

NEMA RESILIENCE FUND

West Coast Emergency Management

FUEL STORAGE

Two Year Project 2022-2023 and 2023-2024

Final Report September 2024

BACKGROUND

The West Coast region is vast with challenging terrain, with communities who will be easily isolated for long periods of time when there is a large emergency event.

In response the access to fuel to operate generators, machinery, vehicles and aircraft will be a critical resource. Both the availability and accessibility will be a key concern for response teams, with a limited ability to bring supplies into the region, mainly due to damage to roading infrastructure. Therefore, maximising the ability to store fuel within the region, be able to move fuel around the region and ability to access fuel in fuel stations is a focus. The objective of this project is to improve the ability to store and move fuel around the region.

NEMA RESILIENCE FUNDING

This project was carried out with funding support from the National Emergency Management Agency (NEMA) over two years, 2022-2023 and 2023-2024. This project aligns to the National Disaster Resilience Strategy (NDRS) as follows:

Priority: Managing risks - **Objectives:** 1) Risk scenarios and informed decision making, 6) Economic impacts

Priority: Effective response to and recovery from emergencies - **Objective:** 10) enable and empower community-level response, and ensure it is connected into wider coordinated responses

Priority: Enabling, empowering, and supporting community resilience - **Objectives:** 13)... build resilience, paying particular attention to those people and groups who may be disproportionately affected by disasters, 15) ... take a whole of city/district/region approach to resilience

PROJECT OBJECTIVE

The project focus is to increase resilience of existing retail and bulk storage sites through:

- 1) the completion of electrical work that allows service stations to utilise alternate power sources to access fuel stores,
- 2) generator capacity available as an alternate power source for service stations, and
- 3) provision of mobile tanks to enable the movement of ground fuels around the region as required.

This capability is required to manage critical customer fuel needs until access can be restored.

A TWO-YEAR FUNDED PROJECT

NEMA agreed to assist with funding the project on the basis that it was split over two years, Year One (2022-2023) and Year Two (2023-2024). Year One funding was set at \$150,000 (excl GST) and Year Two at \$148,038.44 (excl GST).

This project came in significantly under budget at a total cost of \$273,455.80. This was in the main due to the number of service stations that were already 'generator ready', which resulted in 15 rather than 21 stations being assisted..

A breakdown of the components for Year One and Year Two is shown in the following sections.

YEAR ONE: 2022-2023 PROJECT COMPONENTS

1. GENERATOR – Proline GT 8000W (\$6,894.25 (GST incl))
2. TRAIERED GENERATORS – three TERRACAT 33KvA DE33EO Generators with trailers (\$40,207.35 (GST incl) each)
3. MOBILE FUEL STORAGE CELLS – four FuelChief 1000l fuel cell units. Three purchased in year one, and one in year two (\$21,090.71 GST incl each).

TOTAL YEAR ONE SPEND \$172,144.59 (GST incl)

1. PROLINE 8000W GENERATOR



*Above: The Proline Generator purchased in April 2023.
GT Power 8000W Push Button Start Silenced Inverter Generator*

2. TRAILERED GENERATORS

Below: The three trailered generator units delivered by TERRACAT (NB: the fourth unit showing was delivered to another agency). West Coast Emergency Management getting shown through the new assets by the TERRACAT team.



3. FOUR FuelCHIEF 1,000L MOBILE STORAGE UNITS



Fuelchief Supercube – SC10CAB

The Fuelchief Supercube SC10CAB is a 1,000L transportable tank that provides diesel storage for a variety of refuelling applications across various industries.

Above: The FuelChief mobile fuel units being placed in position for the West Coast Emergency Management.

