It is with great pleasure to welcome you to our tenth annual Energize – Smart Energy Conference.

Elster Solutions combined with Honeywell Smart Grid Solutions and is now Honeywell Smart Energy. It is an exciting time at Honeywell and as a valued customer, we want to share it all with you.

Honeywell Smart Energy enables you to deploy advanced capabilities that transform operations, reliability, and environmental sustainability; while also providing solutions to engage your customers in a more meaningful way.

This year’s conference is full of thought provoking case studies, valuable workshops and a Tech Expo with some of our partners. The variety of networking events will provide you generous opportunities to learn from your peers and bring back those experiences to your community.

We have announced the acquisition of Elster by Honeywell and I want to personally thank each and every one of you for your patience and continued support as we work through this process. I also want to recognize our partners and sponsors and thank them for their support. Together, Honeywell Smart Energy, its customers and partners, are fundamentally reshaping the way the world uses energy.

Energize 2016 is a great place to learn how this collaboration will benefit your utility, your customers and your community. We hope you enjoy your time here at the conference and look forward to building and growing the power of our partnerships now and in the future.

Sincerely,

Jeff Tolnar
President Elster Solutions
VP/GM Honeywell Smart Energy
As Corporate Vice President, Chief Strategy and Marketing Officer, Rhonda Germany works closely with senior leadership at Honeywell to develop strategic frameworks for our growth initiatives worldwide. She also works closely with the Country Managers for China, India and Japan to drive aggressive growth strategies, and leads Honeywell’s annual Strategic Planning process, as well as marketing functional excellence, including the Strategic Marketing Program.

Prior to Honeywell, Germany was with Booz, Allen & Hamilton, where she served as Vice President, Partner, Board Member and Member of the Board’s Personnel Committee. Prior to that, she ran an independent consulting firm specializing in strategic planning. She has also held management positions at Chem Systems Inc. and Union Carbide. In her early career, she held sales, market development and marketing positions, and ran a joint venture.

Germany earned a bachelor’s degree in chemical engineering from the University of Michigan and an MBA in finance from the University of Connecticut.
Schedule of Events

SUNDAY, OCTOBER 9

8:00AM – 4:00PM
CRYSTAL REGISTRATION DESK

9:45AM
RETURN APPROXIMATELY
4:00PM
MEET IN LOBBY

10:30AM
MEET AT HAWK’S LANDING ON
THE MARRIOTT PROPERTY

7:00 – 9:00PM
WEST TERRACE

REGISTRATION OPEN

LAKERIDGE WINERY & VINEYARDS TOUR AND TASTING
Meet us in the lobby by 9:45AM; the bus will depart at 10:00AM. The tour will start at 11:00AM. Box lunches will be provided. Advance registration required.

TENTH ANNUAL ENERGIZE GOLF OUTING
Golf balls, tees, and box lunches will be provided. Tee time 11:00AM. Advance registration required.

ENERGIZE 2016 WELCOME RECEPTION
Please join us for heavy hors d’oeuvres, refreshing drinks, and a chance to meet and mingle with other delegates from utilities throughout North America. All delegates, registered guests, sponsors, and exhibitors are welcome!

ON YOUR OWN ACTIVITIES
Looking for more to do around town? Take a sightseeing tour around the city or go shopping at Orlando Premium Outlets with 160 stores just minutes from the hotel. If you are the water type, try jet-skiing, swimming with dolphins or manatees, or take a day trip to Daytona Beach. Of course, you can always stop by the Kennedy Space Station or one of the many theme parks nearby. Plenty of options in Orlando!
## Schedule of Events

**MONDAY, OCTOBER 10**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30AM–5:00PM</td>
<td><strong>REGISTRATION DESK AND CONFERENCE OFFICE OPEN</strong></td>
<td>CRYSTAL REGISTRATION &amp; SAN FRANCISCO</td>
</tr>
<tr>
<td>7:00–8:30AM</td>
<td><strong>BREAKFAST</strong></td>
<td>CRYSTAL H</td>
</tr>
<tr>
<td>8:30–9:15AM</td>
<td><strong>WELCOME AND ENERGIZE 2016 KICK-OFF</strong></td>
<td>CRYSTAL G</td>
</tr>
<tr>
<td>9:15–10:00AM</td>
<td>**THE POWER OF HONEYWELL</td>
<td>SMART ENERGY**</td>
</tr>
<tr>
<td>10:00–10:15AM</td>
<td><strong>BREAK</strong></td>
<td>CRYSTAL FOYER</td>
</tr>
<tr>
<td>10:15–11:00AM</td>
<td><strong>KEYNOTE: WHAT THE CYBER INDUSTRIAL TRANSFORMATION MEANS FOR UTILITIES</strong></td>
<td>CRYSTAL G</td>
</tr>
</tbody>
</table>

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Welcome to the Energize Smart Energy Conference, our TENTH annual user group event! Join us as Mike describes how utilities will enjoy the benefits resulting from Elster’s integration into Honeywell. This session includes a salute to our newest EnergyAxis users, and a special welcome to Honeywell energy efficiency and demand response customers joining us this year.

The acquisition of Elster by Honeywell is fusing two global industry leaders into a single powerhouse that is reshaping the way the world uses energy. Jeff shares the vision for Honeywell Smart Energy and its potential to accelerate your utility’s goals, and strengthen relationships with your customers and communities.

Connectivity and data are changing technology across industries and throughout the global economy. New capabilities resulting from cloud computing and analytics offer unprecedented innovation for residential, commercial and industrial sectors. The IIOT (industrial internet of things) harnesses sensor data and machine communication resulting in smarter machines and buildings. We are at just the beginning of where this will go.

The industrial sectors currently produce 2.5 billion gigabytes of data every day from networked devices and systems. Honeywell is developing advanced solutions from this data, creating new opportunities for utilities to identify energy efficiency, power quality and usage patterns that allow for new relationships with customers. Similarly, utilities with AMI systems are generating huge and potentially invaluable data resources. When connections across ecosystems occur, this enormous data output promises to help reduce downtime, increase system reliability, boost productivity, efficiency, improve safety for workers and the community, and protect against cyber security threats.

Join us as Rhonda lays out Honeywell’s vision for how the coming transformation will help to reshape the way the world uses energy.
## Schedule of Events

### MONDAY, OCTOBER 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-11:30AM</td>
<td><strong>STRATEGIC ROADMAP OVERVIEW</strong></td>
<td>Ann Perreault, Honeywell Smart Energy</td>
</tr>
<tr>
<td>11:30-11:45AM</td>
<td><strong>BREAK</strong></td>
<td></td>
</tr>
<tr>
<td>11:45AM-12:30PM</td>
<td><strong>DETAILED ROADMAP 1: EDGE DEVICES TO SMART CITIES</strong></td>
<td>Harris Glover, Cedric Taylor, Honeywell Smart Energy</td>
</tr>
<tr>
<td>11:45AM-12:30PM</td>
<td><strong>USING SERVICES TO OPTIMIZE EFFICIENCY AND ENHANCE CUSTOMER SERVICE</strong></td>
<td>Tom McMahon, Cheryl Dahl, Dan Eddinger, Honeywell Smart Energy</td>
</tr>
</tbody>
</table>

**Detailed Roadmap 1: Edge Devices to Smart Cities**

This guided tour explores our trajectory for core AMI and smart cities initiatives that include sensors, meters, DR, DA and DG enabling devices all built on an Internet of Things communications platform for edge devices. We will cover energy management, network communications, and security as well.

