www.grid-modernization-forum.com

The **4th Annual Grid Modernization Forum**, May 20-22, 2019 in Chicago closely examines lessons learned to date by industry leaders pushing the frontiers of grid modernization and reliability. Key technology innovators and executives will come together to share perspectives on how best to leverage AMI investment, engage the customer, and take the smart grid to the next level. Case studies of improved network performance, resiliency, outage restoration, and distributed energy resource (DER) integration will be examined with an eye toward determining best practices and technology advances for today's energy ecosystem. As in previous editions, this will be a unique opportunity to network with top industry professionals who are leading the way toward effective grid modernization and the integrated, interoperable, resilient energy network of tomorrow.

Topics to be Addressed Include:

- Case study best practices and strategies for enhancing grid reliability
- Analyzing the status of NY REV and other grid mod initiatives
- Managing and integrating distributed energy resources
- Energy storage advances for improved grid performance and independence
- Ensuring interoperability between key systems
- Advanced communications networks and technologies for smart grid systems
- Advanced grid sensing, measurement and control technologies
- Energy storage and microgrids as a strategy for power resiliency and cost control
- Integrating renewables while achieving grid stability and reliability
- Enabling consumer choice while controlling costs and enhancing efficiency
- Business cases and models for next-gen smart grid services
- Recent regulatory and policy developments impacting grid modernization
- And more

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Speakers & Sessions *Note: Subject to change* *Last update: 5/10/19*

Monday, May 20, 2019

10:30 am - 12:00 pm **Pre-Conference Tour of Microgrid Demo Project at Illinois Institute of Technology**

2:00 - 4:30 pm **Pre-Conference Tour of S&C Electric's Smart Grid and Microgrid Demonstration Center**

Tuesday, May 21, 2019

7:30 - 8:30 Registration and Continental Breakfast

8:30 - 9:00 am **The Journey to Grid Modernization**

Where is the grid heading? First we need to look at how the grid has evolved. This presentation will cover the highlights on how utilities are transforming their grids for the future and their results. The modern grid will be able to host new technologies, such as microgrids. Topics discussed will be technology, financing and regulations.

- Christopher N. Evanich, Manager, Microgrids, **S&C Electric Company**

9:00 - 10:00 am **Policy, Market Trends, and Directions Forward**

Over the past decade, several utilities and commissions across the U.S. have made investments into new grid technologies, tools, and techniques to modernize the electric grid. As some of these investments are reaching full implementation, it provides opportunities for other utilities and their regulators who are contemplating similar investments to learn from the experience of the "early adopters." While such grid modernization efforts promise large benefits for utilities, customers, and society as a whole in the long term, they come with a big price tag that can, at least in the short-term, increase rates. In this session, we will review the experience with Grid Modernization investments to date and highlight lessons learned; summarize how these technologies have benefitted customers and utilities: and discuss alternative cost recovery mechanisms and business cases related to these investments.

- Sanem Sergici, Principal, **The Brattle Group**
- Brian Marchionini, Senior Program Manager, **NEMA**

10:00 - 10:15 am Coffee Break

10:15 - 11:30 am **Grid Modernization Initiatives Nationwide: The Good, the Bad, and the Ugly**

- Rodney Chong, Director-Grid Modernization, **Hawaiian Electric Company**
- Edward Yim, Energy Policy Advisor, **Department of Energy and Environment, District of Columbia**
- Paul DeCotis, Senior Director-Energy & Utilities Practice, **West Monroe Partners**

11:30 - 11:45 am Coffee Break

11:45 - 12:15 pm **Keynote Address**

- Richard Negrin, Vice President, Regulatory Policy and Strategy, **Commonwealth Edison**

12:15 - 1:15 pm Lunch Break

1:15 - 2:30 pm **Unlocking the Consumer Benefits of Data Analytics**

From smart meters, Customer Information Systems and other sources, energy data is now more widely available than ever before. This trove of data is already delivering benefits to consumers, including more accurate billing and more reliable forecasts and alerts, but looking forward, what do consumers really want to see from this data in terms of programs & services? In this session, we will discuss findings from a survey on what consumers want their utilities to do with their energy usage data and how consumers feel about data privacy, data sharing and related topics. This session will also provide recommendations on improving customer engagement in analytics-driven programs & services.

