs to design, implement, test and commissioning the HIPPS. A fully integrated Factory Acceptance Test (FAT) was completed at the ECL offices before the start of each commissioning. 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.

- 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.