**Using Services to Optimize Efficiency and Enhance Customer Service**

In this interactive breakout, Tom, Cheryl and Dan will use scenarios to show how Honeywell service offerings can give your utility strategy, or your AMI deployment, the additional lift and momentum you need to optimize operational efficiency and boost your customer service.
MONDAY, OCTOBER 10

12:30-1:30PM
LUNCH
CRYSTAL H

1:30-2:15PM
BREAKOUT SESSIONS
GRAND 11-12

DETAILED ROADMAP 2: DATA ANALYTICS MAKE POTENTIALITY INTO REALITY
Harris Glover, David Young, Honeywell Smart Energy

Data alone can overwhelm—not assist. In this session, we explore utility benefits derived from Honeywell’s integrated focus on data analytics through our IIOT (Industrial Internet of Things) solution. If Roadmap 1 was the fuel, Roadmap 2 provides the vehicle that will take you where you need to go.

GRAND 13-14

A GOOD CYBER SECURITY DEFENSE REQUIRES A GOOD OFFENSE
Kevin Staggs, CISSP, CSSLP, Honeywell

As we continue to evolve our critical infrastructure systems with increased connectivity, we are also increasing the risk of cyber security incidents impacting our economy, safety, health, environment and communications. Mitigating this cyber security risk requires that utilities, system integrators, service providers and vendors implement holistic cyber security programs. Kevin will cover the essentials of a cyber security risk management program which includes keeping up with the current threats that exist against systems and technologies in the power sector.
**Schedule of Events**

**MONDAY, OCTOBER 10**

2:15-2:30PM  
**BREAK**  
GRAND FOYER

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**BREAKOUT SESSIONS**

2:30-3:15PM  
**CAN YOUR UTILITY BENEFIT FROM AN INTERNAL USER GROUP?**  
Les Smith, Supervisor Electric Department, City of Tallahassee, FL

City of Tallahassee’s electric, water and gas services and groups such as field services, purchasing, and customer service weren’t communicating effectively with each other. To improve its AMI system operation, the City launched a series of meetings beginning in 2015. At first, participants focused on troubleshooting issues. But as common business practices were established, training elevated, and open communication enhanced, the utility’s “AMI Coordination User Group” meets less often and accomplishes more. Learn how you can apply these practices to improve your own team’s performance.

GRAND 11-12

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**PUTTING THE CUSTOMER AT THE FOREFRONT OF YOUR DR PROGRAM**  
Stephanie Johnson, AEP/Public Service Company of Oklahoma (PSO)  
Chris Studer, East River Electric Power Cooperative  
Moderator: Jeffrey Beale, Honeywell Smart Energy

Demand Response can be a confusing topic to residential customers. Helping the customer understand through marketing engagement and enrollment tactics can assist with program clarification and increase customer satisfaction. This session will focus on ways to put the customer first and effectively conveying the value and benefits of customer participation.

GRAND 13-14

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3:15-3:30PM  
**BREAK**  
CRYSTAL FOYER

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3:30-4:15PM  
**PRIORITIZING NEW DIRECTIONS AS THE UTILITY INDUSTRY MAKES A PARADIGM SHIFT**  
Aaron Bean, Westfield Gas & Electric

Since 2012, Westfield Gas & Electric focused on getting the EnergyAxis System operational throughout their gas and electric service territories. Now, with the shift from monthly consumption reads to a wealth of near-real-time data, the door is open to an abundance of additional efficiencies and customer services. But what standards do you use to pick the projects to pursue? Aaron shares the processes Westfield uses to evaluate and prioritize new applications and opportunities as the utility industry comes of age.

GRAND 11-12
Schedule of Events

MONDAY, OCTOBER 10

GRAND 13-14

4:15–4:30PM
CRYSTAL FOYER

PER SPECTIVES FROM RAPID TRANSITION AND EARLY ADOPTION
Logan Pleasant, P.E., Lake Region Electric Cooperative, Hulbert, OK

Lake Region Electric Cooperative piloted EnergyAxis 9.2 with 1000 meters in 2015, then upgraded to EnergyAxis 10.2 with Connexo in early 2016 to begin their full system roll-out. With a mix of REX2 and REXUniversal meters and experience with both EA_MS and Connexo, Logan will share lessons learned from Lake Region’s transition from PLC to mesh, and from EnergyAxis 9.2 to 10.2.

4:30–5:00PM
CRYSTAL H

BREAK

5:00–6:30PM

HONEYWELL SMART ENERGY CUSTOMER RECOGNITION

FREE TIME

6:30PM
MARRIOTT LOBBY

MEET FOR TRANSPORTATION TO DINNER.
Business casual attire.

7:00PM
VARIOUS ORLANDO RESTAURANTS

REGIONAL DINNER – UTILITY DELEGATES AND REGISTERED GUESTS ONLY
Enjoy Orlando’s dining scene at some of the best restaurants in the area.
Hosted by Honeywell Regional General Managers.

7:00PM
HAWK’S LANDING

PARTNER DINNER – SPONSORS AND EXHIBITORS ONLY
You are invited to join us for a Honeywell-hosted evening of food and fun.

Enjoy Orlando’s dining scene at some of the best restaurants in the area.
UTILITIES AND SMART CITIES IN THE 21ST CENTURY
Scott Harkins, Honeywell

Although only 16 years in, this century has already posed challenges that threaten the financial and operational stability of utilities. Global economic whiplash, unstable fuel costs, cyber-attacks, and climate change with its potential rising sea levels demand implementation of rapid—as well as thoughtful—responses. Fortunately, emerging technologies can help Utilities’ senior leadership with strategies and tactics needed to strengthen utilities and better serve their communities. Although most CEOs are familiar with point solutions (demand response, energy efficiency, adaptive street lighting, security, and so on), this presentation makes the case for a comprehensive plan that moves forward on many fronts simultaneously.

NON-TECHNICAL LOSS REDUCTION USING AMI TECHNOLOGY
CFE Oriente Distribution Division

The CFE Oriente Distribution Division serves 2.9 million customers with revenues of approximately $5.77 billion Pesos (4,263 GWh) a year. But the Division has a challenge with energy losses of around 13.38%. Under the government’s New Energy Policy, a CFE Distribution Division that doesn’t meet the targets set by the CRE (Energy Regulatory Entity) will face significant penalties: in the case of CFE Oriente, this could amount to approximately $150 million Pesos ($7.9M USD) per year. CFE is using their EnergyAxis AMI technology and specially designed cabinet meters to combat energy losses.
Schedule of Events

TUESDAY, OCTOBER 11

10:00-10:15AM
CRYSTAL FOYER
BRAKE

BREAKOUT SESSIONS

10:15-11:00AM
GRAND 11-12
DISAGGREGATED SMART METER DATA DRIVES ENERGY EFFICIENCY—AND THE FUTURE
Dan Roberts, Hydro Ottawa

Hydro Ottawa is working with Honeywell and a digital engagement platform to disaggregate customer interval meter data. What does this mean? By disaggregating customer interval data, Hydro Ottawa can drive behavioral energy efficiency savings through more effective customer engagement. With a view to the future, the utility is also taking steps to evolve to a new Consumer Centric Utility model. Learn what Hydro Ottawa is planning, and the thinking behind this innovative approach.

GRAND 13-14
RAISING THE BAR ON INCOME ELIGIBLE PROGRAMS
Lorrie Maggio, Duke Energy

Income eligible programs cover a range of customers in various living spaces. Many utilities have experienced challenges in implementing the programs due to outreach barriers. This session explains how to turn challenges into opportunities and improve the customer experience and satisfaction in the process. Your customers and utility have much to gain with a well-structured and implemented income eligible program.

