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Agenda

DAY 1: Utility Case Studies Demonstrating The Business Case & Reliability Benefits Of Distribution Automation

Chair: Camilo Serna, Director Strategic Planning For Energy Productivity, **North Utilities**

8.00 Coffee & Registration

08.50 Chair's Opening Remarks

KEYNOTE OPENING PANEL

9.00- 9.45 Demonstrating The Business Case For Distribution Automation: How Do Reliability Benefits Translate To Dollars?

Evaluating the value of distribution automation from a commercial operations standpoint to discover how commercial benefits are translated

Deciphering how valid the exploration of Distribution Automation to a wider system could potentially be for utilities in the near future

Understanding how utilities are quantifying the benefits of an automated system from a commercial perspective and how this is driving investment in infrastructure

Assessing predictions for potential long term gains, and the metrics on which the predictions are based for better understanding of utility benefits

Examining the level of priority that Distribution Automation holds in utilities' Smart Grid deployment programmes and what this indicates about the potential value of automation for future operations

Documenting ancillary benefits of installing an automated distribution system

Evaluating whether commercial and operational values can be balanced within business cases to validate expensive grid upgrades

Bruce Walker, Vice Chair, **Gridwise Alliance**

Stephen Summerville, General Manager New Business Ventures, **Arizona Public Service**

Camilo Serna, Director Strategic Planning for Energy Productivity, **Northeast Utilities**

9.45- 9.55 Extended Question & Answer Session

THE BUSINESS CASE

Justifying The Reliability & Economic Benefits Of Distribution Automation Against Cost

RELIABILITY STATISTICS ON RESTORATION TIMES

09.55 Examining The Contribution Distribution Automation Can Make To SADI/SAFI Statistics To Determine The Overall Affect On Grid Reliability

Evaluating whether there is a measurable improvement in the amount and duration of outages on circuits where distribution automation is implemented

Deciphering if automation increases control sufficiently for utilities to formulate better estimations of restoration time

Analyzing the ability of automated circuits to better define MAFI statistics for the utility to write better specifications

Discussing how reliability improvements are interconnected with commercial optimization routines

Joe Loporto, Manager Distribution Automation & Special Projects, **Pepco Holdings**

10.35 Question & Answer Session

10.45 Morning Refreshments Served In Exhibition Showcase Area

CASE STUDY

11.15 Assessing The Benefits Of Integrating Distribution Automation With Outage Management Systems For Improved Reliability

Discussing how AMI and smart meters can be integrated with distribution automation for effective monitoring and restoration of outages

Detailing the benefits of assessing overload conditions using automation to enable utilities to move towards predicting outages

Evaluating the effectiveness of distribution fault location and transfer schemes within outage management systems to restore power in a timely manner

Assessing the potential of Distribution Automation to eliminate the need for emergency response in the future by directing utilities to equipment that needs replacing at an early stage

Heather Cummins, Director Asset Management and Process Improvement, **Avista Utilities**

11.45 Question & Answer Session

CASE STUDY: OUTAGE MANAGEMENT SYSTEMS

11.50 Detailing The Effect Of Automation On Locating Faults, Directing Personnel, And Minimizing Maintenance And Repair Costs

Detailing the effect of automation on control devices such as capacitors and reclosers and how this aids the more efficient operation of the system during outages

Understanding how utilities are using their IEDs, AMI and communications infrastructure to accurately locate faults on the distribution line

Assessing the amount of detail in which utilities are able to monitor stresses and potential outages on the system

Analyzing the influence distribution automation has had on field personnel and the maintenance of technology from a logistics perspective

Ray Marquez, Coordinator- Renewable Technology Integration, **EI Paso Electric**

12.20 Question & Answer Session

12.25 Introduction by Official Luncheon Sponsor, S&C

Mike Edmonds, Global Smart Grid Strategies Director, **S&C Electric Company**

12.35 Networking Lunch Served In Exhibition Showcase Area

SCHEMES FOR OUTAGE RESTORATION

1.35 Evaluating Optimal Automated Schemes For Utilities To Isolate Faults And Effectively Restore Outages In a Timely Manner

Detailing the processes behind utilities' selection of appropriate schemes to transfer loads and maintain circuit reliability

Documenting the pros and cons of various available schemes such as transfer schemes, loop schemes and TCL schemes

Evaluating the role of DMS in circuit reconfiguration and experiences with a system that both suggests controls and automatically puts schemes into effect

Analyzing how utilities decide if equipment is able to handle transfers of load and strategies that are in place to minimize risks to circuits

Lee Willis, Sr VP & Fellow IEEE, **Quanta Technology**

2.15 Questions & Answer Session

VOLTAGE OPTIMIZATION

2.25 Evaluating The Benefits of Coordinating Volt/Var Applications With The Distribution Automation System To Improve Operational Efficiency

