



18th Edition

NORTH AMERICA

MICROGRID

GLOBAL INNOVATION FORUM

DECEMBER 5-6, 2023 • CHICAGO

The [18th Microgrid Global Innovation Forum – North America](#), December 5-6, 2023 in Chicago brings together key industry executives for focused networking and information sharing concerning the design, implementation and operation of renewables-centric microgrids in North America and globally. The emphasis is on maximizing the effective use of sustainable distributed energy resources, refining the positive business model for a range of microgrid deployments, and sharing real-world case studies in both grid-tied and off-grid environments. The event will focus on:

- Business models for multi-stakeholder, multi-partner microgrids
- Microgrids for C&I customers
- Microgrids in EV fleet charging and V2G scenarios
- Microgrids as a strategy for grid resilience and outage management
- Energy-as-a-Service, decentralization and digitization
- Leading North America case studies and lessons learned to date
- Grid-tied, utility distribution microgrids and integration with the larger grid
- Solar PV, CHP, and energy storage strategies for decarbonizing the energy mix
- Minimizing energy costs and integrating renewables on-site
- Regulatory and public policy trends and developments
- Optimizing hybrid, renewable energy systems for public, municipal, commercial, and military deployments
- Evolving the traditional utility business model
- Recent C&I deployments internationally and key lessons for the U.S.
- System architectures and alternatives
- Microgrid design, analysis, and feasibility planning tools
- Microgrid power control systems
- System modeling and analytical tools



The audience for the Forum includes microgrid project developers, owners, and entrepreneurs; utility and energy provider executives; renewable energy professionals; energy storage providers, technology researchers, investors and regulatory representatives, and more.

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Organized by: **SGO** Smart Grid Observer

Previous Microgrid Innovation Forum – North America Attendees Include

127 Energy	Department of General Services, Montgomery County	ILAW Energy	R J Energy
60Hertz Microgrids	Development Ventures	Illinois Commerce Commission	Racepoint Energy
ABB	DNV GL	Illinois Institute of Technology	Rakon Energy
Adaptive Microgrids	Dobriansky Consultancy	Industrial Economics (IEc)	Redstone Technology Integration
Advanced Control Systems	Doosan GridTech	Inspire! Montana	Ricardo Energy & Environment
Ageto Energy	Duane Morris LLP	Invenergy	RMIT University
Air Voltaics LLC	Duke Energy	itunePower Inc.	Robert H. Smith School of Business, University of Maryland
Alaska Center for Energy and Power	Dynamic Energy Networks	JGC Corporation	Rolls-Royce Solutions America
Alliance for Rural Electrification	Eaton	Kore Lithium	RTI
AlphaStruxure	e-centricity, LLP	Krevat Energy Innovations	S&C Electric Company
Ameresco	EDF Renewable Energy	Lansing Board of Water & Light (LBWL)	Saft America. Inc.
American Public Power Association	EDI Capital	Lico Energy	Sapling Financial
ARDA Power	Edison Electric Institute	Lockheed Martin Energy	Scale Microgrid Solutions
AutoGrid	Edison Energy	Microgrid Institute	Schneider Electric
Blue Pillar	Electrical Industry Group NW	Microgrid Design of Mendocino	Schweitzer Engineering Laboratories
Blue Planet Energy Systems	Electriq Power	Microgrid Knowledge Modelon	SDG&E
Bluefin Energy Solutions Inc.	ELM FieldSight	Montgomery County Department of General Services, Maryland	Siemens
Bluewave Resources	Elum Energy	Morrison Foerster LLP	Skipping Stone
Boice Dunham Group	Emera Technologies	MPR Associates, Inc.	Smart Electric Power Alliance
Bowen Advisors	EMerge Alliance	National Association of Regulatory Utility Commissioners	Smart Grid Energy Research Center, UCLA
California Energy Commission	Enbala Power Networks	National Electrical Manufacturers Association	Southern Company
California Public Utilities Commission	Enchanted Rock	National Renewable Energy Laboratory	Southland Industries
Calpine Energy Solutions	Energa Group	NaturEner USA	SparkMeter
Camden County Municipal Utilities Authority	Energy News Network	New Sun Road	Sterling Energy Assets
Canadian Solar	Energy+ Inc.	New York Independent System Operator	Strathmore Energy Research Centre
Castello di Amorosa Winery	Enernet Global	New York State Smart Grid Consortium	Sungrow Power Supply
Cenfura Energy	EnerVenue	NextEnergy	Sunverge Energy
Center for Climate and Energy Solutions	Envision Solar International	North American Substation Services	Taiwan Institute of Economic Research (TIER)
ChargePoint	Eos Energy Storage	North Carolina's Electric Cooperatives	Tesla
Citizens Energy Corporation	ERS	Northern Alberta Institute of Technology	Tetra Tech
ComAp	ESPE Srl	Novartis	Tridium
Commonwealth Edison	Exelon	Nuvve	Tuatara Group
ComRent	e-Zn	NV5	U.S. Army Office of Energy Initiatives
Concentric Power	Federal Energy Regulatory Commission	Oceanus Power & Water, LLC	U.S. Energy Information Administration
Concord Engineering Group	Fermata Energy	OMNETRIC Group	Unison Energy
Concord Engineers	FREEDM Systems Center, NC State	Pareto Networks	University of Idaho
Connect California	Future Energy Advisors	Powerflex by EDF Renewables	University of Maryland
Connected Energy	GE Grid Solutions	PSE Innowacje	University of Ottawa
Covanta	General Microgrids	PXiSE Energy Solutions	University of St. Thomas
CPS Energy	Geronimo Energy	Quebec Government Office	University of Wisconsin Milwaukee
CustomerFirst Renewables	Global Common		West Monroe Partners
Customized Energy Solutions	Gommyr Power Networks		Willdan Energy Solutions
CWL ENergy Management	GreenStruxure		Winch Energy
Daegunsoft	GRIDIRON		World Bank
DCfusion / EnSync Energy	Guidehouse Insights		
District of Columbia Public Service Commission	Harvard University		
DEIF	Hatch		
	Hitachi Systems Power Services, Ltd.		
	Husk Power Systems		
	Hydro-Quebec		
	ICF		
	I-EMS Group		