11:00-11:15AM
CRYSTAL FOYER
BRAKE

11:15AM-12:00PM
GRAND 11-12
OUC ADDRESSES CHALLENGES, EXTENDS SERVICES, EXPANDS EXPERTISE
Eddie Fee, Charlie Wright, Orlando Utilities Commission

Orlando Utilities Commission launched its AMI journey in 2005 with a modest pilot deployment. Now with over 235,000 electricity meters and 150,000 water meters operational, and a decade of experience with EnergyAxis, Eddie and Charlie provide an overview of OUC’s latest AMI-related projects, including pre pay), a consumer dashboard, remote connect/disconnect, conservation voltage reduction, meter data analytics, OMS-AMI integration, and using drive-by for hard to reach areas. Bring your questions. These are truly the voices of experience.
Schedule of Events

TUESDAY, OCTOBER 11

MAKING TRADE YOUR ALLY
Wade Williams, FirstEnergy Corp

Utilities across North America share a significant pain point in delivering successful rebate programs: low customer awareness levels. This general lack of customer cognition often leads to smaller enrollment levels and lesser realized energy savings than the filing forecast predicated. Help is on the way. Trade Allies have been underutilized for utility programs for years, mostly because there is a misunderstanding of the value they provide. This session will show you how to harness the power of trade allies in your region to enhance your programs and ensure you are partnering with the right trade allies.

LUNCH

TECHNOLOGY EXPO
## Schedule of Events

**TUESDAY, OCTOBER 11**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-3:30PM</td>
<td><strong>UTILITY DISCUSSION GROUPS</strong></td>
<td>LOCATIONS TO BE ANNOUNCED</td>
</tr>
<tr>
<td></td>
<td>(Open to utility delegates only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Utility delegates will participate in one of six topic discussions based on areas of primary interest. Utility moderators will record and summarize priority findings from each group.</td>
<td></td>
</tr>
<tr>
<td>3:30-3:45PM</td>
<td><strong>BREAK</strong></td>
<td>CRYSTAL FOYER</td>
</tr>
<tr>
<td>3:45-4:30PM</td>
<td><strong>UTILITY FORUM</strong></td>
<td>CRYSTAL G</td>
</tr>
<tr>
<td></td>
<td>(Open to utility delegates and Honeywell only)</td>
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</tr>
<tr>
<td></td>
<td>Utility discussion group moderators report their group’s findings to all Utility Forum participants.</td>
<td></td>
</tr>
<tr>
<td>4:30-5:30PM</td>
<td><strong>TECHNOLOGY EXPO &amp; HAPPY HOUR</strong></td>
<td>CRYSTAL H</td>
</tr>
<tr>
<td>5:30-7:00PM</td>
<td><strong>FREE TIME</strong></td>
<td></td>
</tr>
<tr>
<td>7:00-9:00PM</td>
<td><strong>EVENING WITH HONEYWELL GALA</strong></td>
<td>FAIRWAY TERRACE</td>
</tr>
<tr>
<td></td>
<td>Business or resort casual attire.</td>
<td></td>
</tr>
</tbody>
</table>
# Schedule of Events

**WEDNESDAY, OCTOBER 12**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00AM–5:00PM</td>
<td>REGISTRATION AND CONFERENCE OFFICE OPEN</td>
</tr>
<tr>
<td>7:00–8:30AM</td>
<td>BREAKFAST: SPONSORED BY BADGER METER</td>
</tr>
<tr>
<td>12:15–1:15PM</td>
<td>LUNCH: SPONSORED BY BADGER METER</td>
</tr>
<tr>
<td>1:15-2:15PM</td>
<td>TECHNOLOGY EXPO</td>
</tr>
<tr>
<td>5:00-6:00PM</td>
<td>TECHNOLOGY EXPO AND HAPPY HOUR</td>
</tr>
<tr>
<td>After 6:00PM</td>
<td>DINNER ON YOUR OWN</td>
</tr>
</tbody>
</table>

**Here’s your opportunity to pack two days full of information highly targeted to your needs.**
Energize 2016 offers you the opportunity to pack two days full of information highly targeted to your needs. You’ll participate in workshops with your peers, giving you a rare opportunity to learn how other utilities are addressing challenges similar to yours or increasing operational efficiency in ways you hadn’t imagined.

With up to seven different sessions every hour for two days (100+ hours of training options), you are guaranteed to get the best value from your training dollars!

Most workshops are 45 minutes with a 15 minute break. A few sessions are longer; the length is highlighted in the description. Schedule and workshop descriptions are subject to change.

**SESSION CATEGORIES**

**FUNDAMENTALS**
These workshops give non-technical people a leg-up on understanding how meters and AMI systems work.

**CONNEXO NETSENSE**
Designed to make you a more effective user of the EnergyAxis head-end system. Sessions for beginners and advanced users will ensure you get insights you can put to use today.

**CONFIGURATION AND HARDWARE**
Recommended for metering supervisors and teams, these sessions offer the nuts and bolts of Metercat and hardware configuration, as well as introducing the latest hardware.

**VALUE-ADD SOLUTIONS**
Leverage your existing AMI investment to benefit your customers and your organization. Designed for system architects, project & program managers, utility executives, and customer service professionals.

**DEMAND SIDE MANAGEMENT**
Sessions to help you better understand and leverage programs such as energy efficiency, demand response, load control, along with outreach and education of consumers.

**CONNECTED HOMES AND SMART CITIES**
Build your understanding of how utilities can join and benefit from the IoT revolution.

**WATER AND GAS**
Dedicated to water and gas deployments and operations, including software and battery-powered devices. There are significant "hands on" training opportunities.

**NETWORK COMMUNICATIONS**
A wide range of communication-oriented information designed to help you optimize your network performance and reliability.

**PROJECT DEPLOYMENT AND EXPANSION**
With a focus on field operations, these sessions help you plan and execute for success and efficiency during deployment or expansion.
# Schedule of Events

**WEDNESDAY, OCTOBER 12**

## TRAINING AND INTERACTIVE WORKSHOPS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Miami</th>
<th>St. Louis</th>
<th>Tampa</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td><strong>DSM-09</strong>: Strategies driving success in DR and EE Programs</td>
<td><strong>NS-03</strong>: New in NetSense—user interface enhancements (also 2:15 10/13)</td>
<td><strong>DSM-01</strong>: Leverage your AMI investment for load control &amp; demand response</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>NET-08</strong>: Practical guidelines for implementing modern wireless networks</td>
<td><strong>NS-04</strong>: New in NetSense—device enhancements (also 1:15 10/13)</td>
<td><strong>DSM-02</strong>: Demand Response: solutions that work for you</td>
</tr>
<tr>
<td>10:30 AM</td>
<td><strong>VA-06</strong>: Advanced Cloud Analytics for on-premise AMI!</td>
<td><strong>NET-02</strong>: AxisDetect (geospatial) and Network Visualizer (logical) network tools (also 11:30 10/13)</td>
<td><strong>FUN-02</strong>: Electricity metering basics</td>
</tr>
<tr>
<td>11:30 AM</td>
<td><strong>VA-08</strong>: AMI and Prepay: Maximizing your smart grid benefits</td>
<td><strong>CF-04</strong>: Configuring REX2 meters with Connexo NetSense</td>
<td><strong>NS-07A</strong>: Introduction to NetSense alarms and events (also 9:30 10/13)</td>
</tr>
<tr>
<td>2:15 PM</td>
<td><strong>VA-05</strong>: Making the jump from AMI data to smart grid analytics</td>
<td><strong>NET-04</strong>: EA_Inspector to optimize electricity deployments</td>
<td><strong>NS-09</strong>: Using REXUniversal meters with Connexo NetSense</td>
</tr>
<tr>
<td>3:15 PM</td>
<td><strong>VA-09</strong>: Benefits of AMI integration with SCADA/OMS/DMS</td>
<td><strong>NS-03</strong>: Jobs and Work Items in Connexo NetSense</td>
<td><strong>PDE-02</strong>: Deployment expansions from the field perspective</td>
</tr>
<tr>
<td>4:15 PM</td>
<td><strong>NS-05</strong>: Best practices for AMI system management—electricity (also 11:30 10/13)</td>
<td><strong>NET-03</strong>: Gatekeeper/router installation, set-up and troubleshooting (also 2:15 10/13)</td>
<td><strong>NS-10</strong>: Service connect &amp; disconnect with Connexo NetSense</td>
</tr>
</tbody>
</table>

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*Class schedule and room assignments are subject to change. Most sessions are 45 minutes with a 15 minute break.