- Assessing how voltage optimization can reduce loads and demands and how this can translate into commercial gain
- Quantifying the amount of flatness that Volt/Var controls have added to the voltage profile
- Understanding the role distribution automation plays in monitoring how much leeway utilities have on driving circuits to different loading levels to protect critical assets
- Evaluating the use of either AMI or voltage sensors to monitor improvements in the flatness of voltage profiles

Michael Born, Principal Engineer- Distribution Capacity Planning, **ComEd**

3.00 Question & Answer Session

3.05 Afternoon Refreshments & Networking

RENEWABLES INTERMITTENCY SMOOTHING

3.35 Assessing The Capabilities Of Distribution Automation To Aid Intermittency Smoothing For Renewable Energy Resources

- Detailing how distribution automation can smooth operations for renewables in episodes where power is not available
- Evaluating how utilities are incorporating weather prediction into algorithms and how automation can help the reaction to losses of power on the grid
- Assessing the behavior of circuits under a large penetration of photovoltaic inverters and the role of automation in regulating voltage
- Understanding how distribution automation can be used to protect circuits from cycles with high voltage linked renewable resources

Haukur Asgeirsson, Manager Power System Technologies, **DTE Energy**

4.05 Question & Answer Session

4.10 Understanding How Grid Storage Systems And Distribution Automation Will Interconnect In The Future To Support Reliability To The Customer

- Analyzing how energy storage units will aid peak load shaving and Volt/Var support of the distribution system to directly facilitate reliability to the customer
- Discussing what the first steps are towards defining dispatchability for storage in terms of ratings for power and energy
- Assessing the latest work being done to implement the communications infrastructure for storage facilities
- Understanding how the duration and availability of power from storage systems will aid utility operations and grid reliability on a distribution level in the future

Thomas F Weaver, Manager- Distribution System Planning, **American Electric Power**

4.40 Question & Answer Session

4.50 Chair's Closing Remarks & The End Of Day 1

5.00 – 6.00 Eveining Drinks Reception For Spakers & Delegates

DAY 2: Examining Technical Implementations Steps In The Field And Technologies For Optimal Management Of Distribution Automation And The Grid

Chair: Keith Lorenzetti, Director Business Effectiveness, **Iberdrola USA**

7.50 Coffee & Registration**8.30- 9.00 Keynote Opening Address**

Terence Donnelly, Executive VP Operations, **ComEd**

Assessing The Technologies And Level Of Interoperability Necessary For The Implementation Of An Efficient And Effective Communications Infrastructure**KEYNOTE PANEL: COMMUNICATIONS INVESTMENT FOCUS****9.00- 9.40 Discussing Where Investments In Communications Infrastructure Should Be Channeled To Maximize Long Term Operational Benefits For The Utility**

Understanding current approaches and processes utilities adopt to determine which investments are going to best benefit distribution automation infrastructure

Detailing the criteria that utilities have in place to evaluate benefits of communications, including price, availability and performance

Assessing which protocols are viewed as most widely used in the industry, and whether investments should be focused around particular standards to maximize interoperability

Evaluating potential time scales for interfacing communications with existing customer systems and maintenance issues going forward

Bruce Walker, Vice Chair, **Gridwise Alliance**

Matthew Green, Program Director, Smart Grid, **PPL Electric Utilities**

William Torre, Chief Engineer, **San Diego Gas & Electric**

Kim Halverson, Project Manager, Energy Delivery, **Alliant Energy**

Karen O' Connor, Manager Distribution Engineering, **Alliant Energy**

9.45 Extended Question & Answer Session**Examining Optimal Communications Architecture & Installation Steps****IMPLEMENTATION CASE STUDY 1****09.55 Evaluating Best Practices For Developing Communications Infrastructure Models And Strategies For An Efficient Networked System**

Understanding approaches for architecting communications environments to handle the extra equipment on the line and information coming back to the utility from an automated system

Analyzing experiences to determine if there are any key benchmarks or models utilities are designing communications systems around

Discussing the size that a communications system can be scaled to and what logic is being programmed into computers to respond to inputs from the field

Detailing technical and strategic issues both encountered and anticipated in the move towards a dynamic real-time loading system

Kim Halverson, Project Manager, Energy Delivery, **Alliant Energy**

Karen O'Connor, Manager Distribution Engineering, **Alliant Energy**

10.20 Question & Answer Session**10.25 Morning Refreshments Served In Exhibition Showcase Area****IMPLEMENTATION CASE STUDY 2****10. 55 Technologies And Approaches For Designing Communications Infrastructure To Support Distribution Automation**

Examining whether a centralized or decentralized system provides optimum control of automated devices and the logic behind utilities' assessments

Analyzing the ramifications for programming that come from a centralized or decentralized system and approaches to how this can be managed
 Detailing the results utilities have had with specific communications systems and configurations including time lag before operations occur
 Evaluating installation and maintenance issues that arose from implementing either a centralized or decentralized communications system, and the overall effects on cost

William Torre, Chief Engineer, **San Diego Gas & Electric**

Debbie Henderson, Solution Architect, **Trilliant**

Al King, Director Applications Engineering, **CalAmp**

11.55 Question & Answer Session

DEVICES

Evaluating The Position Intelligent Electronic Devices Occupy In A Dynamic, Self-Healing System & Associated Maintenance & Cost Issues

12.05 Establishing the functional requirements of IED's to improve the reliability and reduce operating costs of sparse overhead networks

Discussion of key challenges in improving reliability of sparse networks including, types of faults, outage reporting, communications infrastructure, fault finding, supply restoration and line performance statistics.

