

EURELECTRIC Survey on PQM

EURELECTRIC – CEER
Joint Workshop

18 November 2009, Brussels

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Survey on PQ Monitoring: Key Facts

- Timing: Summer 2008
- Background :
 - CEER work on supply quality
 - CEER-Eurelectric dialogue on PQ
- Scope:
 - Extent of Monitoring
 - Views on PQ monitoring & related issues

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Participation

- 23 DSOs Participated
 - 120 M Customers
- 2 National Associations

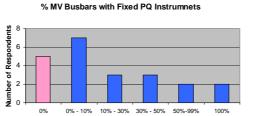
• 16 Countries represented



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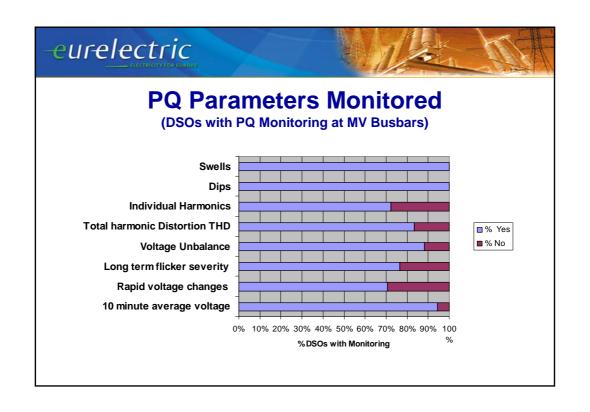
Power Quality instruments on MV Busbars in HV/MV Substations

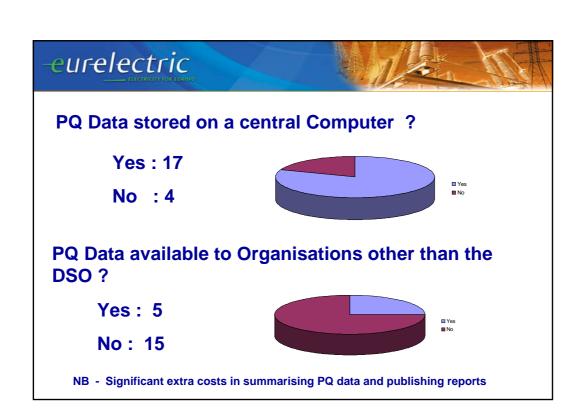
• 82% DSOs have PQ Monitoring at some HV/MV substations



% MV Busbars with Fixed PQ Monitoring

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- Approx 50% of DSOs monitor between 0% and 30% of MV Busbars





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Objectives of Fixed PQ Monitoring

- Monitor PQ trends over time
- · Confirm that PQ is within planning limits
- Provide information to DSOs to :-
 - Validate customers complaints of PQ disturbances
 - Assist customers with mitigation measures
 - Assist customers with location decisions for sensitive processes
- Monitoring performance where a PQ contract has been agreed

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Extent of Monitoring

- Not necessary to monitor all HV/MV substations
- Representative sample
 - Urban / Rural
 - Geographic Spread
- Strategic Locations
 - Concentration of sensitive/important customers
 - Concentration of embedded generation
- Portable Instruments
 - Necessary to investigate customer complaints

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Voltage DIPs

- Some customers sensitive to voltage dips
 - Economically important customers
- Economic solution is often on customers side
- DSOs generally not in favour of revenue incentive
 - All customer would pay
 - Small number of customers would perceive benefit

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Conclusion

- DSOs view PQ as important
 - Many DSOs have some monitoring already
- Costs can be significant
 - Important to keep in mind objectives
 - Important to allow for costs in revenue/price controls