**Workshop descriptions begin on page 19*
Schedule of Events

THURSDAY, OCTOBER 13

8:00am–3:00PM

CONFERENCE OFFICE OPEN

SAN FRANCISCO

7:00–8:30AM

BREAKFAST

CRYSTAL H

12:15–1:15PM

LUNCH

CRYSTAL H

3:00PM

HONEYWELL ENERGIZE ORLANDO CONCLUDES.

See you in Tucson in 2017!

TRAINING AND INTERACTIVE WORKSHOPS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Workshop Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Crystal A-B</td>
<td><strong>VA-03</strong>: Outage and restoration monitoring (also 10:30 10/13)</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Crystal A-B</td>
<td><strong>NS-12</strong>: Device troubleshooting in Connexo NetSense</td>
</tr>
<tr>
<td></td>
<td>Crystal C-D</td>
<td><strong>NET-06</strong>: SynergyNet: the next evolution of Connexo NetSense</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Crystal A-B</td>
<td><strong>VA-04</strong>: Connexo Insight meter data management (MDM) for the Americas</td>
</tr>
<tr>
<td></td>
<td>Crystal C-D</td>
<td><strong>NS-13</strong>: Meter temperature monitoring and hot sockets</td>
</tr>
<tr>
<td></td>
<td>Crystal E-F</td>
<td><strong>NS-06</strong>: NetSense administrator configuration options</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Crystal B</td>
<td><strong>NET-02</strong>: AxisDetect and Network Visualizer network tools (also 10:30 10/12)</td>
</tr>
<tr>
<td></td>
<td>Crystal C-D</td>
<td><strong>NS-07A</strong>: Alarms and events (also 11:30 10/12)</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Crystal A-B</td>
<td><strong>VA-03</strong>: Outage and restoration monitoring (also 8:30 10/13)</td>
</tr>
<tr>
<td></td>
<td>Crystal C-D</td>
<td><strong>NS-07C</strong>: Alarms and events: communications</td>
</tr>
<tr>
<td></td>
<td>Crystal E-F</td>
<td><strong>NS-07D</strong>: Alarms and events: theft</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Crystal C-D</td>
<td><strong>NET-03</strong>: Gatekeeper/router installation, set-up and troubleshooting (also 4:15 10/12)</td>
</tr>
</tbody>
</table>

TRAINING AND INTERACTIVE WORKSHOPS**

<table>
<thead>
<tr>
<th>Location</th>
<th>Workshop Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miami</td>
<td><strong>DSM-07</strong>: Energy Management 101</td>
</tr>
<tr>
<td>St. Louis</td>
<td><strong>CF-02B</strong>: Metercat REXU programming overview for EnergyAxis</td>
</tr>
<tr>
<td>Tampa</td>
<td><strong>WG-03</strong>: Manage water and gas devices using Connexo NetSense</td>
</tr>
<tr>
<td></td>
<td><strong>WG-04</strong>: Best practices for AMI system management—water and gas</td>
</tr>
<tr>
<td>8:30 AM</td>
<td><strong>CF-02C</strong>: Metercat components to program WIC-enabled meters for EnergyAxis</td>
</tr>
<tr>
<td>9:30 AM</td>
<td><strong>WG-07</strong>: User exercises and practical application</td>
</tr>
<tr>
<td>10:30 AM</td>
<td><strong>WG-08</strong>: Overview of the latest water metering technologies</td>
</tr>
<tr>
<td>11:30 AM</td>
<td><strong>SC-03</strong>: Connected Home + Smart Grid + Smart City briefing and discussion</td>
</tr>
<tr>
<td>1:15 PM</td>
<td><strong>NS-04</strong>: New in NetSense—device enhancements (also 8:30 10/12)</td>
</tr>
<tr>
<td>2:15 PM</td>
<td><strong>NS-03</strong>: New in NetSense—user interface enhancements (also 8:30 10/12)</td>
</tr>
</tbody>
</table>

*Class schedule and room assignments are subject to change. Most sessions are 45 minutes with a 15 minute break.
** Workshop descriptions begin on page 19
Design a scalable smart grid solution. Drive enterprise transformation.

In communities from Alaska to North Carolina, Leidos works with utilities to deliver Smart Grid Select programs that avoid large, up-front investments, upgrade systems on a sound schedule, and deliver more value from metering data. We are not new to this space – our Smart Grid Select case history is proving there is a more economical way to reap the benefits of a turnkey smart grid solution.

Activate Tomorrow, Today.
leidos.com
## Workshop Descriptions

### FUNDAMENTALS

| FUN-01: Introduction to EnergyAxis: | An end-to-end overview of the EnergyAxis System for non-technical people. This will help you understand how everything fits together, from the meters to the communications to the utility. We will cover the benefits for the utility and the community. Plus, we will discuss how EnergyAxis is safe, secure and protects your privacy. (2 hours) |
| FUN-02: Electricity metering basics | Ever wondered what is the difference between energy and demand? Or what is power factor or rolling demand? Or why some meters have transformers and some don’t? This is a great introduction to electricity metering for IT, customer service and other non-metering utility professionals! |

### CONNEXO NETSENSE

| NS-01: EA_MS 9.2 new user training | Two-hour workshop designed for users who are new to EnergyAxis – new hires or people recently transferred who have not attended full EA_MS user training. It will include system navigation, on request reads, scheduled reads, and basic EA_MS 9.2 reports. (2 hours) Prerequisite: FUN-01: Introduction to EnergyAxis |
| NS-02: Connexo NetSense 10.2 new user training | This two-hour workshop is designed for users who are new to EnergyAxis 10.0 or later- new hires or people recently transferred who have not attended full NetSense user training. It will include system navigation, on request reads, scheduled reads, and basic NetSense 10.2 reports. (2 hours) Prerequisite: FUN-01: Introduction to EnergyAxis |
| NS-03: New in NetSense—user interface enhancements | Workshop will include enhancements to the user interface from EA_MS 9.2 to NetSense 10.2. Designed for users upgrading or planning to upgrade to NetSense 10.2. |
| NS-04: New in NetSense—device enhancements | Workshop will cover the device enhancements from EA_MS 9.2 to NetSense 10.2. Designed for users who are upgrading or planning to upgrade to NetSense 10.2. This session does not include REXUniversal meters which are covered in NS-09 and CF-04. |
| NS-05: Best practices for AMI system management—electricity | Effectively manage electricity meters through your EnergyAxis system. This workshop reviews suggested schedules and data sets, recommended daily checks of the system, and best practices. Discussion: Bring your best practices to class to share with others! |
## Workshop Descriptions

