

ELECTRIFICATION 2018 • AGENDA • TUESDAY, AUGUST 21

6:30 AM – 5:30 PM	Conference Registration
7:00 AM – 8:00 AM	Continental Breakfast in the Exhibit Hall
8:00 AM – 10:00 AM	Opening Plenary Session – Electrification: A Big Idea Mike Howard, President and CEO, <i>Electric Power Research Institute</i> Steve Mitnick, <i>Editor-in-Chief, Public Utilities Fortnightly</i> Gil C. Quiniones, <i>President and CEO, New York Power Authority (NYP&A)</i> Pedro J. Pizarro, President and CEO, <i>Edison International</i> Paula Gold-Williams, <i>President and CEO, CPS Energy</i> Kit Kennedy, <i>Senior Director, Climate and Clean Energy Program, Natural Resources Defense Council</i> Ira Ehrenpreis, <i>Founder & Managing Partner, DBL Partners</i> Terry Bassham, <i>President and CEO, Evergy, Inc.</i>

10:00 AM – 10:30 AM	Morning Break in the Exhibit Hall
10:30 AM – 12:00 PM	Breakout Sessions*

Track A: Electric Transportation	Track B: Industrial Electrification – Technologies and Implementation	Track C: Residential and Commercial Electric Technologies	Track D: Understanding the Costs and Benefits of Electrification	Track F: The Policy and Regulatory Landscape for Electrification	Track G: Breakthrough Technologies
Session A1: Setting the Stage – Understanding the Potential for Electrification of Transportation Moderator: Mark Duvall, <i>EPRI</i> Speakers: Britta Gross, <i>General Motors</i> Erica Bowman, <i>Southern California Edison</i> Robert Barrosa, <i>Electrify America, LLC</i> Matt Miyasato, <i>South Coast Air Quality Management District</i>	Session B1: Industrial Process Heating Moderator: Bud Clark, <i>American Electric Power</i> Speakers: Justin Kase, <i>Ambrell Corporation</i> Kiran Thirumaran, <i>Oak Ridge National Laboratory</i> Kevin Joesel, <i>Heraeus Noblelight America LLC</i>	Session C1: Advanced Heat Pump Technology for Homes and Businesses Moderator: Chris Gray, <i>Georgia Power</i> Speakers: Jason LeRoy, <i>Ingersoll Rand</i> Hiroshi Yoh, <i>Daikin</i> James Braun, <i>Purdue University</i>	Session D1: Understanding the Costs and Benefits of Electrification: Overview Moderator: Steve Kidwell, <i>Ameren Corporation</i> Speakers: Peter Fraser, <i>International Energy Agency</i> Tom Wilson, <i>EPRI</i> Cliff Rechtschaffen, <i>California Public Utilities Commission</i>	Session F1: The Big Picture: Key Policy Considerations for Efficient Electrification Moderator: Sheryl Carter, <i>Natural Resources Defense Council</i> Speakers: Kristin Munsch, <i>Illinois Citizens Utility Board</i> Fong Wan, <i>Pacific Gas & Electric Co.</i> Andrew McAllister, <i>California Energy Commission</i> Brien Sheahan, <i>Illinois Commerce Commission</i>	Session G1: Expert Battery Panel – The Role of Energy Storage in Electrification Moderator: Haresh Kamath, <i>EPRI</i> Speakers: Jim McDowall, <i>SAFT</i> Mike Rowand, <i>Duke Energy</i> Tony Burrell, <i>National Renewable Energy Laboratory</i>

