

Who, What, Why

ALCAG - A SUPPLEMENT TO THE AMG

ASSET LIFE CYCLE ANALYSIS GROUP

- To improve power system asset life cycle analysis, with a view to improving investment decision-making within the electricity supply industry
- We will achieve this through sharing our practical experiences in undertaking asset life cycle analysis, investigating best practice approaches, developing a common understanding of relevant regulatory frameworks and developing communal methods if and where applicable
- We are a knowledge sharing and learning group

POTENTIAL TOPICS

- How the demand curve is changing;
- Demand forecasting;
- Whole-of-life costing approaches;
- End-of-life decision-making;
- Evaluating programmes of work v individual investments;
- Capex-opex trade-offs;
- Which costs and benefits to evaluate;
- Using unquantified benefits;
- Investment decision-making criteria;
- Considering investments with implications for both transmission and distribution;
- Using sensitivity analysis;
- Economic analysis parameters eg time period, discount rate, Value of Lost Load;
- High Impact Low Probability analysis.

PRIORITY TOPICS

- * Asset end-of-life decision-making.
- * Compare whole-of-life costing approaches.
- Cultivate a common understanding of relevant regulatory frameworks.
- Compare approaches for evaluating programmes of work v individual investments.
- * Are there others we should be prioritising?

ASSET END-OF-LIFE DECISION-MAKING

- * An extension of the Asset Health Indicator guide
- Asset criticality
- Understand how to move from a known quantified position (AHI is a snapshot of asset health) to a replacement decision?
- Understand the economic consequences of asset replacement vs no replacement
- Determine best practice approaches for end-of-life decision-making which reflect asset health and criticality and other approaches (simple approaches through to the use of CBRM) including more economic-based approaches
- Describe how different approaches can be used for both individual and fleets of assets
- Will utilise Treasury's Better Business Case (BBC) framework to make end-of-life decisions
- Use of unquantified benefits
- Safety investigate both quantitative and qualitative approaches for valuing investment in safety
- Are there other issues we should particularly focus on?

MEMBERS TO DATE

- Brian Baier Northpower
- Jonathon Battson Transpower
- Dave Brannigan Orion
- Paul Christie Alpine Energy
- Glenn Coates Orion
- Karen Frew Powerco
- Neil Gregory Meridian Energy
- Josh Lloyd Unison
- Mike Parker Transpower
- Tod Trotman Network Waitaki
- × plus
- Paul Sutton Project Results
- More members are welcome