### CONNEXO NETSENSE

<table>
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<tr>
<th>Workshop Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NS-06: NetSense administrator configuration options</strong></td>
<td>Ever wanted to know... what is the “Stale Register read duration” and what does that mean? How about “Device minimum communication threshold”? Can I customize the NetSense server login header title? Learn these answers and more—including how to modify events and set system parameters. Designed for Connexo NetSense administrators or inquiring minds.</td>
</tr>
<tr>
<td><strong>NS-07A: Introduction to Connexo NetSense 10 alarms and events</strong></td>
<td>Review how to use alarms and events in Connexo NetSense, and learn new features to help you filter to find the ones you care about. For a deeper dive into this topic, see also NS-07B, NS-07C, &amp; NS-07D.</td>
</tr>
<tr>
<td><strong>NS-07B: Alarms and events: filters</strong></td>
<td>Having trouble finding the alarms and events you really need to see? Learn how to create and use custom filters so you can find and focus on the alarms and events that matter to you! Discussion: Bring your favorite custom filters and how you use them.</td>
</tr>
<tr>
<td><strong>NS-07C: Alarms and events: communications</strong></td>
<td>Certain alarms and events can help you identify WAN or LAN communication problems. Learn how to leverage Connexo NetSense and AxisDetect to help you optimize and troubleshoot network communications.</td>
</tr>
<tr>
<td><strong>NS-07D: Alarms and events: theft</strong></td>
<td>Review common alarms and events that are associated with tamper, what they mean, and how using AxisDetect can give you additional insights.</td>
</tr>
<tr>
<td><strong>NS-08: Jobs and work items in Connexo NetSense</strong></td>
<td>Two new concepts are introduced in NetSense: Jobs and Work Items. Learn how Jobs are used in device configuration and power status check, and how device Work Items relate to Jobs. Also, learn how and why to monitor Jobs and Work Items on your system. We will review new features in NetSense 10.2 such as resubmitting Jobs and Tasks.</td>
</tr>
</tbody>
</table>
Workshop Descriptions

**NS-09: Using REXUniversal meters with Connexo NetSense**
Come learn how to use NetSense to set up REXUniversal meters with cellular or EnergyAxis mesh, what functions are available for these meters, and what data sets and schedules should be used.

**NS-10: Service connect & disconnect with Connexo NetSense**
Are you confused by different error messages for service connect and disconnect? What happens when NetSense says a connect or disconnect request failed, but you check the meter and find the request was actually completed? Come learn how connect and disconnect work, what the different error messages mean, and how you can submit connect/disconnect requests for multiple meters at one time.
Prerequisite: NS-08: Jobs and Work Items in NetSense.

**NS-11: Using Device Search effectively in Connexo NetSense**
Device Search keeps getting better and better with every NetSense release! Learn about the new options such as multiple device lists and how you would use them, and how Device Search can help you accomplish your day to day tasks more effectively.
Discussion: Bring your favorite ways to use Device Search to share with the class.

**NS-12: Device troubleshooting in Connexo NetSense**
When NetSense reports a meter health event or alarm, what should you do? Come learn how to relate NetSense events with meter statuses, understand which ones indicate that a device should be replaced, and what troubleshooting can be done in the field.
Prerequisite: NS-07A Intro to NetSense alarms and events or a working knowledge of alarms and events in NetSense.

**NS-13: Meter temperature monitoring and hot sockets**
Excessive heat at the meter socket can result not just in damage to assets, but potentially dangerous situations. This session is designed to explore potential causes of hot sockets, what to look for during meter exchange, how to use the AMI meter to identify dangerous heat gain during normal operation, how to use the AMI system to improve work order dispatch and even automatically take action to cut service. In addition to automatic temperature threshold alerts and automatic service termination, the AMI system is being enhanced to provide instrumentation level profiling for correlation and analysis.
Workshop Descriptions

CONFIGURATION & HARDWARE

**CF-01A: Metercat overview: what do I use it for?**

Are you new to the Metercat software for programming meters? Have you ever used or really understood all the available options? This session introduces our meter configuration and test software. Topics: Metercat installation and setup, administration, and general operation. **Advance registration is required; attendees must bring their own laptop computers with Metercat loaded. (2 hours)**

**CF-01B: Metercat administrator tasks**

Are you the Metercat Administrator for your company? Would you like to restrict users to access only certain functions? Maybe you have set up your version of Metercat for Single User and you are the Admin. This session is designed to assist a Metercat Administrator in setting up Groups, Users, and assigning access levels. Topics: Key decisions for the Metercat Administrator, setting up multiple users, defining groups, and synchronizing with a network or server. **Advance registration is required; attendees must bring their own laptop computers with Metercat loaded. (2 hours)**

**CF-01C: Metercat general operation**

Do you need to read data or reconfigure your meters but are not sure what is available with Metercat software? This session will take a closer look at creating and using Connections, Functions, Viewsets, and Passwords with the A3 ALPHA, REX2, or REXUniversal. We will review a diagnostic read; the data and programming questions it answers about this meter; and how to export the report from Metercat. **Advance registration is required; attendees must bring their own laptop computers with Metercat loaded. (2 hours)**
# Workshop Descriptions

## CONFIGURATION & HARDWARE

<table>
<thead>
<tr>
<th>Workshop Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CF-02A</td>
<td>CF-02A: Metercat A3 ALPHA programming overview for EnergyAxis</td>
<td>Steps you need to take with meters that will become part of an EnergyAxis AMI system. This session will take a closer look at Gatekeeper and A3 ALPHA metering options and how the components are set up with Metercat. We will examine how to develop EER (Endpoint Execution Request) files to allow changes to four A3 ALPHA settings through a server. <strong>Advance registration is required; attendees must bring their own laptop computers with Metercat loaded.</strong></td>
</tr>
<tr>
<td>CF-02B</td>
<td>CF-02B: Metercat REXU programming overview for EnergyAxis</td>
<td>You have decided to purchase the new REXUniversal meters but are not sure how Metercat is used to program or gather data from them. This session takes a closer look at REXUniversal metering options and how the components are set up with Metercat. We will examine how to develop EER files to allow changes to REXU-EA components through a server. <strong>Advance registration is required; attendees must bring their own laptop computers with Metercat loaded.</strong></td>
</tr>
<tr>
<td>CF-02C</td>
<td>CF-02C: Metercat components to program WIC-enabled meters for EnergyAxis</td>
<td>This workshop will focus on developing the components used for Ethernet WIC and wireless WIC enabled Gatekeepers and A3 ALPHA devices. We will concentrate on the Special Option Board component and suggested configurations. <strong>Advance registration is required; attendees must bring their own laptop computers with Metercat loaded.</strong></td>
</tr>
<tr>
<td>CF-02D</td>
<td>CF-02D: Metercat components and programs for EnergyAxis system users</td>
<td>Put it all together and create sample Components and Programs. This session will include a discussion of available hardware and programming options and their applications in various field scenarios. We will explain some best practices, but ask you to share your experiences too. Bring examples of how you have programmed A3 ALPHAs, EA_Gatekeepers, or REXUniversal meters. <strong>Advance registration is required; attendees must bring their own laptop computers with Metercat loaded.</strong></td>
</tr>
<tr>
<td>CF-03</td>
<td>CF-03: Configuring A3 ALPHA and REXU-EA meters with Connexo NetSense</td>
<td>From Connexo NetSense 10.X, using Endpoint Execution Request (EER) files exported from Metercat, you can change most any component in your REXU-EA. In addition, you can change four components (Load Profile, Instrumentation Profiling, Special Dates, and Rates) components in your A3 ALPHA 5.X and REXU-EA meters. In this session, you will also learn how to interpret and use EER configuration reports.</td>
</tr>
<tr>
<td>CF-04</td>
<td>CF-04: Configuring REX2 meters with Connexo NetSense</td>
<td>You spent a lot of time filling out your REX2 programming form only to find out later that a “one-size fits all” profile doesn’t always meet your field requirements. Discover how existing REX2 meters can be re-configured using NetSense and learn about the new REX2 configuration parameters.</td>
</tr>
</tbody>
</table>
Workshop Descriptions

VALUE-ADD SOLUTIONS

**VA-01: Transformer monitoring**

Assets such as distribution transformers are rarely instrumented and can cause critical outages upon failure. Learn how transformer monitors and analytical tools are used to monitor and track load and power quality at critical infrastructure. This solution provides transformer loading and performance metrics, fault detection, and remaining assets lifetime estimation. Detection of overloaded and near-failure transformers is a vital component of grid reliability, enabling better planning and lowering operational costs.