Previous Attendee Job Titles Include

- Assistant Professor, Microgrids
- Associate
- Associate Professor
- Attorney Advisor
- Business Advisor
- Business Development Director
- Business Unit Development Manager, Grid Automation
- Business Unit Director - Renewables (GB & International)
- CEO
- CEO and Co-founder
- Chairman
- Chief Commercial Officer
- Chief Marketing Officer
- Chief of the Office of Energy and Sustainability (OES)
- Co-Founder
- Co-Founder and CEO
- Co-Founder and President
- Deputy Director
- Director
- Director of Industry and Innovation
- Director, Distributed Electricity and Storage
- Editor
- Electrifi Manager
- Energy & IT Analyst
- Energy Solutions Manager
- Energy Storage Marketing/Strategy Manager
- Engineer
- Engineering Manager
- Executive Director
- Founder & Managing Director
- Founding Partner
- General Manager
- Global Sales Manager Microgrids
- Global Sector Co-ordinator, Innovative Finance
- Head of Direct Sales
- Head of Innovation - Global Infrastructure & Networks
- Head of Microgrid & Digital Substation Solutions
- Head of Project
- Independent Consultant
- Industry Research Analyst
- Journalist and Economist
- Manager of Market Intelligence, Strategy and Innovation
- Manager, Business Development
- Manager, Optimization and Forecast
- Manager, Policy and Innovation
- Manager, Smart Grid & Technology
- Manager, Technology Development
- Manager, Utility of the Future
- Manager-Emerging Technologies Office
- Managing Director
- Managing Partner
- Market Design Specialist - Distributed Resource Integration
- Microgrid Advisor
- Microgrid Laboratory Responsible
- Microgrids CTO North America
- News Director
- Of Counsel
- Operations Manager
- Partner & Co-Founder
- Portfolio Analyst
- Power Systems Group Leader
- President
- President & CEO
- Principal
- Principal Engineer
- Principal Research Analyst
- IEEE Fellow
- Program Director, Sustainable Energy Transformation and Microgrid Project
- Project Engineer
- Project Manager
- Renewable Energy Segment Manager
- Renewable Energy Specialist
- Research Associate Renewable Energy
- Research Officer
- Researcher and Industrial Engineer, Grid Integration
- Sales Manager
- Senior Analyst
- Senior Consultant Hydropower
- Senior Director, Energy & Utilities Practice
- Senior Engineer
- Senior Manager, Smart Grid Integration, North America
- Senior Portfolio Analyst
- Senior Principal, Sustainability
- Senior Vice President, Policy and Business Strategy
- SETS Program Manager
- Sr. Climate Change Specialist and Program Manager
- Technical Consultant - Power Supply & Protection
- Technical Expert – Regulatory Instruments
- Technical Sales Manager
- Technical Support Manager
- Venture Developer
- Vice President
- Vice President - Smart Grid, North America Operations
- Vice President Business Development
- Vice President, Product Management
- VP Commercialization & Product Development
- VP of Operations