12:00 PM – 1:30 PM	Lunch in the Exhibit Hall				
1:30 PM – 3:00 PM	Breakout Sessions*				
Session A2: Pushing the Limits on Electric Vehicle Charging Moderator: Dan Bowermaster, <i>EPRI</i> Speakers: David Packard, <i>ChargePoint</i> Brett Hauser, <i>Greenlots</i> Jordan Ramer, <i>EV Connect</i> Julie Blunden, <i>EVgo</i>	Session B2: Advancing Foodservice with Electricity Moderator: Andre Saldivar, <i>Southern California Edison</i> Speakers: David Zabrowski, <i>Fisher Nickel, Inc.</i> Rio DeGennaro, <i>Cres Cor</i> Roger Goldstein, <i>Panda Restaurant Group</i>	Session C2: The Future of Water Heating Moderator: Jeff Haase, <i>Great River Energy</i> Speakers: Paul Steffes, <i>Steffes Corporation</i> John Miles, <i>Sanden International (USA)</i> Karen Meyers, <i>Rheem</i>	Session D2: Country-Level Electrification Analysis Moderator: Trieu Mai, <i>National Renewable Energy Laboratory</i> Speakers: Geoff Blanford, <i>EPRI</i> Amanda Levin, <i>Natural Resources Defense Council</i> Jim Williams, <i>Pathways, University of San Francisco</i>	Session F2: Charging Ahead: Preparing for Mass Adoption of Electric Transportation Moderator: Max Baumhefner, <i>Natural Resources Defense Council</i> Speakers: David Kolata, <i>Illinois Citizens Utility Board</i> Phil Jones, <i>Alliance for Transportation Electrification</i> Carla Peterman, <i>California Public Utilities Commission</i> Caroline Choi, <i>Southern California Edison</i>	Session G2: Investment and Funding Trends for Electric Vehicles, Infrastructure, and More Moderator: Danny Kennedy, <i>California Clean Energy Fund</i> Speakers: Arcady Sosinov, <i>Freewire Technologies, Inc.</i> Lisa Laughner, <i>Go Electric, Inc.</i> Josh Posamentier, <i>Congruent Ventures</i> Ken-Ichi Hino, <i>Cleantech Group</i>

3:00 PM – 3:30 PM	Afternoon Break in the Exhibit Hall
3:30 PM – 5:00 PM	Afternoon Plenary Session – Technology and Electrification Arshad Mansoor, <i>Senior Vice President of Research and Development, Electric Power Research Institute</i> Vincent Halma, <i>President and Chief Executive Officer, KION North America</i> Mike Ableson, <i>Vice President of Global Strategy, General Motors Company</i> Ryan Popple, <i>President and Chief Executive Officer, Proterra, Inc.</i> Mike Whittlatch, <i>Vice President of Global Energy and Procurement, UPS</i>

5:30 PM – 7:30 PM	Start-up Pitch Panel and Reception
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6:30 AM – 5:30 PM Conference Registration

7:00 AM – 8:00 AM Continental Breakfast in the Exhibit Hall

8:00 AM – 10:00 AM Breakout Sessions*

Track A: Electric Transportation

Session A3: Vehicle Autonomy and Mobility Services

Moderator:

Watson Collins, *EPRI*

Speakers:

Robert Merlotti, *Frost & Sullivan*

Alan Dowdell, *ChargePoint*

Arac Ohana, *Envoy There*

Track B: Industrial Electrification – Technologies and Implementation

Session B3: The Promise and Potential of Indoor Agriculture

Moderator:

Bruce Bugbee, *Utah State University*

Speakers:

Hans Rosebrock, *FirstEnergy Corp.*

Guy Blanchard, *AeroFarms*

Matt Vail, *Local Roots Farms*

Don Wingate, *Schneider Electric*

Track C: Residential and Commercial Electric Technologies

Session C3: Advanced Energy Communities – Understanding Integrated, Connected and Electrified Developments

Moderator:

David Hochschild, *California Energy Commission*

Speakers:

Brandon De Young, *De Young Properties*

Pradeep Vitta, *Southern Company*

Steve Griffith, *NEMA*

Rachel Kuykendall, *Sonoma Clean Power*

Peter Turnbull, *Pacific Gas & Electric Co.*

Track D: Understanding the Costs and Benefits of Electrification

Session D3: Air Quality Impacts of Electrification

Moderator:

Naresh Kumar, *EPRI*

Speakers:

Sang-Mi Lee, *South Coast Air Quality Management District*

Eladio Knipping, *EPRI*

Nicholas Muller, *Carnegie Mellon University*

Michael Mac Kinnon, *UC, Irvine*

Track E: Grid Modernization for an Electrified Economy

Session E1: Transmission and Distribution Planning for Economy-wide Electrification

Moderator:

Daniel Brooks, *EPRI*

Speakers:

Jeff Smith, *EPRI*

Colton Ching, *Hawaiian Electric*

Lanny Nickell, *Southwest Power Pool*

Kevin Kushman, *Integral Analytics*

Track G: Breakthrough Technologies

Session G3: Advanced Data Analytics and Electrification

Moderator:

Jamie Dunckley, *EPRI*

Speakers:

John Halliwell, *EPRI*

Invited

10:00 AM – 10:30 AM Morning Break in the Exhibit Hall

10:30 AM – 12:00 PM Breakout Sessions*

Session A4: Medium and Heavy-Duty Plug-In Electric Vehicles

Moderator:

Jordan Smith, *Southern California Edison*

Speakers:

Joe Dalum, *Odyne Systems*

Joshua Goldman, *TransPower*

David Warren, *New Flyer of America, Inc.*

Erin Galiger, *ABB, Inc.*

Session B4: Industrial Game Changers

Moderator:

Joe Cresko, *U.S. Department of Energy*

Speakers:

Ryan Dehoff, *Oak Ridge National Laboratory*

Paul Delaney, *Southern California Edison*

Arend de Groot, *TNO*

Mark McCullough, *American Electric Power*

Session C4: Fulfilling the Potential of Customer Connected Devices

Moderator:

Mark Cosby, *Evergy*

Speakers:

Chris Carradine, *ecobee*

Jamie Staples, *Google*

Hugo Fiennes, *Electric Imp*

Session D4: Local and Utility Electrification Assessments

Moderator:

Delavane Diaz, *EPRI*

Speakers:

Robert Jackson, *Michigan Agency for Energy*

Guru Nadkarni, *Consolidated Edison of New York*

Dan Hopper, *Southern California Edison*

Session E2: System Integration of New Electric Technologies

Moderator:

Doug Houseman, *Burns & McDonnell*

Speakers:

Obadiah Bartholomy, *Sacramento Municipal Utilities District*

Richard Mueller, *DTE Energy*

John DeBoer, *Siemens*

Max Luke, *NERA*

Session G4: Breaking Through with the Customer

Moderator:

Robert Chapman, *EPRI*

Speakers:

Jill Anderson, *Southern California Edison*

Bruce Evans, *American Electric Power*

Shelee Kimura, *Hawaiian Electric*

12:00 PM – 1:30 PM Lunch in the Exhibit Hall

1:30 PM – 3:00 PM Breakout Sessions*

Session A5: Electric Vehicle Adoption – Understanding the Current and Future EV Customer

Moderator:

Chelsea Sexton, *Industry Advisor*

Speakers:

John Voelcker, *Green Car Reports*

Jack Stewart, *WIRED*

Shad Balch, *Chevrolet*

Session B5: Strategies for Industrial Customer Engagement

Moderator:

Scott Bishop, *Alabama Power Company*

Speakers:

Michael Stowe, *Advanced Energy*

John Podach, *Fostoria*

David Taylor, *Chromalox*

Peter May-Ostendorp, *Xergy Consulting*

Session C5: GeoExchange – Electrified Pathway to Zero Net Energy

Moderator:

Shon Richey, *Alabama Power Company*

Speakers:

Will Lange, *WaterFurnace*

Boyd Lee, *CKenergy Cooperative*

Charles Osborn III, *Norton Commons Development, LLC*

Bob Wyman, *Founder/Consultant*

Session D5: Developing New Models of Cost-Benefit Assessment

Moderator:

Charles Rossmann, *Southern Company*

Speakers:

Trieu Mai, *National Renewable Energy Laboratory*

Ken Colburn, *Regulatory Assistance Project*

Diane Huis, *North Carolina Electric Membership Corporation*

Track F: The Policy and Regulatory Landscape for Electrification

Session F3: Promoting Flexibility in an Increasingly Electrified System

Moderator:

Deana Dennis, *EPRI*

Speakers:

Scott Baker, *PJM*

Susan Mora-Schrader, *Exelon*

Nick Wagner, *Iowa Utilities Board*

Kelly Speakes-Backman, *Energy Storage Association*

Chris King, *Siemens*

Session G5: Smart Cities: Connecting Buildings, Transportation, Indoor Ag, and More

Moderator:

Emily Kirsch, *Powerhouse*

Speakers:

Mark Chung, *Verdigris*

Eric Ellestad, *Local Roots Farms*

Chrissy Carr, *Burns & McDonnell*

Ugwem Eneyo, *Solstice Energy Solutions*

ELECTRIFICATION 2018 • AGENDA • WEDNESDAY, AUGUST 22

3:00 PM – 3:30 PM	Afternoon Break in the Exhibit Hall
3:30 PM – 5:00 PM	Plenary Session Panel – The Electrified Economy <i>Anda Ray, Senior Vice President of External Relations and Technical Resources, Electric Power Research Institute</i> <i>Nancy Lange, Chair, Minnesota Public Utilities Commission</i> <i>Garrett Blaney, Chairman, European Board of Regulators</i> <i>Stuart Mason, Senior Vice President, Industrial Facilities, AECOM</i> <i>Tom Fanning, Chairman and CEO, Southern Company</i>
6:00 PM – 9:30 PM	California Boardwalk Party