**VA-02: Loss & theft monitoring**

Identifying and confirming theft used to be an inefficient and expensive manual process. Learn how transformer monitors and analytical tools can automatically detect and alert the Utility of fraudulent activities. Analytical tools can automatically search load profile data from the revenue meter for tell-tale signs of theft as well as interpret tamper alerts. The result is a radical increase in the speed and efficiency in detection of fraudulent activity as well as the documentation of verifiable proof for prosecution of fraud and theft.

**VA-03: Outage/ restoration monitoring**

Silent outages are a thing of the past. This workshop will equip utilities to use EnergyAxis to detect and monitor outages and the progress of restoration across the network. AMI data helps utilities locate and address outage events more quickly to reduce response and restoration times. *(2 hours)*

---

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Visit www.survalent.com
## Workshop Descriptions

### VALUE-ADD SOLUTIONS

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<tr>
<th>Workshop</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>VA-04:</strong> Connexo Insight meter data management (MDM) for the Americas</td>
<td>This session introduces Connexo Insight, a new MDM application integrated into the Connexo platform for greater ease of use and reduced infrastructure overhead. Connexo Insight concepts and features will be presented. Our MDM roadmap will also be discussed. Workshop covers key MDM concepts, including an architectural overview of the product, and the capabilities for configuring and managing users and devices. Basic reporting, graphing, importing/exporting, logging and auditing will be demonstrated.</td>
</tr>
<tr>
<td><strong>VA-05:</strong> Making the jump from AMI data to smart grid analytics</td>
<td>In this session, Leidos will review how it helps EnergyAxis customers move past meter data collection and billing, and into advanced analytics and organizational impact around distribution system planning, cost allocation and rate studies, and reverse-energy analysis. These capabilities can make a real difference in utility operations and ultimately expand the return on investment of AMI systems. <em>Workshop led by Diamond Sponsor Leidos Engineering</em></td>
</tr>
<tr>
<td><strong>VA-06:</strong> Advanced Cloud Analytics for on-premise AMI</td>
<td>EnergyAxis Managed Services powered by Utilismart has developed a suite of cloud-based analytic applications for engineering and operations. Your utility can subscribe to any of them with your existing investment in EnergyAxis. In this session, you will learn how we have integrated on-premise AMI and 3rd party applications, especially GIS, OMS and SCADA, to simulate load flow of your electric distribution network in near real-time. We will demonstrate how we leverage meter data to calculate load, current and voltage along primary and secondary circuits to better manage power outage/restoration, load transfer and asset management scenarios. Learn how you can harness the power of cloud analytics with no additional investment in server, network and storage. <em>Workshop led by Platinum Sponsor Utilismart</em></td>
</tr>
<tr>
<td><strong>VA-08:</strong> AMI and Prepay: Maximizing your smart grid benefits</td>
<td>After EnergyAxis AMI system has been deployed, utilities can reap even greater value by adding the Exceleron MyUsage Prepay solution as an alternative to traditional billing. This session introduces how EnergyAxis and Exceleron Prepay systems work together to help utilities improve bad debt and aged accounts receivables while improving customer satisfaction and providing better payment options for customers. A detailed review of important smart meter configurations and methods to handle various read scenarios will be provided. <em>Workshop led by Gold Sponsor Exceleron</em></td>
</tr>
<tr>
<td><strong>VA-09:</strong> Benefits of AMI integration with SCADA/OMS/DMS</td>
<td>AMI information provides many benefits when interfaced with Outage Management System (OMS) &amp; Supervisory Control and Data Acquisition (SCADA). Our workshop is built on expertise derived from 50 years of using operational data to increase reliability, efficiency and customer service. <em>Workshop led by Gold Sponsor Survalent Technology</em></td>
</tr>
</tbody>
</table>
### Workshop Descriptions

#### DEMAND SIDE MANAGEMENT

**DSM-01: Leverage your AMI investment for load control & demand response**

Honeywell offers a full suite of hardware and software solutions to help utilities better manage customer load. When combined with a Demand Response Management System and on-site devices, the EnergyAxis platform provides a comprehensive solution for any DR program, from recruitment through validation. This course will discuss each component, its application, and how to maximize value for both the utility and the customer.

**DSM-02: Demand Response: solutions that work for you**

Honeywell offers end-to-end solutions for Demand Response (DR) programs from residential through the large commercial and industrial sectors. These programs can be customized to fit your customers’ needs, your budget and your territory. This session will provide insight into program design and implementation, technology and how to utilize trade allies. Whether you are new to DR programs or have been doing them for years, this session will be one you will want to attend.

**DSM-03: Targeted marketing to increase customer enrollment**

How do you make sure you’re hitting the right audience with a timely and compelling offer? This session will highlight the keys to developing successful programs that ties together market research, outcome-oriented design and a proven approach to metrics and measurement.

**DSM-04: Increase commercial demand side management program participation**

Honeywell has the largest energy management solutions footprint in the commercial sector. The next generation of programs will not only save energy but can also strengthen the utility’s reputation as a trusted energy advisor. This session will focus on Energy Efficiency (EE) program development to meet the needs of non-residential customers, while still maintaining budget and schedule constraints.
### Workshop Descriptions

#### DEMAND SIDE MANAGEMENT

<table>
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<tr>
<th>Workshop Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>DSM-05</td>
<td>Invigorate your residential energy efficiency programs</td>
<td>Residential Energy Efficiency (EE) portfolios have long been one of the primary mechanisms to delivering sustained energy savings to a utility portfolio. With a wide range of products and solutions available for EE programs, this session will demonstrate how utilities can invigorate energy programs.</td>
</tr>
<tr>
<td>DSM-06</td>
<td>Emerging technologies and energy resources</td>
<td>Advancing technologies, along with an ever-changing energy landscape, offer utilities new paths for revenue, growth and cost management. This session will discuss opportunities such as energy storage, an emerging solution for resource management and electrification, as well as supporting the replacement of fossil fueled equipment with electric-powered alternatives, all of which are proving to be valuable to the industry.</td>
</tr>
<tr>
<td>DSM-07</td>
<td>Energy Management 101</td>
<td>Municipalities and large businesses recognize that controlling energy costs across buildings and operations is crucial to maintaining competitiveness and enhancing environmental credentials.</td>
</tr>
<tr>
<td>DSM-08</td>
<td>Monitor voltage for savings and load control</td>
<td>Learn how voltage optimization improves system reliability, delivers savings to the utility and to consumers, and increases operational efficiency. Discover how to leverage your EnergyAxis system to monitor voltage throughout your service territory.</td>
</tr>
<tr>
<td>DSM-09</td>
<td>Strategies driving success in Demand Response and Energy Efficiency programs</td>
<td>The key to successful EE and DR programs is peak load reduction while minimizing customer comfort. WeatherBug Home integrates Honeywell thermostats with our patented algorithms and proprietary weather data to deliver unmatched capacity results and customer engagement. This session will share insights into the methods and technology driving weather-driven thermostat optimization and an overview of our BYOT programs with Honeywell, showcasing new ideas to attract and retain consumer engagement – from awareness to enrollment in DR and EE programs. Finally, we will explore our Energy Insight Portal used to by utilities monitor and manage load, and other aspects of their DR and EE programs. <strong>Workshop led by Gold Sponsor WeatherBug.</strong></td>
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</table>

Workshop led by Gold Sponsor WeatherBug.
CONNECTED HOMES AND SMART CITIES

**SC-01: Adaptive streetlight intelligence and management**

Street lighting control offers a foundation for the Smart City evolution, enabling utilities to save resources, and improve maintenance, safety and security for their communities. This session provides an overview of the intelligent streetlight control and monitoring system and an overview of the hardware and software, including the user interface and front end system.

