

POST CONFERENCE REPORT



CONNECTED PLANT CONFERENCE

Harnessing Digital Tools to Drive Success

2017 Conference Highlights:

- **132** attendees from **8** countries
24% of attendees were electricity providers
- **18** industry speakers
- **7** conference sessions
- Site Tour of Luminant's Power Optimization Center

"This was a great conference full of information. Attending this conference will definitely help my work. Thank you!"

- 2017 attendee

Hosted by *POWER*, the inaugural Connected Plant Conference was held Feb. 15-16 at The Highland Hotel in Dallas. The conference provided attendees with the latest digital monitoring, diagnostic, analytics, Industrial Internet of Things, and decision-support technology for the power generation industry.

Hosted by:

POWER
BUSINESS & TECHNOLOGY FOR THE GLOBAL GENERATION INDUSTRY SINCE 1882

connectedplantconference.com

2017 ADVISORY COMMITTEE

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Generation, EPRI

Clinton Carter, *Director*, Advanced Monitoring
and Diagnostic Services, Luminant Energy

David Gaier, *Senior Director*,
Communications, NRG

Grant Grothen, *Principal*, Burns & McDonnell

Brian Hollingshaus, *Project Manager*-
Maintenance and Diagnostics, Duke Energy

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Leader-Generation, EPRI

Megan Parsons, *Development Engineering*
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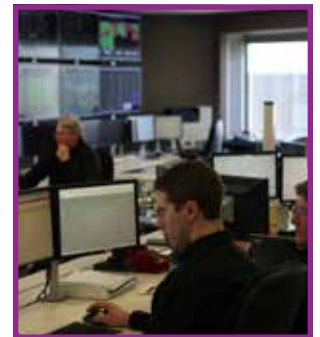
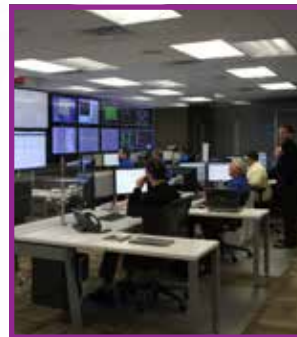


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Luminant Energy's Power Optimization Center Site Tour

All attendees were invited to visit the Power Optimization Center (POC). Through the integration of remote monitoring, modeling, and diagnostics, the POC identifies, forecasts and advises plant personnel of emergent issues impacting production saving millions of dollars.

- **100% of attendees said the Luminant Site Tour met or exceed expectations**
- *"Enjoyed being able to speak and ask questions directly to the M&D specialists."*
- *"Excellent opportunity to learn about how digitalization is impacting power plant operations."*



"I enjoyed the conference and found it worthwhile, both as a speaker and as a sponsor. There was a good diversity of topics and a good balance of individual case studies and overall industry trends."

—Philip Black, PE

Product Marketing Director, Intelligent Operations, Wood Group



CONFERENCE SESSION HIGHLIGHTS

Power plants are unlike all other plants. Aside from enabling other industrial plants to operate, power generation facilities are classified as critical infrastructure. That makes understanding the new digital technologies and capabilities especially important. The conference program addressed these issues during the seven sessions covered in one and a half days.

Opening Keynote: The Impact of the Industrial IoT on the Power Industry

- **93% of survey respondents said the Opening Keynote session met or exceeded expectations**
- *“Very enlightening! Excellent, thought provoking talk.”*



“Don’t be afraid, definitely don’t be stupid, but don’t be afraid to connect your plants just because you don’t understand the security technology, go out there and learn it.”

—Dr. Stan Schneider during the opening keynote

What is a Connected Power Plant?

- **100% of survey respondents said attending this session was a good investment of time and money**
- *“Great cross sector of speakers.”*
- *“Nice round of Q&A with a large amount of data and perspectives covered.”*



“We have many sensors applied on our assets. They’re hardwired to numerous data acquisition systems around the station. Those data acquisition computers then send information to the plant server wirelessly.”

—Dr. Michael Reid describing portions of Duke Energy’s connected plant infrastructure

Using Connected Digital Technologies to Enhance Reliability and Profitability

- **92% of survey respondents would recommend this session to their colleagues**
- *“This is exactly the type of information that I came to hear about.”*



“The most accurate expected values give you the earliest and most accurate predictions of potential problems.”

