

## Project Profile

**Project:** Future Fuels Project  
**Location:** Marsden Point Whangarei  
**Client:** New Zealand Refinery Company Ltd (NZRC)  
**Consultant:** Foster Wheeler  
**Project type:** Measured Rate Project

**Man hours:** 106,000  
**Duration:** 12 months  
**Completion Date:** 24-Aug-05  
**Approximate Value:** \$6,600,000

### Description of Site

The site is located within the existing New Zealand Refinery Company Ltd's (NZRC) site at Marsden Point, Whangarei. The New Zealand Refining Company Ltd has undertaken a major project development to upgrade the transport fuel refining processes to meet tightening NZ Government fuel specifications. This flagship project in New Zealand represents the largest investment in the refinery for 20 years.

Newpower have been engaged by Foster Wheeler to undertake the complete installation of the electrical system for the refinery upgrade.

### Description of Project

This Zone 1 hazardous area installation comprises of the electrical system installation for a Benzene Removal Unit (BRU) and a Hydro Desulphurisation Unit (HDS).

From a new Sub Station / Field Auxiliary Room (FAR) the installation included the wiring of over 2000 instruments including pressure, temperature, fire/gas and H2S detectors, 500 hazardous EXe light fittings for use in hazardous areas and 90 three phase motors for pumps and fans, including two 11kv and two 3.3kv compressor units. Associated MCCs and site reticulation are also included in the scope of work.

Newpower presence on site comprises 130 operations personnel including a team of 15 administrative, quality assurance and supervisory staff. The project duration ran for 12 months and was be complete in August 2005 after completing 106,000 man hours.

This project required that all project work to be undertaken in the Zone 1 hazardous area. Newpower operate in strict accordance with the hazardous area safety standards for the NZRC site.

