

Lifeline Group Projects and Activities: 2017 Update

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>Northland Lifelines Group</p> <p><i>Simon Weston, Chair simonw@wdc.govt.nz</i></p> <p><i>Lisa Roberts, Programme Manager lisa@infradecisions.co.nz</i></p>	<ul style="list-style-type: none"> • Infrastructure Resilience in Northland. Completed components: <ul style="list-style-type: none"> - Part A: Critical Infrastructure (incl. maps). - Part B: Regional Infrastructure Risk Profile - Part C: Regional Power Outage Contingency Plan - Part D: Tsunami Assessment and Plan - Part E: Fuel Contingency Plan - Part F: Severe Weather Plan - Part G: Air Operations Plan • Resilience Assessment Benchmarking (MCDEM Capability / Capacity Tool). • Lifeline Utility Protocols for Response and Recovery. • Review of emergency utility – CDEM communications (established use of DoC network). • Lifelines-CDEM Exercises (Exercise Rose, Exercise Tangaroa) 	<ul style="list-style-type: none"> • Body of work largely complete, subject to ongoing review and updating. • Regional lifelines exercise. • Business continuity / emergency response plan workshop.
<p>Auckland Lifelines Group</p> <p><i>Sarah Sinclair, Chair Sarah.Sinclair@aucklandcouncil.govt.nz</i></p> <p><i>Lisa Roberts, Programme Manager lisa@infradecisions.co.nz</i></p> <p>www.aelg.org.nz</p>	<p>Completed projects:</p> <ul style="list-style-type: none"> • Auckland Engineering Lifelines Project, being updated progressively as new information arises (critical sites and tsunami sections updated in last year). • Resilience Benchmarking, 2014 and 2016. • Genset Performance in Volcanic Ash, 2017. • Auckland’s Infrastructure Hotspots, 2015 • Tsunami Impacts on Infrastructure (joint with WeLG), 2015 • Exercise Mayday (joint with CDEM), 2015 • Volcanic ash impact research and posters available for all sectors plus general posters for facility/building managers across all sectors. • Operational documents (joint with CDEM) such as fuel plan, electricity plan. • Review of regional response and recovery resources (also project on generator resources). <p>A full set of project reports are at: http://www.aelg.org.nz/document-library/</p>	<p>Ongoing updates to main projects, updates scheduled for 17/18</p> <ul style="list-style-type: none"> • All volcanic ash posters • “Framework for implementing lifelines projects” • AELP2 Volcano Section (impacts on volcanic events on Auckland’s infrastructure).

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>Waikato Lifeline Utilities Group (WLUG) <i>Julian Snowball, Project Manager and Lifelines Coordinator</i> Julian.Snowball@waikatoregion.govt.nz <i>Alan Harrop, WLUG Chair</i> Alan.Harrop@wel.co.nz www.waikatolifelines.org.nz</p>	<ul style="list-style-type: none"> The Vulnerability Study (hot spot identification and interdependency work) is now complete. The findings of this study are now being used to prioritise the hot spots, with a view to getting the respective asset managers to form workshops and discuss any specific interdependencies, any risks and opportunities. An annual joint forum is held with the BoP Lifelines Group. 	<ul style="list-style-type: none"> Hot Spot work-groups to better understand, and plan for, the impact of interdependencies in the highest risk areas identified by the vulnerability study (slow slip risk a focus). Review of the Regional Fuel Contingency Plan. Regional Emergency Generator Management Plan.
<p>Bay of Plenty Lifelines Group <i>Fraser Toumin, Project Manager and Lifelines Coordinator</i> Fraser.toumin@embop.govt.nz <i>Hadley Page, Interim Chair,</i> Hadley.Page@nzosl.co.nz http://www.boplifelines.co.nz/</p>	<ul style="list-style-type: none"> Second generation Vulnerability Study completed. An annual joint forum is held with the Waikato Lifelines Group. Development of a Rapid Impact Assessment Geoform tool. Participation in Ex Tangaroa, testing the above. Resilient Benchmarking Exercise. Completed fuel plan and vulnerability assessment 	<ul style="list-style-type: none"> Resilience Organisations benchmarking survey. Continuing development of the GIS tool. 2018 joint Waikato/ BOP forum.
<p>Tairāwhiti Lifelines Group <i>Neville West, Chair/Project Manager</i> Neville.West@gdc.govt.nz</p>	<ul style="list-style-type: none"> A Vulnerability/Critical Sites Study has been completed in draft form. To be ratified at 14th Nov TLG meeting 	<ul style="list-style-type: none"> Finalise Vulnerability/Critical Sites Study. Review TLG 10 year work plan (Hot topics) <ul style="list-style-type: none"> Fuel Plan Portable Generators Create response/ mitigation plans for top 5 vulnerable hotspots
<p>Taranaki Lifelines Advisory Group <i>Craig Campbell-Smart, Project Manager,</i> Craig.campbell-smart@cdemtaranaki.govt.nz <i>Carl Wallworth, Chair,</i> Carl.Wallworth@vector.co.nz</p>	<ul style="list-style-type: none"> Emergency Debris Management Plan Immediate Aerial Reconnaissance Plan Lifeline Group Induction Material for New Members Report on “Liquefaction Hazard in Taranaki” (GNS) Procedures for the emergency coordination of Lifeline Utilities 	<ul style="list-style-type: none"> Progressing the draft regional fuel plan. Vulnerability assessment project.