**SC-02: Internet of Things briefing and discussion**

Everything is connected! The internet of things (IOT) represents networked systems within systems that are communicating and feeding into a larger subset of systems via smart sensors. Tack on a device into these systems with the smarts to collect, parse and exchange data and you’ve got yourself an IOT solution. So how does that impact us today? This round table discussion will help you understand how next generation IOT technology can be leveraged to reduce costs, improve operations and better meet your customer service needs.

**SC-03: Connected Home + Smart Grid + Smart City briefing and discussion**

Everything is connected! One of those things is the home. Homes connect to numerous utility and communication grids inside each city’s ecosystem. This round table discussion will introduce concepts and explore key technologies ranging from generation (traditional, solar, flexible) transmission, distribution, OMS/DMS/EMS, solar, battery, wireless to smart metering. Your thoughts, experiences and questions are welcome.

Everything is connected! One of those things is the home.
## Workshop Descriptions

<table>
<thead>
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<th>WATER &amp; GAS</th>
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<tr>
<td><strong>WG-01: Water module programming</strong></td>
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<tr>
<td>This workshop will cover electronic resolution, internal divisor, hi-res encoders, status and alarms, and use of water programming spreadsheet.</td>
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</table>

| **WG-02: Water and gas installation and troubleshooting** |
| This workshop complements WG-01. With installation completed, what do you do next, what do you see, what can go wrong, and how to fix it. Targeted at field personnel for water and/or gas utilities, with a focus on handheld tools and software: |
| • Installation techniques using EA_InstallerPlus, including lessons learned and best practices |
| • Troubleshooting techniques using EA_Inspector, including troubleshooting guide, review GUI, and operations |

| **WG-03: Manage water and gas devices using Connexo NetSense** |
| Understand how water and gas modules register and communicate with Connexo NetSense. Become familiar with the installation process, learn how to obtain device readings, monitor events and alarms, and understand standard water and gas reporting tools. Review recent enhancements to the tilt/tamper events and alarms, and how device statuses are cleared. |

| **WG-04: Best practices for AMI system management – water and gas** |
| Learn more and better ways to manage water and gas meters through your EnergyAxis system. This workshop reviews suggested schedules and data sets, recommended daily checks of the system, and best practices. **Discussion: Bring your best practices to share!** |

| **WG-05: Solutions for unmetered gas and water consumption** |
| Learn how to use EnergyAxis to capture empirical data on unmetered gas and water consumption (i.e., leakage) and service solutions to address unmetered consumption. |

| **WG-06: Water and gas module operation and compatibility** |
| Theory and operation of EnergyAxis gas and water modules. Applications to specific field scenarios and meter compatibility. You will learn how modules measure usage and how water load profile (LP) data is obtained and calculated. |

| **WG-07: User exercises and practical application** |
| Open forum for hands-on experience with various types of field equipment such as Radix handhelds, Metercat, EA_Inspector and EA_Installer, battery-powered repeaters and Field2Base work order management. **Advanced registration required to ensure sufficient equipment on hand.** |

| **WG-08: Overview of the latest water metering technologies** |
| With large investments being made in smart grid infrastructure, there is a need to ensure that water meters are continuously providing accurate measurement. Traditional technologies can wear or jam through excessive usage or from debris within the water. In many instances, changes in accuracy are not noticed until after the water meter is replaced and the consumer makes a complaint of a high increase in their water bill. Latest water metering technologies provide sustained accuracy and protect revenues throughout the life of the system while reducing the need for expensive testing and calibration programs. |
Workshop Descriptions

**NETWORK COMMUNICATIONS**

**NET-01: Mesh optimization & troubleshooting using Connexo NetSense**
Learn how to monitor the performance of your mesh network, and identify and troubleshoot mesh communication issues using Connexo NetSense.

**NET-02: AxisDetect (GeoSpatial) and Network Visualizer (Logical) network tools**
AxisDetect is now included at no additional cost with Connexo NetSense. Learn how to set up and use AxisDetect to locate, monitor and troubleshoot electric, water, and gas devices. Network Visualizer (formerly LAN Visualizer) has been rewritten and is now fully HTML5 compliant. Come see how these visual tools come together to provide the best user experience inside of NetSense.

**NET-03: Gatekeeper/router installation, set-up and troubleshooting**
Learn how to install gatekeepers/routers, set them up in Connexo NetSense, and use available field tools to commission, troubleshoot, repair/replace and maintain peak performance of these critical network points.
Prerequisites: CF-01A Metercat Overview and PDE-01 Introduction to EA_Inspector and EA_Installer (familiarity with Metercat and the field tools is required).

**NET-04: EA_Inspector to optimize electricity deployments**
Leverage the EA_Inspector handheld in the field to optimize and troubleshoot your mesh network for electricity meters. This workshop assumes good familiarity with field tools. PDE-01 is strongly recommended for new users. (2 hours) Prerequisite: PDE-01: Introduction to EA_Inspector and EA_Installer.
Workshop Descriptions

**NETWORK COMMUNICATIONS**

**NET-05: Reading meters in hard to reach areas with EA_Mobile**

Learn how to mix and match technologies based on cost effectiveness and reliability. Whether electric, water or gas, there are several alternatives to getting all your meter data into your systems. This session will look at EA_Mobile as an AMR alternative using Route Manager for reading meters with a drive-by or walk-by process.

**NET-06: SynergyNet™: the next evolution of EnergyAxis mesh**

SynergyNet is a standards-driven IP network that will support IPv6 communications with Elster’s IPv6 capable meters. This workshop will provide an overview of the network, the network security protocols that are supported, and the capabilities to support connectivity to other devices for Smart Cities applications. The migration path to SynergyNet from existing EnergyAxis mesh networks will also be discussed.

**NET-07: 4G LTE roadmap/evolution for M2M devices**

4G LTE is just the beginning. There is an evolving LTE roadmap for machine-to-machine (M2M) devices that will provide additional capabilities and lower costs. This workshop will review the cellular industry LTE roadmap for M2M devices, the evolving capabilities and their implications for electric meters, water and gas meters, as well as battery powered devices.