- What consumers want from their energy usage data
- What makes consumers engage in an analytics-driven program
- How consumers feel about energy data sharing and privacy
- Key recommendations for program design and customer outreach

- Colleen Ewell, Director, Customer Engagement, **Ameren**
- Patty Durand, President & CEO, **Smart Energy Consumer Collaborative**
- Brad Langley, Senior Director, Corporate Marketing, **Tendril**
- Bob King, Vice President, Policy and Governmental Affairs, **Smart Energy Water (SEW)**

2:30 - 3:00 pm Coffee Break

3:00 - 3:45 pm **Maximizing Systemwide Value of DER with Advanced Control Technologies**

Utility executives must navigate evolving technologies on the grid and in the control room - as well as changing regulatory factors. This session examines the Austin SHINES (Sustainable and Holistic Integration of Energy Storage and Solar Photovoltaics) project, which provides a holistic model for utilities to maximize economic and operational value in high-penetration DER systems.

- DER optimization insights for utilities across market segments and structures
- Balancing customer and utility economic benefits to maximize overall value and reduce costs on a systemwide basis
- Control intelligence for determining the highest value use cases for utilities on a continuous basis
- Best practices for integrating behind-the-meter and utility scale renewables and energy storage

- Troy Nergaard, Director of Technical Product Management, **Doosan GridTech**

3:45 - 4:00 pm Coffee Break

4:00 - 5:00 pm **Building a Digital, Balanced Grid Today to Enable a Sustainable Future**

Forward-thinking policymakers, utilities, and innovators are working to define and accelerate the delivery of a balanced, sustainable grid for the future. Various states and regions are currently working to establish customer and third-party data-access and customer-privacy frameworks, best practices for DR and DER integration, streamlined click-through authorization for customers' sharing, and more. Utilities are providing new data-enabled services and digital customer programs to empower and engage customers in energy-management and grid-balancing activities; saving customers costs while mitigating impacts on the environment. Technology companies and industry stakeholders are bridging the gap to assist with both technical expertise for grid modernization requirements as well as offering open, standards-based solutions.

- How are open standards, utility customer data, and data-sharing technologies being leveraged to benefit the utility and the customer?
- Utility best practices: Cost-effective implementation models; highly performing digital customer solutions
- Midwest leadership: Legislation to unleash customer energy data; protect customer privacy
- California: Lessons learned and an update on proceedings to streamline customer web navigation for authorizations ("click-through")

- Looking forward: What to expect in 2020

- John Anderson, Director, Energy Markets, **OhmConnect**
- Kristen Brown, Principal, Technology Innovation, **Exelon Utilities**
- Sarah Gulezian, Associate Director, Smart Grid Programs, **Elevate Energy**

5:00 - 6:00 pm Drink Reception

Wednesday, May 22, 2019

8:00 - 9:00 am Continental Breakfast

9:00 - 9:30 am **Optimizing Operational Execution of Grid Modernization Programs Within Utilities**

- David South, Senior Principal, Sustainability Practice, **West Monroe Partners**

9:30 - 10:45 am **Driving on Sunshine: The Dynamic Role of Managed Charging**

Governments across the world are issuing ambitious plans to decarbonize electric and transportation systems. This dual decarbonization effort to increase electric vehicles (EVs) and renewable generation will create challenges for electricity grids, but also presents an immense opportunity for electric vehicles, i.e. "energy storage on wheels," to enable a more cost-effective, cleaner electricity grid, at a fraction of the cost than if supported solely by stationary energy storage. The convergence of these two revolutionary market trends will forever transform the management of the electricity system, because renewable electricity is inflexible and intermittent, and the proliferation of electric cars will grow, alter and challenge historical patterns of electricity demand. However, smart grid EV charging, V1G, or managed charging can provide a range of grid services through intelligent modulation of unidirectional energy flows from the grid to the vehicle, such as real-time grid balancing, reducing energy costs, integrating intermittent renewable energy, reducing air pollutants and deferring expensive infrastructure upgrades.