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>Hawke’s Bay Engineering Lifelines Group <i>Oliver Postings, Chair</i> Oliver.postings@nzta.govt.nz; <i>Teresa Simcox, Support</i> teresa.simcox@hbemergency.govt.nz</p>	<ul style="list-style-type: none"> • Critical sites and hotspots collated in EMIS GIS system- on hold • Facing the Risk 2001 (Regional lifelines vulnerability assessment). • 2017 Fuel plan draft completed 	<ul style="list-style-type: none"> • Vulnerability study finalised • Finalising hazard mapping and lifelines infrastructure in GIS- project underway. Will be used as basis for Vulnerability study. • Finalising stage 2 of Regional fuel plan
<p>Manawatu-Wanganui Lifelines Advisory Group <i>David Rei Miller, Chair and Lifelines Coordinator, david.miller@mdc.govt.nz</i> <i>Robin Mackie, Deputy Chair, robin.mackie@wanganui.govt.nz</i> <i>Ian Lowe, Manager EM, ian.lowe@horizons.govt.nz</i></p>	<ul style="list-style-type: none"> • Manawatu-Wanganui Lifelines Vulnerability Assessment 2016 • Risks and Responsibilities, 2005 	<ul style="list-style-type: none"> • Regional Fuel Plan. • Inclusion of all “missing” lifeline utilities in meetings/activities. • Drilling in to detail on vulnerability study. • Continuing development of Lifeline Utility Coordinators. • Reviewing Business Plan.
<p>Wairarapa Engineering Lifelines Association <i>David Hopman – davidhopman@mstn.govt.nz</i> <i>Mark Allingham – mark.allingham@swdc.govt.nz</i> <i>Garry Baker – garryb@cdc.govt.nz</i></p>	<p><i>Risk to Lifelines From Natural Hazards, 2003</i></p> <ul style="list-style-type: none"> • Soft cover hard copy; also in electronic format downloadable from www.civildefence.govt.nz • Priority Emergency Routes • Priority Sites for Utility Response & Recovery (with WeLG) 	

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>Wellington Lifelines Group</p> <p><i>Fran Wilde, Chair, fran@franwilde.co.nz</i> <i>Colin Crampton, Deputy Chair, colin.crampton@wellingtonwater.co.nz</i> <i>Richard Mowll, Project Manager rmowll@ihug.co.nz</i></p>	<p>Most recently completed projects:</p> <ul style="list-style-type: none"> • Emergency resource mapping (a review of resources each lifeline would require in an emergency, highlighting where they share the same resource). • Hazard mappings - collection and provision of GIS hazard mappings to WeLG. • Key Utility Sites - an update of the dataset. • Road prioritisations - highlighted impediments to accessing by road the 'response priority sites' in the region. • Regional Resilience Project - modelling of the 'base-case' damage from a rupture of the Wellington fault has been modelled in RiskScape. • Co-ordination of public communications in an emergency. • Mapping member facilities against hazards. • Fire following earthquake. • Desktop exercises for WeLG members. • Emergency fuel plan. 	<ul style="list-style-type: none"> • Regional Resilience Project - Economic modelling of the base-case and a range of initiatives to mitigate risk. • The project is expected to be complete, highlighting an optimised programme of initiatives, in February 2018. It is expected that discussions will then be held with central and local government on the project outcomes.
<p>Marlborough Engineering Lifelines Group</p> <p><i>Mark Nelson</i> Mark.Nelson@marlborough.govt.nz</p>	<ul style="list-style-type: none"> • Report: Post-Tsunami Debris in the Marlborough Sounds • GIS maps of critical infrastructure • Fuel storage in Marlborough report • Tsunami risk gap analysis study • Earthquake response workshop - December 2009 • Recovery Planning Workshop – March 2013 • Inter-agency radio communication – May 2013 	<ul style="list-style-type: none"> • Current focus is assisting CDEM with fuel plan, completing critical sites mapping, tsunami impacts assessment. • Business continuity workshop in November with local NGOs.
<p>Nelson-Tasman Engineering Lifelines Group</p> <p><i>Becky Marsay, Project Manager: Becky.Marsay@ncc.govt.nz</i> <i>Roger Ball, Chair, roger.ball@ncc.govt.nz</i></p>	<ul style="list-style-type: none"> • Regional Vulnerability Assessment (2016) • Limiting the Impact (2009) • Fuel storage study (2009) • Roding Agencies Forum established (2014) • LUC participation in recent CDEM Exercises eg, Te Ripahapa (2013), Catalyst (2014), Kaka (2014), Waipuke (2015) 	<ul style="list-style-type: none"> • Developing work programme, will include a Regional Fuel Plan.