**NET-08: Practical guidelines for implementing modern wireless networks:**

Increasingly, electric utilities are deploying intelligent electronic devices (IEDs) and other smart apparatus in substations and along distribution feeders as well as equipping field workers with laptop, tablet and handheld computers. This training session will outline the requirements for modern wireless utility communication networks and offer practical guidelines regarding how and where to use broadband point-to-point (PTP), point-to-multipoint (PTMP) and mesh technologies, coupled with narrowband wireless technologies for specific applications, to meet these requirements. **Workshop led by Platinum Sponsor ABB.**

Two-way communication is the linchpin of successful grid modernization. Modern wireless communication networks from ABB support broadband data, enabling vast improvements in efficiency, security and reliability that can permeate through utilities’ operations. For more information, please visit www.abb.com/unwired
Workshop Descriptions

**PROJECT DEPLOYMENT AND EXPANSION**

**PDE-01: Introduction to EA_Inspector and EA_Installer**

This workshop is targeted to first time users of Honeywell Elster field tools and software. It gives a basic run through of EA_Inspector and EA_Installer and how they integrate to Route Manager and Inspector Manager. **This workshop is a prerequisite for NET-04: Using EA_Inspector for electricity deployments.**

**PDE-02: Deployment expansions from the field perspective**

How to best plan and execute for success and efficiency specifically highlighting differences and similarities in deployment expansion projects, whether moving into new areas or adding water or gas to your electricity deployment. This workshop covers operational planning, inventory management, common deployment scenarios, lessons learned and best practices.

**PDE-03: Professional Services options and walk-through:**

Learn how to leverage services to benefit your business and customer base. The workshop will cover how to research and plan for service needs, pricing models, and an overview of Honeywell Elster’s professional services which can include managing partner service programs. Examples include:

- Installation services for meters, lighting, DR devices
- Enterprise Asset Management surveys
- Direct marketing to your customers to recruit participation in programs
- IT Support services such as database backup and OS installation
- Utility support services such as water pit cleanout and gas meter painting.

Learn how to leverage services to benefit your business and customer base.
Utility Speakers

Aaron Bean
OPERATIONS MANAGER, WESTFIELD GAS + ELECTRIC LIGHT DEPARTMENT

Aaron Bean has spent over 25 years in the natural gas and electric industry, focusing on engineering and operations, and currently serves as Operations Manager of Westfield Gas + Electric Light Department. As program manager for his company’s EnergyAxis AMI deployment, Aaron oversaw deployment and integration of nearly 30,000 meters, which was completed on time and under budget. He is also the Program Manager for a number of other initiatives, including the Department’s very successful fiber to the home initiative, Whip City Fiber, and the Electric Vehicle adoption program. Aaron holds a Bachelor’s of Science in Civil Engineering from University of Hartford and an MBA from Rensselaer Polytechnic Institute.

Eddie Fee
DIRECTOR OF CUSTOMER FIELD OPERATIONS, ORLANDO UTILITIES COMMISSION

As Director of Customer Field Operations at Orlando Utilities Commission, Eddie’s teams are responsible for electric and water metering, the AMI head-end system and meter data analytics, cut-on/cut-off field operations and mobile meter reading activities. His 18-year tenure with OUC includes numerous positions held, including Meter Reader, Field Service Technician, Electric Meter Technician, Revenue Assurance Specialist, Revenue Assurance Administrator and Meter Data Administrator and Manager of Meter Data & Revenue Assurance. A graduate of the University of Central Florida with a degree in Business Administration, Mr. Fee earned his Master of Business Administration from UCF (University of Central Florida) in 2015.

Stephanie Johnson
CONSUMER ENGAGEMENT SUPERVISOR, AEP/PUBLIC SERVICE COMPANY OF OKLAHOMA (PSO)

As PSO Consumer Engagement Supervisor, Stephanie Johnson is responsible for customer education related to the Automated Metering Infrastructure (AMI) and Smart Grid technologies, which includes all customer programs offerings now available to PSO’s customers due to this technology. Stephanie is a 30 year employee with AEP/Public Service Company of Oklahoma (PSO).
Lorrie Maggio
MANAGER, COMMUNITY OUTREACH, DUKE ENERGY

As Manager, Community Outreach, Lorrie Maggio oversees the Community Outreach team, responsible for managing low income programs throughout all of Duke Energy’s jurisdictions, including a Neighborhood Energy Saver program, Weatherization program, Helping Home Fund, and Customer Assistance Funds. Prior to the Duke Energy/Progress Energy merger, Lorrie managed the residential energy efficiency programs for Progress Energy Carolinas. Lorrie has held various positions in the residential utility business, and has worked for Duke Energy for over 20 years. She holds a BS from NC Wesleyan College and an MBA from Meredith College.

Logan Pleasant, P.E.
DIRECTOR OF ENGINEERING AND OPERATIONS, LAKE REGION ELECTRIC COOPERATIVE

Logan has worked in the Electric Utility industry for 13 years. At Lake Region Electric Cooperative in Hulbert, Oklahoma, Logan oversees the operations, right-of-way, dispatch, engineering, metering, mapping, staking and SCADA groups. He has held that position for two years. Prior to Lake Region, Logan was a consulting engineer for ESC engineering in Fort Collins Colorado, specializing in system planning and protection coordination. Logan is a registered Professional Engineer in the States of Colorado and Oklahoma, a member of the Institute of Electrical and Electronics Engineers, and the current President of the Oklahoma Power and Communication Association. He currently resides in Tahlequah, Oklahoma with his wife and two sons.

Dan Roberts
MANAGER, CONSERVATION & DEMAND MANAGEMENT, HYDRO OTTAWA LTD.

Dan Roberts is a well-known contributor to the electricity community in Ontario. Dan has worked extensively with Ontario LDCs and industry stakeholders in a variety of fields including Customer Engagement, Marketing, Conservation and Demand Management, Demand Response, Connected Home and Renewable Generation. Dan spearheads Hydro Ottawa’s Conservation Fund Pilot to evaluate Conservation Voltage Regulation as a means to realize additional value from installed Smart Meters and achieve their 2020 CDM target.
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Les C. Smith
ELECTRIC METER OPERATIONS SUPERVISOR, CITY OF TALLAHASSEE

As Electric Meter Operations Supervisor at the City of Tallahassee, Les supervises the electric meter operations department which includes electric meter testing (bench/field), programming, AMI communication (installation/repair), and Power Quality monitoring. Les has worked in the electric metering field for more than 14 years.

Chris Studer
CHIEF MEMBER AND PUBLIC RELATIONS OFFICER, EAST RIVER ELECTRIC POWER COOPERATIVE, SD

Chris Studer is the Chief Member and Public Relations Officer for East River Electric Power Cooperative. East River Electric is headquartered in Madison, S.D and serves 25 member systems in eastern South Dakota and western Minnesota with substation and transmission service. East River’s member systems provide power to over 125,000 consumers. Chris leads the Member Services Division which is responsible for communications, marketing, legislative support and economic development.

Wade Williams
MANAGER RESIDENTIAL IMPLEMENTATION, FIRSTENERGY

Wade Williams has more than 39 years of electric utility industry experience with FirstEnergy Corp. Wade was appointed to his current position in the Energy Efficiency department in April 2011. His primary responsibilities include the implementation of energy efficiency and peak demand reduction programs for residential customers of FirstEnergy in Ohio, Pennsylvania, Maryland, New Jersey and West Virginia. Previously, he held various engineering, IT, sales and marketing and management positions at FirstEnergy. Wade earned a Bachelor of Science degree in Mechanical Engineering from Ohio University and is a Registered Engineer in the State of Ohio. He and his family reside in Kent, Ohio.

Charlie Wright
ELECTRIC METER ADMINISTRATOR, ORLANDO UTILITIES COMMISSION

Charlie Wright is a knowledgeable utility professional with a degree in electrical engineering and 20-plus years of experience working in a variety of capacities. He has worked at Orlando Utilities Commission for almost 14 years, the last six of which have been in the areas of Meter Data Management and Metering. Charlie was heavily involved with the deployment of the EnergyAxis electric and water AMI system within the electric and water service territories which has been completed. He continues to work on the water AMI deployment within the water-only territories.
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