- Managing and integrating distributed energy resources like solar and smart charging to achieve grid stability economically
- Business cases and models for next-gen smart grid services; what to expect from vehicle-grid integration in 2019
- Enabling consumer choice through BYOD programs
- Electric vehicle charging challenges and opportunities

- Joel Danforth, Distributed Energy Resources Manager, **Platte River Power Authority**
- David Schlosberg, Vice President, Energy Market Operations, **eMotorWerks**
- Jane McCurry, Electric Transportation Program Manager, **RENEW Wisconsin**

10:45 - 11:15 am Coffee Break

11:15 - 12:30 pm **Grid Modernization Stakeholder Panel Discussion: The Case Study of D.C.**

D.C. is ranked #8 in the country in grid modernization according to GridWise Alliance's most recent grid modernization index report. This is mainly due to the ongoing and comprehensive MEDSIS - or Modernizing the Energy Delivery System for Increased Sustainability - D.C. Public Service Commission initiative to foster regulatory and technology innovation, with the goal of accelerating the District's transition to a smart, modern, customer-centric, and clean energy system without compromising affordable rates, safety, and reliable service. From August 2018 to May 2019, stakeholders engaged in six working groups tackling key grid modernization topics, like non-wires alternatives to traditional utility infrastructure investments, distributed energy resource (DER) integration, and future rate design models. As you can imagine, it takes a village of engaged stakeholders

to tackle these complex issues and develop thoughtful solutions.

Learn about the grid modernization process the Commission has embarked on from a panel of key stakeholders in the District. The panel will discuss the components of successful stakeholder engagement and how collaborative grid mod initiatives can move past education and on to concrete, actionable recommendations. The panel will discuss the specific recommendations coming out of each working group for the Commission's consideration. Hear from the key stakeholders who got together and developed enhanced distribution planning processes, policies on DER ownership, regulatory frameworks for microgrids, and many more of the regulatory, policy, and operational topics around grid modernization.

- Susan Mora, Director, Utility Initiatives, **Exelon Corporation**
- Jared Leader, Senior Associate, Advisory Services, **Smart Electric Power Alliance**
- Naza Shelley, Attorney Advisor, OGC, **Public Service Commission of the District of Columbia**
- Alexandra Fisher, Policy Analyst, **Department of Energy & Environment (DOEE), District of Columbia**
- Adrienne Mouton-Henderson, Assistant People's Counsel, **OPC-DC**

12:30 - 1:30 pm Lunch Break

1:30 - 2:00 pm **Use Case Approach and Practical Methodologies for Integrating Grid Sensing, Measurement and Control Technologies**

This session will present a structured use case example that leading utilities such as ConEdison are using to help identify, delineate and integrate all of the required elements that are necessary for successful execution of control strategies. The presenter will detail an examination of this process that is undertaken to help in the requirements definitions and interfaces. The sub-element of this process will include areas such as:

- Sensors (e.g. voltage monitoring elements)
- Collection/transport networks (e.g. AMI)
- Information treatment systems (e.g. MDM),
- Decision management systems (e.g. DERMS);
- Execution and control systems (e.g. dSCADA)
- Control communications networks (e.g. SCADAcom) and
- Actuator target elements (e.g. smart inverters)

The results of this approach is used to create an overall systems perspective based on the Smart Grid Interop Framework.

- Insights into a structured way of examining all of the elements that need to be integrated to deliver results
- Harmonizing elements with other utility efforts using the SGIP Framework
- How a use case methodology can drive functional and non-functional requirements

- Ronald Chebra, Vice President, Grid Modernization, **EnerNex**

2:00 - 2:30 pm **Enabling Demand Response and Customer-Owned Energy Storage for Increased Resiliency and Reliability**

Utilities are seeking better ways to engage with customers, incentivize and manage load growth and variability, operate more efficiently, and improve reliability and resilience. This session dicusses how to better manage and optimize demand response programs as well as customer- and utility-owned solar PV plus energy storage devices to provide improved reliability and resiliency for changing loads within distribution networks. This combines utility customer service and engagement with operations, planning, and IT groups to provide enhanced options for localized peak shaving and shifting as well as improved customer reliability and resiliency. We will look at how analysis and optimization of customer and utility-owned solar and energy storage plus demand response from a combined energy and economic perspective can enhance customer satisfaction while improving utility operations and planning.

- John Dirkman, P.E, Vice President Product Management, **Nexant**

2:30 - 3:00 pm **Applying Intelligent Fast Load Shed Using IEC 61850 GOOSE**

Industrial facilities with co-generation are in critical need of load shedding to prevent collapse of the cogeneration assets. Load shedding should be sub-cycle speed to manage thousands of distributed loads within a facility. This presentation describes the capabilities of such a fast load shedding scheme spanning across a wide array of relays provided by various vendors and potentially a large quantity, and a case study system and experience of applying such a system. The fast load shed scheme discussed utilizes a proven system and makes it easy to configure larger and more complex load shed schemes.

