



Electricity Engineers'
Association

**ASSET
MANAGEMENT**

Resilience Guide

Asset Management Group

EEA.CO.NZ



Introduction

1. Overview of the EEA Resiliency Guide - Steve Peake
2. Role of NEMA - Ajay Makhija
3. Using the Assessment Tool - Tas Scott
4. Case Study, Powerco - Dave Evans
5. Case Study, Wellington Electricity - Michael Glass
6. Resilience Organisation, The Need For Planning - Charlotte Brown
7. Close - Steve Peake



Overview of the Resilience Guide

Good resilience planning supports effective management of issues arising from major emergency events such as natural disasters large earthquakes, extreme weather events and other extreme events such as major supply interruptions which could be due to equipment failure, terrorism, pandemic or cyber-attack.

“the ability of assets, networks, systems, organisations and people to anticipate, prepare, absorb, adapt to and/or rapidly recover from a disruptive extreme event.”



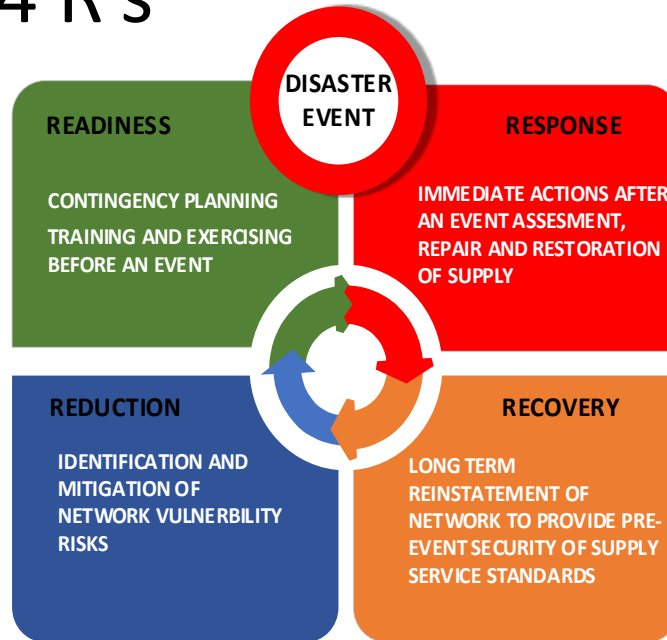
Guide Objectives

A guide for Resilience Planning for electricity transmission and distribution network asset owning businesses:-

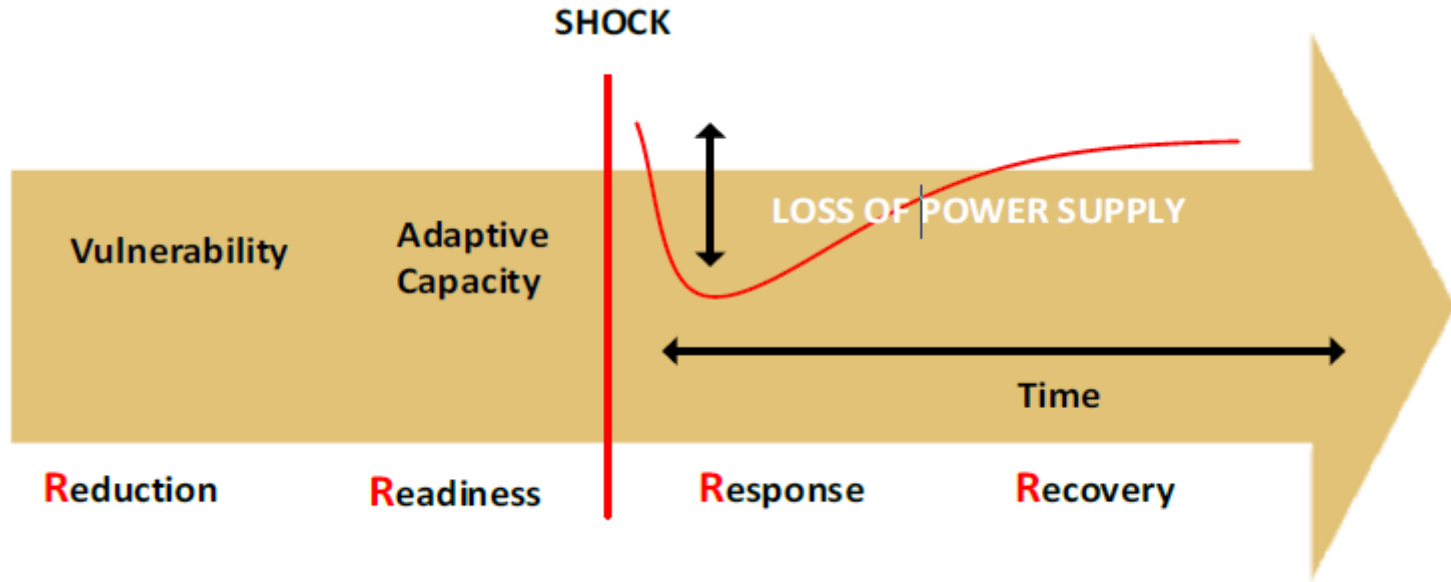
- Better understand the obligations imposed on Lifeline Utilities by the Civil Defense Emergency Management (CDEM) Act 2002;
- Undertake self-assessment of resilience capabilities and preparedness;
- Identify gaps in their resilience planning systems and processes and establish priorities to address the gaps;
- Undertake a systematic risk reduction assessment and, based on this, develop business cases for investment in network assets or systems to mitigate vulnerabilities;
- Define and manage critical emergency spares;
- Consider the probable resources, expertise and mutual aid arrangements that will be needed to respond and eventually recover from a major event;
- ***Provide a source of reference material to improve resilience planning***



