

# Overhead Line designers Forum Chair: Mitch Graham; Unison

Wifi password: #Wemakeevents

**EEA.CO.NZ**



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## House Keeping

### Sign in

- Please ensure you have signed the attendance register

### Covid

- Use the tracer app to sign into the Vodafone events center
- Use hand sanitizer

### Breaks

- Morning tea      10:10 – 10:30
- Lunch              12:00 – 13:00
- Afternoon tea    15:00 – 15:20

### Emergency Exit

### WiFi

- Vodafone
- #Wemakeevents

### Cell phones

- Silent mode



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# Programme

8.30am	Coffee and Networking		
9.00am	INTRODUCTION	C Rathbone	<b>CHAR:</b> Mitch Graham
9.10am	OVERHEAD DESIGN GROUP	S McCreedy	
9.25am	WHAT ARE THE ROLES AND RESPONSIBILITIES OF LINE DESIGNERS AND WHAT SHOULD YOU BE AWARE OF?	R Douglas	
9.40am	OVERHEAD LINE DESIGN MICRO-CREDENTIAL	R McCrone	
10.00am	MICRO CREDENTIALS LEARNERS SURVEY	R McCrone	
<b>10.10–10.30am Morningtea</b>			
10:30	FEEDBACK ON MICRO-CREDENTIALS	R McCrone	Table talk session to provide feedback on micro-credentials
10:45	SEISMIC DESIGN	M Crane	
11:10	A COUPLE OF SEMI-REGULAR CONVERSATIONS	C Rathbone	
11:35	SAFETY IN DESIGN	M Clark	
<b>12.00–13.00 Lunch</b>			



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# Programme

13:00	PANEL SESSION – OVERHEAD DESIGN GROUP FEEDBACK	<b>MODERATOR</b> D Brown	<b>PANEL</b> Rob McCrone, Carl Rathbone
13:20	<b>PARTICIPANT PRESENTATIONS</b>	WEL networks 33kV steel pole defects	Helen Gilbert: BECA
13:30		Strain rigging on ACSR conductors	Liang Li : <del>Electrix</del>
13:40		Screw Piles	<del>Edwin Colaco</del> : Jacobs
13:50		Top Energy design tools	Steven Copper: Top Energy
14:00		Survey and modelling of transmission lines	Tim Hoskins: Transpower
14:10		Composite Arms	Mitch Graham: Unison
14:20		Tonga HV & LV network	Goran Stojadinovic: Transnet
14:30		Foundation design	<del>Jed Coppin</del> : Network Tasman
	<b>PARTICIPANT PRESENTATIONS</b>	ADSS line design & Challenges	James Donald: AECOM
		Overhead line hardware- CPI Wedge	Ravinder Singh: PLP



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# Programme

<b>14:40- 15:10 Break</b>			
<b>15:10</b>	POWERCO GIS SYSTEMS	P Blackmore	
<b>15:30</b>	WOODEN POLE CONDITION ASSESSMENT GUIDE UPDATE	P Blackmore	
<b>15:40</b>	CONDUCTOR CONDITION ASSESSMENT GUIDE UPDATE	P Blackmore	
<b>15:50</b>	EEA ACTIVITIES	S McCreedy	
<b>16:00</b>	<b>PANEL SESSION FORUM</b> – CLIMATE CHANGE IMPACTS  What considerations should designers be allowing for, to cover an increase in environmental loadings such as wind, snow, high temperatures, and how do we manage these?	<b>MODERATOR</b> E Shires	<b>PANEL</b> D Brown, B Albany, P Blackmore
<b>16:20</b>	<b>CLOSE OUT</b>	16.30	<b>FORUM FINISH</b>



# End



# Overhead Designers Group

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## EEA Overview

*The Electricity Engineers' Association ("EEA") provides a focal point for collaboration and thought leadership in **engineering, safety and asset management** across the electricity industry. The EEA enables members to continuously learn and develop in a dynamic and rapidly changing environment.*