The actual system discussed is operational at a US Naval Shipyard. Lessons learned from this case study regarding fast load shed scheme deployment, testing and operations will be examined.

- JC Theron, Technical Applications Engineer, **GE Grid Solutions**

About the Speakers

Richard Negrin, Vice President, Regulatory Policy and Strategy, Commonwealth Edison

Rich leads the development of ComEd's regulatory policies & strategies to advance the role of the smart grid to provide resilient, clean and affordable energy for ComEd's customers and communities. He is responsible for rate strategies, policy outcomes, processing of customer complaints & engagement with the Illinois Commerce Commission, as well as alignment with other Exelon clean energy delivery companies.

Prior to joining ComEd, Rich most recently served as partner and chair of the general counsel advisory group at the law firm Obermayer, Rebmann Maxwell & Hippel. In that role, he provided strategic legal counsel to large corporations and emerging businesses on a wide range of legal matters. Before he joined Obermayer, Negrin served six years as the city manager and deputy mayor of the City of Philadelphia. In that position, he acted as the chief operating officer of the nation's fifth-largest city, with a $6 billion budget and 30,000 employees. Prior to working for the City of Philadelphia, Negrin was general counsel and vice president of ARAMARK Healthcare and ARAMARK Correctional, and then vice president and associate general counsel of parent company ARAMARK Corp. He started his career as a prosecutor in the Philadelphia district attorney's office, after which he spent five years as a litigator at the law firm Morgan, Lewis & Bockius. Negrin earned his bachelor's degree from Wagner College and his law degree from Rutgers University School of Law. Among other honors, the Hispanic National Bar Association named him National Latino Lawyer of the Year. He also played briefly in the National Football League, signing contracts with the Cleveland Browns and New York Jets.

Sanem Sergici, Principal, The Brattle Group

At Brattle, the focus of Dr. Sergici's work has been on assisting electric utilities, regulators, market operators, and technology firms in their strategic questions related to energy efficiency, demand response, distributed generation, and understanding behavior of electricity prosumers. Dr. Sergici has been at the forefront of the design and analysis of dynamic pricing, enabling technology, and behavior-based energy efficiency programs in the North America. Dr. Sergici has completed numerous resource planning projects that involved development of scenarios and strategies for electric systems to meet long-range electric demand while considering the growth of renewable energy, energy efficiency, and other demand-side resources. She also has significant expertise in development of load forecasting models; ratemaking for electric utilities; and energy litigation. Most recently, in the context of the New York Reforming the Energy Vision (NYREV) Initiative, Dr. Sergici has been studying the incentives required for and the impacts of incorporating large

quantities of Distributed Energy Resources (DERs) including energy efficiency, demand response, solar PVs, and energy storage in New York.

Dr. Sergici is a frequent presenter on the economic analysis of DERs and regularly publishes in academic and industry journals. She received her Ph.D. in Applied Economics from Northeastern University in the fields of applied econometrics and industrial organization.

Colleen Ewell, Director, Customer Engagement, Ameren Illinois

Colleen Ewell is Director, Customer Engagement at Ameren. Colleen is a strategic marketing and brand executive with more than 10 years experience in driving market growth and product visibility for several leading Fortune 500 organizations. She is a visionary marketing leader responsible for leading, managing and mentoring high performance teams to exceed corporate goals and objectives. Prior to her current position at Ameren, Colleen held senior-level positions at Epsilon, Paradowski Creative, Osborn Barr, and Keller Williams Realty. She holds a Masters degree in Marketing from Webster University.

Patty Durand, President & CEO, Smart Energy Consumer Collaborative

Patty Durand is President & CEO of Smart Energy Consumer Collaborative (SECC), a nonprofit whose mission is to serve as a trusted source of information for stakeholders seeking a broad understanding of consumers' views and attitudes about energy technology and grid modernization. SECC also educates consumers and provides materials to support stakeholders in their outreach and educational efforts engaging consumers about smart energy topics.

Before joining SECC, Durand worked for the Georgia Institute of Technology where she assisted in smart grid research projects. She has an MBA from the College of William & Mary in Williamsburg, Virginia.

