

ASSET MANAGEMENT

2017



**EEA.CO.NZ** 



#### Background

The EEA Asset Management Group (AMG):

- Had concerns that Conductor Condition is poorly understood
- Conducted a survey in 2015 on conductor types, failure modes, replacement plans, and conductor inspection / testing techniques employed
- Would like to provide general guidance to industry





## **Working Group**

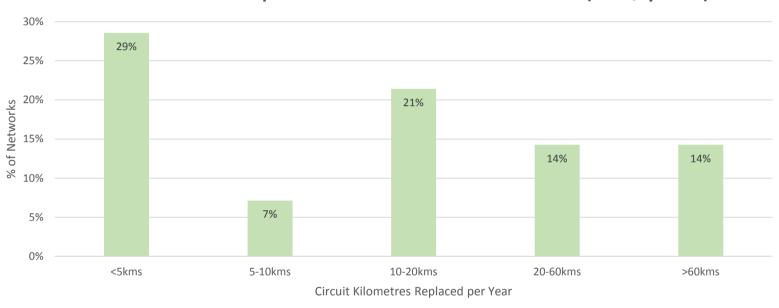
Name	Organisation
Dan Tombleson (Chair)	LineTech Consulting
Ken Pattie	Powerco
Natalie Mitchell-Lowe	Transpower
Merv McKay	Orion
Shaun Brown	Northpower
Scott Muspratt	Vector
Juliet Clendon	EEA

We're currently looking for another member from a Lines company





## Annual Replacement of Conductor (km/year)







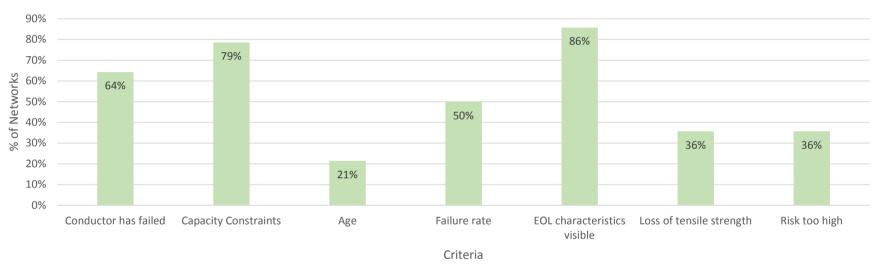








# Criteria for Replacing Overhead Conductor (past 5 years)







#### **Topic Areas**

- Asset data availability
- Bare and covered conductors
- Failure mechanisms/modes
- Service life experiences
- Condition assessment tools/techniques
- Laboratory assessment methods
- Conductor testing in the field





#### Stage 1

- Analyse the results of the 2015 survey
- Report on conductor CA technologies and techniques
- Investigate atmospheric corrosivity maps for NZ
- Summarise existing conductor life experience data
- Report to industry





#### Stage 2

- If the group finds that there is enough knowledge and interest from industry, we may proceed.
- Development of a decision framework for conductor end of life
- Summary of expected life for various conductor / environmental combinations
- Develop a standard scope for conductor laboratory testing





#### Further work

- Subsequent investigations may continue after Stage 2
- Conductor Asset Health Indices





# Questions, comments and feedback?

#### **Contact**

Dan Tombleson, LineTech Consulting dan.tombleson@linetech.co.nz