YEAR TWO: 2023-2024 PROJECT COMPONENTS

1. ENABLING FIFTEEN WEST COAST FUEL STATIONS TO BE 'GENERATOR READY' – includes initial assessments and electrical work
2. DRAFTING MOU AGREEMENTS BETWEEN SERVICE STATIONS AND WCEM
3. TOOLBOXES – three large trailer mounted toolbox for each of the Trailered Generators TERRCAT \$3,101.55 (GST incl)

TOTAL YEAR TWO SPEND \$101,311.21 (GST incl)

1. ENABLING FIFTEEN WEST COAST FUEL STATIONS TO BE 'GENERATOR READY'

The Fifteen Fuel Stations assisted to be 'generator ready by District and location and were:

Grey:

- Challenge Dobson
- Challenge Greymouth
- NPD Ahaura
- RDP Kaiata
- Allied Lake Brunner
- Allied South Beach
- Z Greymouth

Buller:

- GAS Springs Junction
- Allied Ikamatua
- Mobil Reefton
- Caltex Westport

Westland:

- BP Hokitika
- GAS HariHari
- McKeowns Kumara
- NPD Hokitika

2. DRAFTING AGREEMENT BETWEEN WCEM AND EACH SERVICE STATION

DRAFT AGREEMENT BETWEEN WCEM AND EACH SERVICE STATION

A draft agreement has been prepared that is utilised to discuss with each of the fifteen service stations. (Refer to Appendix One)

It is expected that this form the basis of a discussion, understanding and agreement with other fuel stations and storage facilities on the West Coast.

A copy of the draft agreement that is being utilised for these discussions is on the following pages of the report.

3. LARGE TRAILER MOUNTED TOOLBOXES FOR EACH OF THE THREE TRAILERED GENERATOR UNITS



The three trailer mounted toolboxes were purchased from TerraCAT at a price of \$899 each. These were recommended to be installed on each of the trailered generator units so that tools and cables were easily accessible and house with each unit.

PROJECT MANAGEMENT AND ADMINISTRATION

A total of \$7,205 (excl GST) was spend on project management. This was well under the estimated \$12,000 budgeted for this purpose. WCEM were able to manage the administration of the work associated with project within existing resources.

SUMMARY

This two-year project enabled WCEM to work with fuel suppliers and distributors to enhance the ability to store and relocate fuel supplies around the region. WCEM acknowledge there is some way to go to better secure fuel storage in the region however, there have been a number of opportunities regarding storage that have emerged from this project.

This project has not only meant the region is better placed in terms of resources and assets, but it has also enabled the conversation of fuel use and critical resource security between WCEM and fuel stations across the region. Better business continuity and understanding of what occurs in emergency activation is an invaluable by-product of this work. There is a stronger awareness of the role fuel stations play and how they connected with the other response agencies.

WCEM appreciates the support provided by NEMA for this work to take place.

Appendix One

DRAFT ONLY

MEMORANDUM OF UNDERSTANDING

between

West Coast Emergency Management Group (WCEM) and

[FUEL STATION NAME AND LOCATION]

for the supply of fuel during an emergency

1. Introduction

This MOU is an agreement between the West Coast Emergency management (WCEM) Group and priority fuel stations, relating to the supply of fuel during an emergency.

The WCEM Group includes the following local authorities who all form part of this agreement: West Coast Regional Council, Buller District Council, Grey District Council and Westland District Council.

2. Purpose

Fuel is a critical resource during an emergency, particularly when there are significant power outages. Fuel will be required for emergency services vehicles, repair vehicles, heavy machinery and the refuelling of generators.

The purpose of this agreement is to help secure and distribute critical fuel supplies for emergency response and recovery operations.

As seen in previous emergency events, panic buying from the public can seriously affect the ability of critical services to access essential fuel and the overall fuel supply.

3. Roles

In an emergency the CDEM Act 2002 provides CDEM Groups and Controllers with the power to manage essential supplies and the requisitioning of essential materials.

This includes the distribution of fuel, including the control of fuel to priority service stations.

A commitment from the priority fuel stations is required to improve their ability to dispense fuel in an emergency.