Troy Nergaard, Director of Technical Product Management, Doosan GridTech

As Doosan GridTech's Director of Technical Product Management, Troy has overseen the installation of pioneering megawatt-scale battery systems and the deployment of the Doosan's energy storage system fleet control and DER optimization software platform for Snohomish County Public Utility District and Austin Energy. Prior to Doosan, Troy was a Sr. Engineering Manager at Tesla Motors where he brought progressive software product developments forward for its emerging electric vehicle charging sector. Troy holds a BSEE from the University of Wisconsin-Madison and a MSEE, Power Electronics from Virginia Tech.

Craig Williamson, Senior Principal Consultant, DNV GL - Energy North America

Craig has over three decades of experience in the electric and natural gas utility industry with expertise in load research, statistical analysis, impact evaluation, sample design, and experimental design. He possesses an in-depth knowledge of data analytics, forecasting, rate design, cost allocation, demand response, and program impact evaluation. He has been an instructor since 1995 for the Association of Edison Illuminating Companies, teaching Sample Design and Statistical Data Analysis of the Fundamentals of Load Analysis Course, and more recently, Intermediate Statistical Methods. Craig started his career at Public Service Company of Colorado (now Xcel Energy) as a rate programmer, and then was manager of load research and evaluation for 10 years. Since then, he worked for several energy consulting

companies before joining DNV GL in July 2016. He has an M.A. in Applied Math (Statistics) and a B.A. in Mathematics and Theatre from the University of Colorado.

David W. South, Senior Principal, Sustainability, Energy & Utilities Practice, West Monroe Partners

David South devises innovative business solutions and strategies for clients challenged by the interaction among technologies (power generation, energy efficiency, process and environmental), commodity and financial markets, and regulatory requirements related to energy, emissions/residuals and sustainability. He has worked with numerous companies in the power generation, industrial/manufacturing, financial, technology development, and transportation sectors, as well as public-sector organizations such as trade associations, research institutions, and government agencies at the local, state and federal levels.

David combines substantial business consulting experience with deep resource, technology and delivery infrastructure experience includes coal, natural gas, nuclear power, distributed/on-site, cogeneration, renewable/clean energy and clean fuels. He has devised strategies for compliance with clean air and greenhouse gas emissions -- including making contributions to trading mechanisms for SO2, NOx, CO2, and RECs -- and water and waste residuals. For example, he is widely recognized for his work on emissions and renewable energy credit (REC) trading; monetization of clean air, greenhouse gas, environmental and energy credits to facilitate project economics; multi-pollutant control and mitigation strategies; and quantification and monetization of avoided (displaced) emissions.

Susan Mora, Director, Utility Initiatives, Exelon Corporation

As Director of Utility Initiatives, Susan provides strategic policy coordination, analysis and project management to Exelon six utilities, ComEd, PECO, BGE, ACE, Delmarva and Pepco. Susan also supports Exelon with external stakeholders, policymakers, trade associations and outreach campaigns. Issues of particular focus include electric vehicle infrastructure, renewable and microgrid integration, storage, security and resilience, and rate design. Prior to joining Exelon, Susan served 8 years as Federal Affairs Director for Pepco Holdings. In this role, she was the companys primary interface with the U.S. Congress, White House, federal agencies and national industry associations on a variety of issues impacting PHI utilities, shareholders, employees and customers. As a member of the PHI policy team, Susan also played a considerable role in assisting utility leadership assure policy consistency across the companys four jurisdictions. Issues of particular emphasis in her portfolio at PHI included cyber and physical security, event response and recovery, grid resilience, and smart grid functionality.

Susan came to the energy sector after several years as a strategic public affairs consultant focused on outreach to Congress on a wide range of issues in the technology and business arenas. Her clients included free trade advocates, microchip makers and biotech interests. Susan also spent over a dozen years lobbying across the country at the state and local levels for a variety of businesses and trade associations. Susan holds an MBA and a Bachelors in economics both from the University of Maryland.

Jared Leader, Senior Associate, Advisory Services, Smart Electric Power Alliance

Jared Leader joined SEPA in June 2017, where he joins SEPA's Advisory Services team of experts consulting with multiple utility clients researching, designing and implementing renewable energy programs and business models. Engagements involve community solar and green tariff program design, facilitating industry stakeholder engagement workshops and microgrid planning and preliminary economic analysis. Jared is the staff lead for SEPA's Microgrid Working Group and co-leads SEPA's consulting engagement with the D.C. Public Service Commission facilitating the grid modernization

(MEDSIS) working group process in the District.