ELECTRIFICATION 2018 • AGENDA • THURSDAY, AUGUST 23

7:00 AM – 8:00 AM	Continental Breakfast
8:00 AM – 10:00 AM	Breakout Sessions*

Track A: Electric Transportation

Session A6: Understanding EV Drivers – Data Analytics

Moderator:

David Owen, *CenterPoint Energy*

Speakers:

Jamie Dunckley, *EPRI*

Kathy Knoop, *Salt River Project*

Matt Stevens, *FleetCarma*

Norman Hajjar, *Recargo, Inc.*

Track B: Industrial Electrification – Technologies and Implementation

Session B6: Electrification of Multi-Modal Terminals

Moderator:

Francisco Donez, *U.S. Environmental Protection Agency*

Speakers:

Morgan Caswell, *Port of Long Beach*

Rob Lamb, *Charlotte America*

David Kiefer, *Carrier Transicold*

Don Wingate, *Schneider Electric*

Track C: Residential and Commercial Electric Technologies

Session C6: Understanding Residential and Commercial Customers

Moderator:

Erin Erben, *EPRI*

Speakers:

Matt Bingham, *Veritas Consulting*

Bridget Meckley, *Smart Energy Consumer Collaborative*

Jennifer Weeks, *BEworks*

Chien-fei Chen, *University of Tennessee, Knoxville*

Track D: Understanding the Costs and Benefits of Electrification

Session D6: The Water-Energy Nexus

Moderator:

David Rivers, *Southern California Edison*

Speakers:

Henry Day, *Arizona Public Service*

Jeffrey Preece, *EPRI*

Peter Fiske, *National Alliance for Water Innovation*

David Zoldoske, *Center for Irrigation Technology, CSU, Fresno*

Delon Kwan, *Los Angeles Department of Water and Power*

Track F: The Policy and Regulatory Landscape for Electrification

Session F4: Evaluating Electric End-Uses in the Context of an Evolving Energy System

Moderator:

Travis Kavulla, *Montana Public Service Commission*

Speakers:

Chris McGill, *American Gas Association*

Tom Wilson, *EPRI*

Roisin Quinn, *National Grid*

Keith Dennis, *NRECA*

Norman Saari, *Michigan Public Service Commission*

Track G: Breakthrough Technologies

Session G6: The Role of Hydrogen

Moderator:

Thomas Bradley, *Colorado State University*

Speakers:

Thierry Lepercq, *ENGIE*

Jack Brouwer, *National Fuel Cell Research Center*

Fritz Kalhammer, *Kalhammer Electrochemical & Energy Technology*

Chris Gearhart, *National Renewable Energy Laboratory*

Justin Ward, *Toyota*

10:00 AM – 10:30 AM	Morning Break
10:30 AM – 12:00 PM	Breakout Sessions*

Session A7: Electric Vehicles and the Grid

Moderator:

John Markowitz, *New York Power Authority*

Speakers:

Dave McCreadie, *Ford Motor Co.*

Rich Scholer, *Fiat Chrysler Automobiles*

Rajit Gadh, *UCLA*

Session B7: Water Treatment Technologies

Moderator:

Ray Ehrhard, *Washington University*

Speakers:

Oliver Lawal, *AquiSense Technologies*

Jason Snyder, *Tennessee Valley Authority*

Jordan Warren, *Murfreesboro Electric Department*

Dale Friesen, *Single Phase Power Solutions*

Session C7: Community and Campus Electrification – Universities, Bases, and Planned Developments

Moderator:

Nick Tumilowicz, *EPRI*

Speakers:

Joe Stagner, *Stanford University*

Sean Armstrong, *Redwood Energy*

Jerine Ahmed, *Southern California Edison*

Session D7: Electrification Cost-Benefit Case Studies

Moderator:

Omar Siddiqui, *EPRI*

Speakers:

Sherri Billimoria, *Rocky Mountain Institute*

Ahmad Faruqui, *Brattle Group*

Steven Wills, *Ameren*

Session F5: Electrification: The Key to Unlocking Smart Communities?

Moderator:

Becky Knox, *Edison Electric Institute*

Speakers:

Kristin Munsch, *Illinois Citizens Utility Board*

Julie Sloat, *AEP Ohio*

Jenna Tatum, *Innovation Network for Communities*

David Graham, *City of San Diego*

Session G7: Big Breakthroughs: New Materials, Chemicals, and Industrial Processes

Moderator:

Shaun Mann, *Tri-State G&T*

Speakers:

Gerardine Botte, *Ohio University*

Nick Rancis, *Fraunhofer CSE*

Darryl Pollica, *Ivys Energy Solutions*

Parker Wells, *Element 16 Technologies*