- **Collaborates** to identify and prioritise engineering, safety & asset management risks;
- **Promotes** industry risk management through self-regulation using voluntary standardisation;
- A **Trusted Advisor**, responsive to change and provides its Members with market intelligence via a collaborative learning environment;
- Utilises **Collective Knowledge and Goodwill** of its members and partners to provide practical solutions to deliver continual improvement;
- Develops **Policy and Guidance** on common safety, engineering and asset management risks;
- Engages with **Government Agencies** on members behalf;
- Co-ordinates **Communications** and other activities on behalf of members.



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## EEA Working groups

- *National Committee on Live Work*
- *Asset Management Group*
- *Profession Development Group*
- *Public Safety Working Group*
- *SSPG*

### What do they do?

- Provide guidance and direction on areas to focus on
- Develop annual work plans
- Participate in the development of guides
- Recommend guides for approval



## Overhead Line Designers

### *Is there a Need for an Overhead Designers Group??*

#### VISION

Overhead Line Designers developing consistent, efficient, effective, and safe design solutions and design methodologies for overhead distribution networks within the New Zealand electricity supply industry.

#### ROLE

The role of the Overhead Designers Group (ODG) is to provide, leadership, specialist knowledge, coordinate collaboration across industry members and stakeholders, to lead consistent, efficient, effective, and safe design of Overhead lines in the electricity supply industry.



# Overhead Designers Group

## OBJECTIVES (proposed)

- Provide technical leadership to the industry.
- Development and roll-out of new industry standards, regulations and resources (eg EEA publications).
- Develop opportunities to enhance and sustain professional Overhead Line Design practice.
- Develop and foster an Overhead line design professional community.
- Support quality development of relevant learning programmes to meet industry needs.
- To enhance the value of professional development for Overhead line designer engineers.
- Support the development of Overhead line design subject matter experts and future leaders.
- To collaborate with industry, learners, providers and Government to understand industry needs to provide guidance on design requirements.
- To identify, develop and/or support opportunities for coordination of, and foster collaboration in, research and development initiatives associated with overhead lines.
- Develop strategy and annual workplans to deliver the vision, role, and objectives.



# Overhead Designers Group

## Going Forward

- EEA board approval
- Industry support and involvement required

## Feedback Questions

- 1) Is there industry support for such a group?
- 2) What would the group focus on?



# End



## EEA Activities



## EEA Activities

- Safety (Workplace and Public), Engineering, Asset Management, Live Work, Professional Development.
- **Projects**
  - EEA Knowledge Platform
    - Safety Manual – Electricity Industry (SM – EI) review
    - Line mechanic and Cable Joiner HB
  - EEA Guidance
    - Critical safety areas – Low Voltage work; Live Work; Service Connections
    - Asset Management – Asset Condition – Resilience; Wooden Poles; Conductors
- **Professional Development** – ‘Human Capability Management’ – Professional Development Group
  - Line Design – Micro Credential (TEC/NZQA)
  - ESI Workforce Development Strategy to 2030 - Kōhi Whakaaro
  - Technicians working group



## EEA Activities

- **NCLW**
  - Live Work Procedures(part2)
  - Live work training forum
  - Live work auditing
- **Asset Management Group**
  - Connecting generating plant guide update
  - Conductor condition assessment guide
  - Wooden Poles condition assessment guide
  - Webinar series, open networks,
  - Asset Management forum
- **Public safety Working group**
  - Guide to achieve public safety accreditation to AS/NZS 45001
  - Learning team event- car V pole







# Panel Session - Climate change impacts Elizabeth Shires- Powerco



## Panel Session – Climate Change

- What considerations should designers be allowing for, to cover an increase in environmental loadings such as wind, snow, high temperatures, and how do we manage these?



## Panel Session – Climate Change

- What loading capacity should we design our LV networks for given the potential load increases from climate change response?