Prior to joining SEPA, Jared spent three years as a consultant at Arcadis US. Jared was responsible for the design, implementation, and management of several environmental programs for both municipal and commercial clients in the energy and water sectors. Jared holds a bachelor's degree in civil and environmental engineering from the University of Virginia, where he conducted research on algae-based bio-fuels and focused in sustainable practice. He is currently earning his MS in Energy Policy and Climate from Johns Hopkins University in Washington, DC.

Joel Danforth, Distributed Energy Resources Manager, Platte River Power Authority

An innovative program manager with over ten years of experience in distributed energy research and deployment, Joel is Distributed Energy Resources Manager at Platte River Power Authority. Prior to his current position, he was Customer Services Program Manager, also at Platte River. Before joining the company in 2014, Joel was a project manager in the ETEC labs group at ECOtality, which focused on advanced vehicle testing & evaluation program infrastructure: EVSE/DCFCs, battery testing, and grid storage. Prior to ECOtality, Joel was a project officer in the U.S. Department of Energy's Office of Commercialization & Project Management, where he worked on Energy Efficiency & Conservation Block Grants at the city, county, and state levels in the Pacific Northwest and Alaska. The $75 million program portfolio includes LED streetlight and traffic signal retrofits, distributed generation including over 550kW of installed photovoltaic capacity, and 6,757,254 building square feet retrofitted.

Joel also worked as a power plants analyst at Ventyx, where he focused on power plant projects in the Western United States specializing in capital cost trends, project schedules, and renewable power plants. He conducted research and analysis of power system upgrades, including permitting, finance, design, procurement, and construction. Joel holds a BS in energy infrastructure with a minor in physics from the Metropolitan State University of Denver.

David Schlosberg, Vice President, Energy Market Operations, eMotorWerks

David Schlosberg is Vice President, Energy Market Operations and leads the company's participation in energy markets and other programs operated by regulatory agencies. He also provides industry leadership on electric vehicles and distributed energy resources in regulatory and legislative forums. Previously, he was Principal, Energy Market Analysis, within the Alphabet / Google Access & Energy division, where he was responsible for regulatory activities as well as related business development initiatives with utilities, energy management providers and renewable energy companies. Before Google, David held regulatory and government affairs roles with BrightSource Energy, a provider of large scale solar thermal power plants. David received his BS in Economics from the University of Pennsylvania's Wharton School of Business and an MBA from UC Berkeley's Haas School of Business.

Ronald Chebra, Vice President, Grid Modernization, EnerNex

Ron Chebra, EnerNex Vice President of Grid Modernization, is a recognized thought leader and industry expert in utility modernization. He has a deep operating knowledge in technology solutions in areas such as MicroGrids, Renewable Energy Integration, Smart Grid, Distribution Automation (DA), Advanced Metering Infrastructure (AMI) and Demand Response. He provides strategic consulting services to leading energy organizations and to industry suppliers of products and services in the following areas: MicroGrids, demand response, battery energy storage solutions and "Behind the Meter" technologies. Ron has over 35 years of experience, including previous positions with Verizon Enterprise Solutions, Schneider Electric and DNV GL.

John Dirkman, P.E., Vice President, Product Management, Nexant

John Dirkman P.E. provides product and program management for advanced integrated Smart Grid systems from concept through sales, design, development, implementation, and maintenance. He is responsible for driving Nexant's Smart Grid vision and strategy and ensuring product success in the marketplace. Mr. Dirkman has been with Nexant since 2015 and was previously with Schneider Electric. He has served as product and program manager for a wide variety of Smart Grid implementations. Mr. Dirkman is an active member of the IEEE and the Power & Energy Society.

JC Theron, Technical Applications Engineer, GE Grid Solutions

JC (Jacobus) Theron is Technical Applications Engineer for Grid Automation division of GE Grid Solutions. He received the degree of Electrical and Electronic Engineer from the University of Johannesburg, South Africa in 1991. Mr. Theron has 25 years of engineering experience; 6 years with Eskom (South Africa) as Protection / Control and Metering Engineer, 13 years with GE Multilin (Canada) as Product / Technical support / Protective Relaying Consultant/Protection and Systems Engineer leading the Project and Consulting Engineering team and as Product Manager, 2 years with Alstom T&D (USA) as Senior Systems Engineer and 5 years with Hydro One as Operations Assessment Engineer / P&C Technical Services Manager. He specializes in transmission, distribution, bus and rotating machines applications support and Fast Load Shed Systems, system designs and transient system testing and is member of the IEEE.

