Agenda

Business Intelligence & Data Analytics Virtual Workshop
May 19-20, 2020

Tuesday, May 19

10:30 - 11:30 a.m. ET
9:30 - 10:30 a.m. CT
8:30 - 9:30 a.m. MT
7:30 - 8:30 a.m. PT

You Have More Data Scientists Than You Think
Nearly all jobs involve some level of collecting and analyzing data. Learn how hiring specialized data scientists can help your utility better meet the needs of customers and improve operations. Discuss strategies for recruiting and developing more data-driven employees.

Liz Jambor, Data Analytics & Business Intelligence Manager, Austin Energy, Texas

Includes welcoming remarks by Alex Hofmann, Acting Vice President of Engineering Services, American Public Power Association

11:30 - 11:45 a.m. ET
10:30 - 10:45 a.m. CT
9:30 - 9:45 a.m. MT
8:30 - 8:45 a.m. PT

Introductions & Break
*15 minute break*

11:45 a.m. - 12:30 p.m. ET
10:45 - 11:30 a.m. CT
9:45 - 10:30 a.m. MT
8:45 - 9:30 a.m. PT

Data-Driven Change
Take a closer look at your utility’s performance: What do your metrics show you about what needs to change, or what isn’t what you expected? Explore how one utility’s deep dive into its employee metrics led to changes in its approach to reliability and customer service.

Brent McKinney, Director, Electric Transmission & Distribution, City Utilities of Springfield, Missouri

12:30 - 1:15 p.m. ET
11:30 a.m. - 12:15 p.m. CT
10:30 - 11:15 a.m. MT
9:30 a.m. - 10:15 a.m. PT

Lunch/Mid-Morning Break & Networking
*45 minute break*

1:15 - 2 p.m. ET
12:15 - 1 p.m. CT
11:15 a.m. - Noon MT
10:15 - 11 a.m. PT

Benchmarking: How Does Your Utility Compare?
Review the latest research from national labs to see where your utility falls in measuring reliability and other performance indicators. Learn new metrics for how reliability, operating costs, and worker compensation are assessed and ways you can benchmark against this data.

Joseph H. Eto, Staff Scientist, Lawrence Berkeley National Laboratory, California; Paul Zummo, Director of Policy Research and Analysis, American Public Power Association
Break & Networking

*15 minute break*

Drones: Buzzing with Possibilities

Using drones to collect data can help speed up power restoration, and even deliver pizza! But it’s time to cut through the hype and examine the pros and cons of using drones for day-to-day utility operations. Hear how other public power utilities are using drones to collect data for line design, maintenance, damage assessment, and issue spotting in remote areas. Learn how to sort through data and identify priority project areas. Understand the security threats and how to keep drones out of your substations.

Scott Breor, Director, Protective Security Coordination Division, Cybersecurity and Infrastructure Security Agency, Department of Homeland Security, Washington, D.C.; and Scott Sligh, Chief Engineer, Riviera Utilities, Alabama

Lunch/Mid-Afternoon Break & Networking

*45 minute break*

Gaining New Insights from GIS

Geospatial information systems (GIS) are allowing utilities to use spatial data to identify maintenance opportunities; manage and predict outage events; re-invent legacy programs, as well as enhance programs related to electric vehicles and solar. Learn how your utility can leverage geospatial data for decision-making and takeaway the latest methodologies in spatial analysis.

Julie Black, Economist, Data Analytics & Business Intelligence, Austin Energy, Texas; Pat Hohl, Director of Electric Industry Solutions, and Bill Meehan, Director of Electric Utility Solutions, ESRI, Redlands, California

Online Networking

Join your peers and the experts for open discussion and networking. Whether this is your virtual happy hour or afternoon coffee break, grab your drink of choice and unwind with your peers.
### Wednesday, May 20

**10:30 - 11:30 a.m. ET**
- 9:30 - 10:30 a.m. CT
- 8:30 - 9:30 a.m. MT
- 7:30 - 8:30 a.m. PT

.1 CEUs / 1 PDH / 1.2 CPEs,
Specialized Knowledge

**Using AMI to Build Engagement**

Your advanced metering infrastructure (AMI) provides enhanced data for your customers to understand their energy use - and for you to understand your customers. Learn how to use AMI data to segment and target specific customer groups to better connect customers with what they want - and to increase participation in your energy efficiency and demand response programs.

