







| Aotearoa's power system is set to become more dynamic and distri distribution networks and behind-the-meter which will make dema | buted with more DER (i.e., EVs, solar PV, batteries etc) embedded into the grid & ind/supply more flexible and potentially less predictable. |
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| Key Challenges to Consider - DER/EVs/New Technologies - Leveraging DER to build and operate the future grid - Leveraging new technology to enhance ancillary services - Visibility and observability of DER Key Challenges to Consider - System - System Performance | Key Challenges to Consider - General Cyber security Coordination of increased connections and changing/less predictable customer behaviour Growing skills and capabilities of the workforce Social license |
| Balancing renewable generation Managing reducing system inertia Operating with low system strength Accommodating future changes within technical requirement: Power system modelling Forecasting | s/Performance Standards |
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Asset Management Group

EEA work with members, regulators and industry partners on standardization and key technical issues such as safety, security of supply, reliability and power quality, the management of energy demand, energy efficiency and sustainable energy.

- * EEA produces well utilised Industry Guidelines such as:
 - EEA Asset Information Maturity Framework; Asset Criticality Guide; Asset Health Indicators; Asset Management Maturity Assessment Tool (AMMAT) - (ISO 55001 Asset Management)
 - Resilience Guide (resilience planning to support effective management of issues arising from major emergency events)
 - Safety in Design Guide
 - Risk Based Vegetation Management Guide

Electricity Engineers' Association

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- * EEAs current work programme for guidelines includes:
 - Resilience Guide (update) ; Power Quality Guide (update); DER Connection Guidelines (new)
- Knowledge sharing Asset management forums, events, and webinars ; EEA Conference 10-12 Sept 2024 (Chch)
- 🔹 National Equipment Defect Reporting System NEDeRS® Provides access to international database on electrical equipment defects
- Engagement and input into relevant international standards (IEC, ISO, AS/NZS, IEEE, CIGRE)