Naza Shelley, Attorney Advisor, OGC, Public Service Commission of the District of Columbia

Naza Shelley joined the Public Service Commission of the District of Columbia (Commission) in 2013 and currently serves as an Attorney Advisor in the Office of the General Counsel. Ms. Shelley provides legal support on matters designated by the General Counsel, with a focus on the electric industry. She has worked on several major electric cases including Pepco rate cases, the Pepco-Exelon Merger, and the DC Undergrounding Initiative proceedings. Naza has also successfully defended Commission actions before the D.C. Court of Appeals. Naza has led the Commission's grid modernization initiative (*Formal Case No. 1130,* MEDSIS) since 2016, overseeing development of the MEDSIS Staff Report and Vision, coordinating the stakeholder engagement process, and serving as the liaison between the Commission and Smart Electric Power Alliance, the MEDSIS working group facilitator. Naza is a graduate of the Howard University School of Law and the University of Virginia. Ms. Shelley is barred in DC and Maryland and as Corporate Counsel in Virginia. She lives in Ward 4.

Edward Yim, Energy Policy Advisor, Department of Energy and Environment, District of Columbia

Edward P. Yim is Policy Advisor for the District of Columbia's Department of Energy and Environment. In this role, he advises the Department on energy policy, performs research and data analysis, and develops innovative initiatives and projects to help achieve the Department's energy sustainability and resiliency goals. He also represents the Department before the District of Columbia's Public Service Commission. Recently, he has been leading the effort to develop the climate and energy plan to reduce greenhouse gases by 50% by 2032, called Clean Energy DC, and to develop a Zero Energy Neighborhood pilot in D.C. He has also been leading the District Government's efforts on modernizing the energy delivery system in the District to prepare for the "Grid of the Future," as well as developing non-wires solutions based on least-cost, least-carbon principles. He began his career as an architect, and then became an energy lawyer to focus on his passion for sustainability. He has practiced energy and environmental law for nearly 10 years on topics ranging from electricity market, renewable energy and natural gas, water utilities, and he is a certified passive house consultant.

Paul A. DeCotis, Senior Director, Energy & Utilities Practice, West Monroe Partners

Paul DeCotis is senior director and head of West Monroe Partners' east coast Energy & Utilities practice, based in New York City. He leads the firm's executive advisory and regulatory offerings and is an accomplished and respected executive and thought leader. Prior to joining West Monroe, Paul was managing director for contract oversight at Long Island Power Authority, and vice president of power markets, overseeing power generation, project development, contract management, integrated resource planning, including clean and renewable energy and demand response, and FERC and RTO market policy.

Paul was energy secretary for two New York Governors, chaired the State Energy Planning Board and was a member of the NYC Energy Planning Board. As the senior energy advisor to the governors, he oversaw strategy, policy, legislation, and implementation activities for the state's energy agencies. Paul has over eight dozen professional publications dealing with energy industry and policy matters and serves on several national energy related Boards.

Rodney Chong, Director, Grid Modernization, Hawaiian Electric Company

Rodney Chong is director of grid modernization at Hawaiian Electric Co. Inc. and provides leadership and strategic direction on matters related to the implementation of the Hawaiian Electric Companies' grid modernization strategy. He joined Hawaiian Electric's engineering department in 1991 and most recently served as manager of renewable acquisition, a critical role that required working with key energy stakeholders to facilitate the utilities' progress toward meeting the state's 100% renewable energy goal. Rodney has also served as Director of Energy Procurement, and Principal Environmental Scientist, also at Hawaiian Electric Co.

Brian Marchionini, Senior Program Manager, NEMA

Brian Marchionini is a Senior Program Manager at NEMA providing technical and management support in the areas of energy storage, distribution automation, & building management systems. He is also leading NEMA strategic initiatives in grid modernization, direct current in buildings and microgrids. Before NEMA, he worked as a consultant producing a range of products including strategic plans, research and development roadmaps, and other technical communication materials in the grid modernization area. Brian has a B.S. in Environmental Engineering from the University of Maryland, College Park and a M.S. in Engineering Management from George Washington University.