Determination of the key functionality of IED's to improve sparse network reliability. Discussion on the range of IED's currently available and how they address the issues identified. This to include the performance of reclosers, fault indicators, fuses, drop out sectionalizers and fuse saving devices.

Presentation of a case study on the payback analysis conducted by a utility in deploying a range of fuse saving IED's on a sparse network to improve reliability and reduce operating costs.

Brett Watson, Managing Director, **Kaon Electric**

12.25 Question & Answer Session

12.30 Networking Lunch Served In Exhibition Showcase Area

Assessing The Performance Of Different Communications & Analyzing Potential Security Issues For The Optimal Selection Of Network Technologies

COMMUNICATIONS EVALUATION

1.30 Evaluating The Performance Of Communications Technologies In Terms Of Network Latency, Speed And Reliability To Evaluate Overall Cost Effectiveness

Assessing the different communications including Power Line Carrier, Fiberoptics, Spread Spectrum Radios and Mesh Networks for speed and network latency
 Deciphering how key metrics such as range, bandwidth and throughput are affected by adverse weather conditions

Examining optimal communications for specific service areas to define which technologies are most appropriate for urban or rural environments

Analyzing how well specific communications interface with a heading system, be it SCADA or a DMS

Douglas McGinnis, IT Manager of Communication Infrastructure Strategy, **PECO**

1.55 Question & Answer Session

WIRELESS NETWORKS

2.00 Examining The Long Term Performance Of Wireless Networks And Potential Collaboration With Third Parties To Establish Optimal Wireless Communications Strategies

Weighing up the benefits versus cost of utilizing a wireless communications system in terms of reliability, speed and network latency

Assessing the performance of wireless communications at times when more control is necessary, such as during storms and other harsh conditions

Evaluating pros and cons of contracting out communications to third parties including assessment of the reliability principles that went into constructing those third party networks

Deciphering the Federal Communications Committee's approach to the reallocation of wireless frequencies and what this could potentially mean for utility deployment of wireless systems

Lee Lipes, Wireless Product Manager, **RuggedCom**

2.25 Question & Answer Session

SYSTEM SECURITY

2.30 Understanding What Steps Are being Taken To Secure IP Networks And The Role of Critical Infrastructure Protection To Assess System Security Requirements For The Future

Analyzing what the perceived risks are to cyber security with the use of public networks and third party carriers from a data encryption standpoint

Assessing whether allocating the communications pass to third parties constitutes a loss of control of information

Understanding industry guidelines on the sharing of mission critical information between business groups to both maximize profitability to the industry but maintain the security of real time data

Interpreting the latest release of Critical Infrastructure Protection and what this could mean for encryption or authentication of utility communications systems

Round Table Discussion facilitated by Keith Lorenzetti, Director Business Effectiveness, **Iberdrola USA**

3.00 Afternoon Refreshments Served In Exhibition Showcase Area

Evaluating The Role Of A Distribution Management System In Aggregating Data From IEDs & Suggesting Operational Controls

DMS ARCHITECTURE

3.25 Deciphering The Capabilities Of A DMS System To Assess And Automate Processes In The Field For More Streamlined Operation Of Distribution Systems

Weighing up the cost/benefits of using a DMS system in terms of reliability and the management of operations in the field, such as pre-planned switching

Discussing first steps towards a load flow study for a DMS to facilitate the safe automated transfer of loads across the system

Deciphering on which models DMS systems operate and how this affects capabilities to assess voltage levels and other applications

Understanding if a DMS is seen as a prerequisite to Distribution Automation and what this could mean for grid upgrades

Matthew Green, Program Director Smart Grid, **PPL Electric Utilities**

3.50 Question & Answer Session

DMS DATA AND PROGRAMMING

3.55 Managing The Use And Integration Of DMS, Various Applications And Distribution Automation Equipment

Assessing the level of detail DMS systems and other applications can provide to utilities

Analyzing how successful a DMS system is at providing the grid-op centre with clear field data for analysis

Examining applications such as fault location and which applications are deemed the most useful by utilities

Understanding processes behind software selections and methods for efficient integration of control solutions

Ed Carlsen, Manager DMS Systems, **Georgia Power**

Ed Hedges, Manager Smart Grid Technology Planning, **Kansas City Power & Light**

4.50 Extended Question & Answer Session

5.00 Chair's Closing Remarks & End Of Conference

Distribution Automation 2011

Distribution Automation engineering and outage management for smart grid, including asset protection, SADI SAFI, intelligent devices, communications t

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