—Randy Bickford explaining the importance of modeling expected performance parameters

Using Connected Plant Technologies to Enhance Worker Safety and Efficiency

- **100% of survey respondents said this session met or exceeded expectations**
- *“This session helped me think how I can get digitalization working at my company without a huge investment.”*

Using Digital Solutions for Compliance

- **93% of survey respondents would recommend this session to their colleagues**
- *“Dr. Steve Piche was exceptional—excellent session!”*



“You can’t afford to have a bunch of different sets of data sets for your compliance. You can’t have Operations looking at one set of data, Environmental collecting that data manually, and then sending it to Management. Operations needs that same data and same information.”

—Philip Black discussing the efficiencies and accuracies of a connected power plant

Managing IT/OT Convergence/Collaboration

- **100% of survey respondents would recommend this session to their colleagues**
- *“This session provided a good balance from day one and ‘Automate Everything’.”*

Cybersecurity Concerns

- **100% of survey respondents said this session met or exceeded expectations**



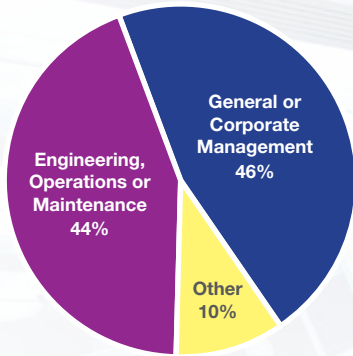
“The Internet of Things means that you introduce some sort of connectivity to your platform. If you introduce external connectivity from the internet, you have to make sure that your infrastructure is secure.”

—Marina Krotfill outlining various ways hackers gain access to systems

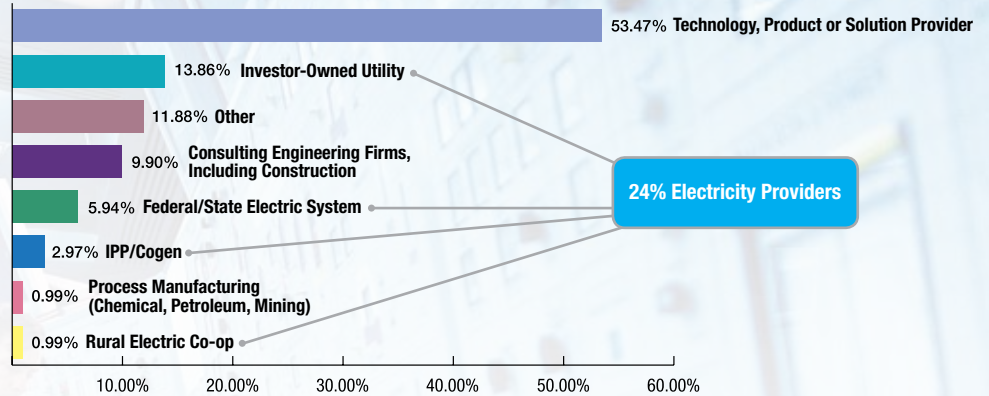


ATTENDEE DEMOGRAPHICS

Job Function



Company Type



COUNTRIES REPRESENTED

132 attendees from 8 countries | United States, Canada, Finland, Japan, Korea, Norway, Philippines, and South Korea

STATES REPRESENTED

118 attendees from the United States representing 27 states

ATTENDEE SHORT LIST

ABB Inc., Senior Vice President, Product Management
ABB Inc., Business Development Manager
Aboitiz Power Corporation, Generation Business Unit Asset Management
AIG, Global Engineering Lead Energy and Construction
Air Liquide, Director Smart Innovative Operations
Alliant Energy, Engineer I
Ameren Missouri, Senior Operations Engineer
American Electric Power, Monitoring and Diagnostic Center Analyst Senior
Archer Security Group, Managing Partner
Atlantic Power Corporation, Senior Vice President, Asset Management
BC Hydro, Reliability Engineer
Beecher Carlson, Managing Director
Black & Veatch, Vice President
ChaiOne, Business Development
ChaiOne, Digital Strategist
Cogentrix Energy, Executive Vice President, Generation Services
Curtiss-Wright, Asset Manager
Cyient, Inc., Account Manager
Cyient, Inc., Senior Director
Cyient, Inc., Senior Account Manager
DP Engineering Ltd. Co., Consultant II
Dragos, Inc., Chief Executive Officer
Duke Energy, Engineering Section Manager
Duke Energy, General Manager of Technical Programs
Duke Energy, Vice President, Renewables Operations
EGCO / Quezon Power (Philippines), Limited Co., Managing Director
El Paso Electric Company, Senior Vice President, Operations
Electric Power Research Institute (EPRI), Senior Technical Leader
Electric Power Research Institute (EPRI), Sr. Technical Advisor