Bob King, Vice President, Policy and Governmental Affairs, Smart Energy Water (SEW)

Bob King has joined Smart Energy Water (SEW) as Vice President for Policy and Governmental Affairs, helping the company anticipate, and respond to, the needs of its electric, gas and water utilities. Bob has a long history in utility and energy market policy, in and out of government. Most recently Bob has provided government affairs, as well as, business development advice and support services to a long list of emerging energy technology and service companies for over 25 years, as President of Good Company Associates, Inc. He has a reputation for thought leadership and multidisciplinary collaboration, especially with respect to renewable energy, efficiency, storage, demand management, and data-driven services. Since 1999, a major area of his focus has been smart energy technology and the power of intelligence-from AMI to the Internet of things. He has most recently been focused on the issue of data accessibility and innovation.

Christopher N. Evanich, Manager, Microgrids, S&C Electric Company

Chris Evanich is the Manager of Microgrid Business Development for S&C Electric Company. In that role, he focuses on the global business development of microgrids using renewable energy, medium-voltage switching and protection, energy storage, and controls. Chris has more than 15 years of experience in the electrical power industry and has a wide range of experience in power distribution, renewable energy, and smart grid components and architecture. He has given more than 60 industry presentations and has been published in more than a dozen different publications worldwide. He holds a Bachelor of Science in Electrical Engineering from Cleveland State University and an MBA from Case Western Reserve University. Chris is a Senior Member of the IEEE, author of IEEE P2030.7, "Standard for the Specification of Microgrid Controllers," and volunteers as an IEEE PES Scholar Mentor.

Jane McCurry, Electric Transportation Program Manager, RENEW Wisconsin

Jane is Electric Transportation Program Manager at RENEW Wisconsin. She is passionate about the environment, providing value through sustainability, and advancing the future of clean and equitable energy and transportation. Prior to her current position she was Executive Director of Wisconsin Microfinance, which provides micro-loans to entrepreneurs, primarily to women, in Haiti and the Philippines who have no other access to capital. She was also an intern in the Information Management Center for the Office of Transportation and Air Quality's National Vehicle and Fuel Emissions Laboratory at the U.S. Environmental Protection Agency. Jane holds a B.A. in Environmental Studies, Operations and Technology Management from the University of Wisconsin-Madison.

John Anderson, Director, Energy Markets, **OhmConnect**

John Anderson is Director of Energy Markets at OhmConnect, a San Francisco-based residential demand response provider with a fun and engaging app that incentivizes users to reduce electricity while simultaneously controlling Internet of Things (IoT) devices within their homes. He leads the company's efforts on CPUC regulatory proceedings and CAISO stakeholder initiatives to facilitate direct participation by demand response resources in California's wholesale electricity markets. Prior to joining OhmConnect, John was Senior Market Design Analyst at Pacific Gas and Electric Company (PG&E), where he worked on CAISO and FERC wholesale electric market design, analysis, and strategy. John holds a B.A. in Economics from the University of Calgary, an M.Phil. in Economics from the University of Oxford, and a Ph.D. in Economics from Stanford University.

Sarah Gulezian, Associate Director, Smart Grid Programs, **Elevate Energy**

Sarah Gulezian is the Associate Director of Smart Grid Programs at Elevate Energy, a nonprofit organization dedicated to helping households and communities control their energy usage and costs. In this role, she oversees the strategy and execution of Elevate Energy's demand response and dynamic pricing portfolio for utility clients. Currently Ms. Gulezian directs two innovative supply options for ComEd and Ameren Illinois that connect people to the hourly market rate of electricity to reduce their bills and impact on the environment. She also oversees the Ameren Illinois Peak Time Rewards program. Ms. Gulezian leads the marketing, outreach, customer service, and research to support the over 140,000 residential customers participating in the programs.

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To arrange your participation, please contact:
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The Smart Grid Observer is an online information portal and weekly e-newsletter serving the global smart energy industry. SGO delivers the latest news and information on a daily basis concerning key technology developments, deployment updates, standards work, business issues, and market trends driving the smart grid industry worldwide. Visit www.smartgridobserver.com to sign up for a complimentary subscription.

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