Key Principal - 4 R's



Applying 4 R's in context of an Extreme Event



Lifeline Groups – You are not Alone

- Lifeline Groups are established in all regions of New Zealand and it is recommended that all EDBs join and actively engage with their local regional Lifeline Group
- The principle of the Lifeline Group is the exchange of relevant information regarding each Lifeline Utility's risk management processes
- Lifeline Group's priority is to identify key regional infrastructure vulnerabilities
- Lifelines Groups are involved developing and activating readiness/response activities
- They rely on local members active participation and support



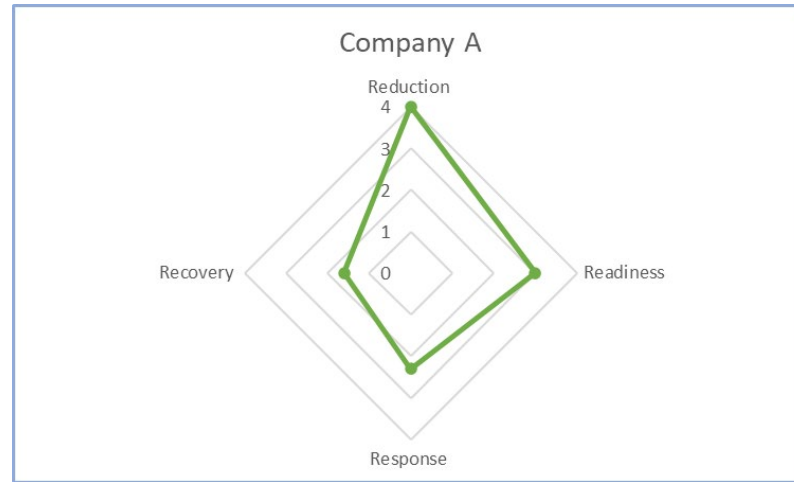
Coordinated Incident Management Systems (CIMS)

- Creates a framework to coordinate, command, and control incidents
- Effective coordinated incident management across all responding agencies
- During incidents it helps establish common
 - Structures
 - Functions
 - Terminology
- It is modular and scalable to any size of incident
- EEA recommends that EDBs in New Zealand adopt the CIMS principles and practices when developing their overall emergency management response plans



Resilience Measurement MATurity (RMMAT)

- Self assessment tool to determine your organisation's resilience management maturity
- Provides a good externally comparable measure of maturity for use by management and Boards
- Spreadsheet with spider graph expected to be available for EEA members



Questions?





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Resilience Guide WEBINAR | 2021

23RD FEBRUARY 2021
3.00pm to 4.30pm

Thank you to our
presenters and to you
our audience for your
attendance.

EEA value your support