4. CDEM Critical Fuel Customers

CDEM critical fuel customers are those required for responding to and recovery from an emergency event and will be identified by the Controller.

CDEM critical fuel customers include emergency services vehicles and staff as well as lifeline utilities and their contractors. Critical fuel customers can be different in each event, and can include welfare, health, primary industries and consumable goods, fast moving goods and supply chains.

Unlike emergency services who have identifiable uniforms and clearly marked vehicles, many critical fuel customers are just like many other members of the public (e.g. welfare centre volunteers). Critical customers will be provided with identification where necessary.

The fuel supply sites will be able to determine how CDEM critical fuel customers are supplied with fuel.

This agreement will not generally prevent fuel supply sites from supplying regular customers as long as fuel is available for CDEM critical fuel customers.

Where an emergency is formally 'declared' the Controller may restrict supply in accordance with the Civil Defence Emergency Management Act 2002.

5. CDEM Responsibilities

The West Coast CDEM Group agrees to accept the following responsibilities in relation to this agreement:

- To contact fuel supply sites and determine ability to continue operations.
- To assist with fuel tank inspections where possible following an emergency event to ensure fuel quality.
- The Controller will identify and prioritise sites for refuelling where fuel shortages occur (this will be dependent on access to the site and the location of the emergency).
- The Controller will consider requests for assistance with generators. This will be decided during an emergency and the assessment will be made to ensure access to fuel for CDEM critical fuel customers.
- Provide a simple method of identifying unmarked CDEM critical fuel customers for fuel supply site staff.
- Provide regular communications on the state of the emergency and requirement for critical customer service only. Depending on the nature of the emergency, communications may be with either the individual site or with the head office of the fuel company.
- At the Controllers discretion, may provide additional security.
- Communicate with the public information on fuel supply to prevent or reduce panic buying and increased demand.

6. Priority Fuel Station Responsibilities

Owners of retail outlets identified as a priority site by West Coast CDEM Group must:

- Maintain a business continuity plan, including testing of systems and procedures for use of backup arrangements (e.g. for alternate power supply and any other critical resource);
- Provide a method of payment and keep records of supply to ensure payment following the emergency when phone and power services are reinstated. Payment will be the responsibility of individual CDEM critical fuel customers.
- Consider participating in local and regional CDEM planning and exercises;
- Ensure their staff are aware of CDEM critical fuel customers during an emergency and know how to identify them;
- Liaise with CDEM for any support required to implement supply to critical fuel customers;
- If possible communicate with staff and CDEM and report on fuel levels as required by the Controller.
- Plan for the security of staff and the fuel outlet in an emergency event and consider appropriate security measures to cope with public demand.
- Investigate requirements for alternate power supply i.e. generator connections in place and an emergency generator on site (wherever possible);

7. Getting 'Generator Ready' - Alternate Power Supply Support

West Coast Emergency Management Group (WCEM) is committed to improving fuel resilience on the West Coast.

WCEM agrees to provide a significant financial contribution to priority service stations/fuel outlets that include:

1. Costs to have the service station/fuel outlet evaluated for electrical work to become 'generator ready'; and/or
2. Costs to have electrical works completed as per evaluation (see item 1) so that the service station/fuel outlet is wired with standardised generator connections and switch so that a generator could be used to power the site to supply fuel in an emergency when mains power is interrupted.

Conditions:

- WCEM will not contribute to the costs of an on-site generator. Costs for purchase of an on-site generator are solely the responsibility of the owner of the priority service station/fuel outlet.
- WCEM will arrange with Electronet to complete the work.
- An alternate form of payment (other than internet banking) must be made available to critical customers, and invoicing must be one option available. Recording details of fuel supply remains the responsibility of the service station/fuel outlet at all times.

Signed on behalf of Allied Lake Brunner Group:

Signed on behalf of West Coast EM

Signature:		Signature:	
Name:		Name:	Claire Brown
Position title:		Position title:	Manager - West Coast Emergency Management
Date:		Date:	