Electric Power Research Institute (EPRI), Principal Project Manager
Electric Power Research Institute (EPRI), Senior Technical Leader
Electric Power Research Institute (EPRI), Communications Manager, Generation
Electric Power Research Institute (EPRI), Sr. Program Manager, Operations & Maintenance
Electric Power Research Institute (EPRI), Sr. Program Manager
Electric Power Research Institute (EPRI), Project Engineer III
Emerson Process Management, Director
Emerson Process Management, Director, Research and Technology
ESG, President
Exelon Corporation, Director IT, Cloud Network Engineering
Exelon Corporation, IT Director
Exelon Corporation, Operations Manager
Exelon Corporation, Vice President, South West Region
Expert Microsystems, Inc., President
First Gas Power Corp., Vice President
Florida Power & Light Company, Regional General Manager
Flowserve Corporation, Power Specialist
Fluor, O&M Manager
Form Automation Solutions, Inc., President and General Manager
Forney Corporation, Vice President, Research and Development
GE Power Digital, Technical Leader, Fleet Services M&D
GE Power Digital, Chief Technology Officer
GE Power Digital, Senior Technical Sales Manager
GE Power Digital, Product Marketing Manager
GE Power Digital, Head of Digital Transformation Services
GE Power Digital, Sr Comms Manager
General Electric, Fossil Optimization SME
General Electric, Software Director

General Electric, Chief Marketing Officer
Glenfarne Group, LLC, Senior Product Manager
Glenfarne Group, LLC, Managing Director
Graftef LLC, Mechanical Engineer
GSE Systems, Business Development
Honeywell Industrial Cyber Security Lab, Lead Security Researcher
IEEE Engineering360, Editorial Director
Integrated Test & Measurement (ITM), President
Kiewit, Director, New Generation Services
Korea East-West Power Company, Thermal Power Plant, Manager
Korea East-West Power Company, Manager
Luminant Energy, Director, Marketing, Sales, Government Relations
Luminant Energy, Equipment Reliability Manager, Power Optimization Center
Luminant Energy, Marketing Communications Manager, Power Optimization Center
Luminant Energy, Monitoring and Diagnostic Support Manager, Power Optimization Center
Luminant Energy, Manager, Business Applications
M&S Consulting, Associate Partner, Big Data and IoT
Mitsubishi Heavy Industries, Ltd., Engineering Manager
Mitsubishi Hitachi Power Systems Americas, Senior Project Manager, Digital Solutions
NextEra Energy, Manager, Fleet Performance and Diagnostic Center
PAS, Chief Operating Officer
PIC Group, Inc., President and Chief Executive Officer
PIC Group, Inc., Senior Director of O&M Services
PIC Group, Inc., Vice President, Business Development and Strategic Initiatives, Marketing
Praxik, Senior Vice President, Software
Praxik, Vice President, User Experience
Praxik, SVP Marketing
Processing, Editorial Director
PW Power Systems, Customer Service Engineer

Real-Time Innovations, Account Manager
Real-Time Innovations, Sales Engineer
Real-Time Innovations, Chief Executive Officer
Rockwell Automation, Market Development
Rockwell Automation, Power Generation Industry Leader
Salt River Project, Engineering Supervisor
Salt River Project, Manager, Power Generation Services
Schneider Electric, Vice President, Strategy and Product Management, Software
Servomex, Global Market Segment Manager, Power
Siemens Energy, Inc., Marketing Manager
Siemens Energy, Inc., Business Development
Siemens Energy, Inc., Sales Manager, Power System Sales
Siemens Energy, Inc., Global Head of Digitalization for Siemens Power Generation Services
Siemens Wind Power, Operations Manager
Solarview, Inc., Sales Design
Sparkcognition, Account Exec
Sparkcognition, Vice President of Sales
TLT-Turbo Inc., Global Business Development
TVA, Manager EAM
U.S. Department of Energy/National Energy Technology Laboratory, Crosscutting Research Technology Manager
Vistra Energy, Technology Enablement, EAM Program Manager
Wärtsilä, Application Manager
Wärtsilä, General Manager, Electrical and Automation
Wärtsilä, Senior Industrial Designer
Wärtsilä, General Manager
Wärtsilä, Proposal Manager
Western Farmers Electric Cooperative, Shift Supervisor
Wood Group, Product Marketing Director
Wood Group, Business Development Manager
WSC Inc., Executive Vice President

FEBRUARY 2018 | CHARLOTTE, NC

The 2018 conference program will be designed to provide everything you need to get a firm grasp on this new digital operating environment—and only what you need. The advisory committee will solicit key presentations and industry leaders in the summer of 2017. We hope you will join us in Charlotte.