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>West Coast Engineering Lifelines Group</p> <p><i>Rob Daniel: Project Manager and Lifelines Coordinator</i> rob.daniel@slingshot.co.nz</p> <p><i>Mel Sutherland, Chair.</i> Mel.sutherland@greydc.govt.nz</p>	<ul style="list-style-type: none"> • Aerial reconnaissance plan. • District and regional reports focusing on the Alpine Fault Earthquake scenario were completed in June 2006 • Fuel Storage on the West Coast (2008) • Lifeline Response Protocols (2009) • Implementing a Surface Rupture Avoidance Zone for the Alpine Fault (R. Langridge) • Landslide Susceptibility Model for the West Coast (K. England) • Seismic studies on bridges on-going • Grey District Council Recovery Report (2012) • Report on West Coast Weather Event Ex Tropical Cyclone Ita. 	<ul style="list-style-type: none"> • Participating in AF8 • Participating in National Science Challenge Project – Resilience to nature’s challenges • Preparing West Coast Fuel Plan • West Coast Communications Plan • West Coast Resources Database
<p>Canterbury Lifelines Utilities Group</p> <p><i>Gerard Cleary, Chair</i> Gerard.cleary@wmk.govt.nz</p> <p><i>Mark Gordon, Project Manager</i> Mark.gordon@aecom.com</p>	<ul style="list-style-type: none"> • Regional Fuel Plan, 2016 • Lifelines Lesson Learnt 2012 (commissioned by CERA) • Aerial Reconnaissance Plan (2012) • Hazard Assessment for Petroleum Storage (2010) • Priority Sites for Recovery (2010) [This is about the interdependencies of utilities] • Lifelines Interdependencies <ul style="list-style-type: none"> ○ Stage 1 Workshop Outputs (2008) ○ Stage 2 – Pilot Outputs and working Guide (2010) • Critical Infrastructure – Manual Backup (2010) [Result of concerns over increasing reliance on computerised systems for control of critical assets the potential effects of these systems failing and provisions for manual over-ride / operation. • Aerial Reconnaissance Plan (2011) • Risk Management Template for Asset Management Plan (2010) 	<ul style="list-style-type: none"> • Complete Risks and Resilience study. • Update website. • Review / develop GIS application to Lifelines. • Continue engagement in AF8.

Lifeline Group	Reports on Completed Projects	Current & Proposed Activities
<p>Otago Lifelines Group</p> <p><i>Sarah Hexamer, Project Manager</i> sarah.hexamer@otagoocdem.govt.nz</p> <p><i>Murray Hasler, Chair</i> murray.hasler@codc.govt.nz</p>	<ul style="list-style-type: none"> Otago Lifelines Vulnerability Assessment 2014 – Review and Edit 2017 Establishment of the Lifelines Group, 2017 	<p>Embarking on the following Projects and Activities:</p> <ul style="list-style-type: none"> Fund and Recruit (with infrastructure expertise) Project Manager (1st Quarter) Otago Southland Integrated Air Operations Plan (1st Quarter Completion) Regional Emergency Generator Management Plan (2nd Quarter) GIS Mapping - Review / develop GIS application to Lifelines. (Progress in 1st Quarter)
<p>Southland Lifelines Group</p> <p><i>Graeme Webby – Chair</i> gwebby@powernet.co.nz</p> <p><i>Russell Hawkes – Project Manager</i> Russell.Hawkes@es.govt.nz</p>	<p>Critical Infrastructure Study 2012 - Incorporating Vulnerabilities & Dependencies published.</p> <ul style="list-style-type: none"> Report finalised and adopted by CEG. Being used by Emergency Management Southland in training etc. <p>Invercargill City Lifelines: Working Together to Reduce Risk, 2004</p> <ul style="list-style-type: none"> Hard copy in ring binder format. Southland Infrastructure GIS platform hosted by Environment Southland 	<p>Completion of Fuel Study and commence flight plan project.</p>