

Electrical Utility Reliability Trends

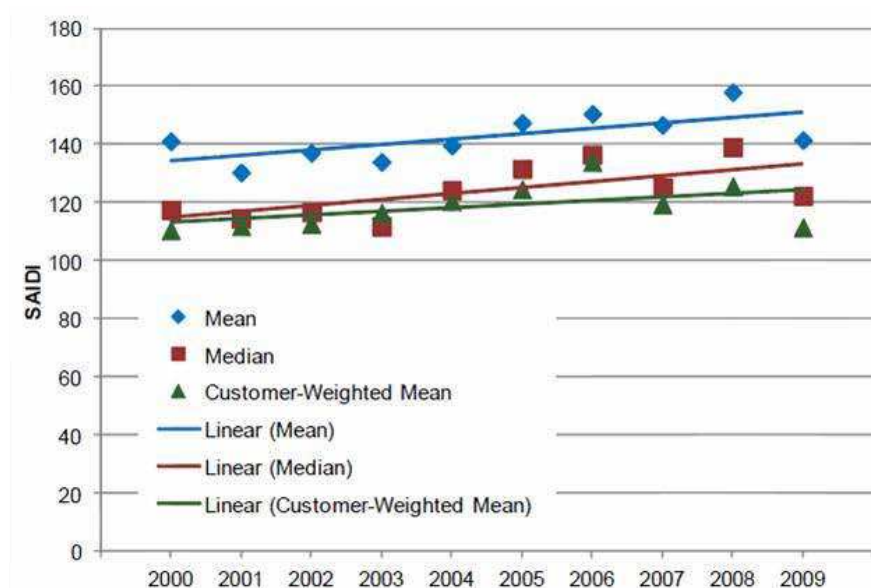
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ELECTRICAL UTILITY RELIABILITY TRENDS

The following pages present a summary of three reports on the performance of electrical utilities worldwide, within a 10+ year timeframe. This is measured by SAIDI (System Average Interruption Duration Index) i.e. the measure of average outage period experienced by the typical customer. Tait Communications is sharing this in the interest of providing information with other stakeholders in the electrical utilities industry. The objective for Tait, through their wireless communications capabilities and skills, is to assist our utility customers with improved workforce management, grid monitoring and control. It is important to note that all of the information within this report is sourced from previously published evidence by, or on the behalf of a government or regulatory body.

ANALYSIS OF SAIDI - THE USA



USA SAIDI without Major Events - All Reported Reliability Data

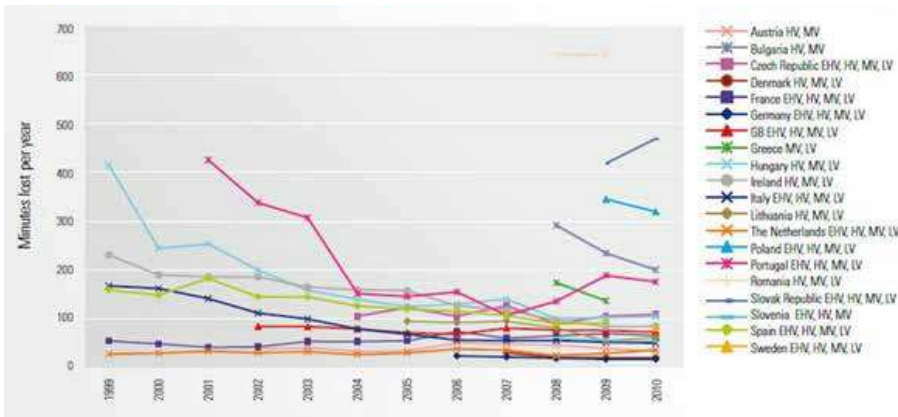
After an analysis of the SAIDI performance of roughly half of investor owned utility organisations, the US Department of Energy found that SAIDI had gotten worse, rather than making an improvement over the 10 year time frame, even when major storms are excluded. An interesting observation from the report was that utilities that install outage management systems appear to have better visibility of these events and the effect which they have on SAIDI.

To view the report in its entirety, please visit: [An Examination of Temporal Trends in Electricity Reliability, Lawrence Berkeley National Laboratory.](#)

ANALYSIS OF SAIDI - EUROPE

The report published by the European Union analysing the reliability of electric utilities clearly illustrates the continuing improvement of SAIDI in Europe. Utilities organisations in this region have managed to improve due to the industry-wide sharing of best practise policies as well as individual countries showing the desire to be on the same level as the best performing nations.

To view the report in its entirety, please visit: [5TH Council of European Energy Regulators Benchmarking Report on the Quality of Electricity Supply 2011, CEER.](#)

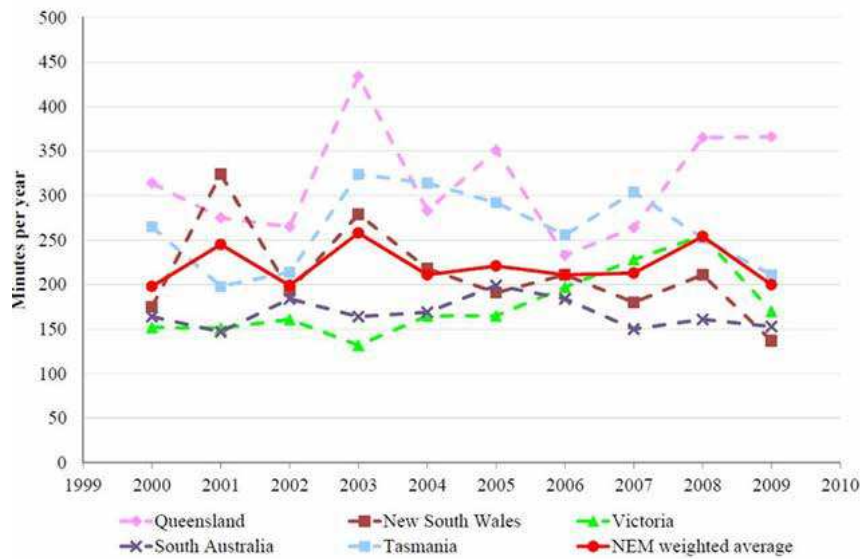


Europe SAIDI without Major Events - All Reported Reliability Data

ANALYSIS OF SAIDI - AUSTRALIA

Australian regulators observed the performance of local utilities through benchmarking them against other organisations from across the globe. Their main focus was to discover how through incentive, utilities could improve their outage performance. The following report illustrates the regulatory incentives that can encourage measures of action to be put in place for improving reliability.

To view the report in its entirety, please click here: [Approaches to Setting Electric Distribution Reliability Standards and Outcomes, Brattle Group.](#)



Australia SAIDI without Major Events - All Reported Reliability Data

CONCLUSION

Although each region has individual characteristics and history determining performance, the similar operational and governance models do facilitate sharing of best practise that can be considered for implementation.

However, drawing direct comparisons between regions to make conclusions on best practise requires caution. The individual characteristics for any particular utility, such as power grid design, operation, governance, regulation and funding, as well as the effect of environmental factors, make for significant difference in what actions are appropriate to improve reliability. Each utility needs to assess according to their situation and priorities what are the most beneficial management actions they can take to improve reliability.

FURTHER INFORMATION

If you would like to discuss these findings or access electronic copies of the reports, please do not hesitate to contact the Tait Solutions Marketing Manager, John Graham at john.graham@taitradio.com.

To find out more about how Tait solutions and services can assist electrical utilities meet their reliability goals please contact your local [Tait service center](#).