**Brad Gall**, Data Analyst, The Energy Authority, Jacksonville, Florida; and **Ed Hassler**, Assistant Professor, Computer Information Systems, Walker College of Business, and **Jamie Russell**, Director of the Appalachian Energy Center and Associate Professor of Building Science, Appalachian State University, Boone, North Carolina

**11:30 - 11:45 a.m. ET**
- 10:30 - 10:45 a.m. CT
- 9:30 - 9:45 a.m. MT
- 8:30 - 8:45 a.m. PT

Break & Networking
*15 minute break*

**11:45 a.m. - 12:30 p.m. ET**
- 10:45 - 11:30 a.m. CT
- 9:45 - 10:30 a.m. MT
- 8:45 - 9:30 a.m. PT

.1 CEUs / .75 PDHs / .9 CPEs,
Specialized Knowledge

**Using Data Science to Reduce O&M Costs and Improve Outage Management.**

By integrating data science into the process of asset maintenance and vegetation management utilities can reduce costs and improve reliability. Hear how utilities that were investing millions of dollars into their worst performing feeders without seeing any return used data science to change their strategy and reduce outages.


**12:30 - 1:15 p.m. ET**
- 11:30 a.m. - 12:15 p.m. CT
- 10:30 - 11:15 a.m. MT
- 9:30 a.m. - 10:15 a.m. PT

Lunch/Mid-Morning Break & Networking
*45 minute break*

**1:15 - 2 p.m. ET**
- 12:15 - 1 p.m. CT
- 11:15 a.m. - Noon MT
- 10:15 - 11 a.m. PT

.1 CEUs / .75 PDHs / .9 CPEs,
Specialized Knowledge

**Effectively Evaluating Energy Efficiency**

Learn how national energy labs are building frameworks, tools and datasets for analyzing energy efficiency programs across the country in terms of cost, annual energy savings, and peak demand savings. Discuss ways to apply these frameworks to your utility to analyze customer load profiles; calculate the cost and value of your energy efficiency programs; and inform program implementation, electricity system planning, and rate design.

**Natalie M. Frick**, Assistant Leader and Energy Efficiency Program Manager, and **Sean Murphy**, Scientific Engineering Associate, Electricity Markets and Policy Department, Lawrence Berkeley National Laboratory, California
2 - 2:15 p.m. ET
1 - 1:15 p.m. CT
Noon - 12:15 MT
11 - 11:15 a.m. PT

Break & Networking
"15 minute break"

2:15 - 3 p.m. ET
1:15 - 2 p.m. CT
12:15 - 1 p.m. MT
11:15 a.m. - Noon PT

Fostering Data-Driven Decision Making: An EV Case Study
What role ought your utility play when it comes to electric vehicles? Follow one utility’s journey to better understand the operational and economic impacts of EV charging, the current state of the EV market, and how rapidly it may evolve. Learn who the early adopters are and how to channel their enthusiasm to enlighten the rest of your customers. Discuss the key role of data collection and analysis in addressing all these questions.

Scott Benson, Manager, Resource & Transmission Planning, and Marc Shkolnick, Manager, Energy Services, Lincoln Electric System, Nebraska

3 - 3:45 p.m. ET
2 - 2:45 p.m. CT
1 - 1:45 p.m. MT
Noon - 12:45 p.m. PT

Lunch/Mid-Afternoon Break & Networking
"45 minute break"

3:45 - 5 p.m. ET
2:45 - 4 p.m. CT
1:45 - 3 p.m. MT
12:45 - 2 p.m. PT

Forecasting Load and Prices with AMI Data
Managing and extracting data from your AMI system to conduct load and price forecasting can be daunting. Learn about cutting edge methodologies, tools, and best practices for load forecasting and takeaway direct case studies that will help your utility leverage AMI data to make better operations planning decisions.

John Bilsten, General Manager, Algona Municipal Utilities, Iowa; and Anne Kimber, Director of Electric Power Research Center and Dr. Zhaoyu Wang, Assistant Professor, Iowa State University, Iowa; and Dr. Tao Hong, Director of Big Data Energy Analytics Laboratory, University of North Carolina at Charlotte, North Carolina

Includes closing remarks by Alex Hofmann, Acting Vice President of Engineering Services, American Public Power Association