Agenda

Tuesday, December 5, 2023

8:00 - 9:00 am Registration and Welcome Coffee

9:00 - 9:30 am

Electrification and Decarbonization Hand in Hand

The Brookville Smart Bus Depot microgrid started operating in October 2022 and the Equipment Maintenance and Transit Operations Center (EMTOC) microgrid is under construction. What is so important about these two projects? They are game changers. Both are powering zero emissions vehicles (transit buses) without increasing the power from the grid. With Brookville, Montgomery County and AlphaStruxure proved that the grid is NOT required to be upgraded for heavy duty EV charging. This is counter to the mainstream messaging about grid improvements to electrify transportation.

With each microgrid at these two transit hubs, not only are the sites electrifying they are also decarbonizing with the use of the microgrids. Each microgrid has a plan to move from ~60% decarbonization now to 100% decarbonization by 2030.

This session will discuss the keys to the direction taken to enable these two microgrids, the essential outcomes provided, and the applicability of these two sites to the broader transit and commercial delivery vehicle space.



Steve Pullins

Senior Vice President and CTO

AlphaStruxure

[Profile](#)

9:30 - 10:00 am

Providing Customers the Economic Benefits of their Microgrids: The Challenges and Solutions

Since microgrids have become more than standby power, providers have been able to easily show the environmental benefits but have struggled to provide customers with what their financial results will be. We all have heard very impressive microgrid presentations at many conferences. Yet, when questions arise about what their Levelized Cost of Energy (LCOE) was, or Return on Investments (ROI) are, answers commonly given have been; "that was not the microgrid's objective" or "it was really a demonstration project". Yet, microgrid growth won't truly take-off until providers can show favorable financial returns in addition to their environmental impact.

Over the years, Innovus Power has performed microgrid design and financial models on hundreds of applications. Through this experience, we can share key hurdles that commonly impede a provider's capability to financially evaluate what a customer is looking for. Some of these challenges are in the following areas:

- Project objectives
- Project roles and responsibility allocations
- Microgrid system design variation
- Performance characteristics of wide-ranging components
- Range and volatility of key system cost drivers
- Key unknown and hidden costs

Innovus Power will provide strategies it commonly deploys to overcome these hurdles and provide case examples for context in the solutions suggested.



Marc Hoffman

CEO

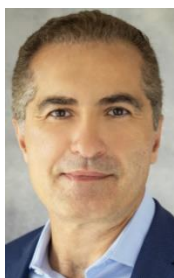
Innovus Power

[Profile](#)

10:00 - 10:30 am

Benefits of Microgrids in Municipal and Coop Power Suppliers

This session will discuss the benefits of building microgrids around a municipality or a member of a coop. After examining various forms of microgrids that can be built, we will quantify transmission and energy savings, and discuss reliability gains. The speaker will also argue that the economic gains are more than transmission and energy savings since there are short-term employment gains during the construction of the microgrid. There is also long-term employment due to O&M as well as property tax/lease income from the microgrid, all of which currently are being spent on a large power plant somewhere else in most cases.



Yashar Barut

CEO and Founder

Power Market Solutions

[Profile](#)

10:30 - 11:00 am

Networking Coffee Break

11:00 - 12:15 pm

Utility Microgrid Case Studies

Non-wires alternatives such as microgrids can play an effective role in utilities' toolbox for delivering power quality and reliability to high-value customers. They can also be an important strategy for serving remote areas where load growth is straining distribution network infrastructure. Additionally, microgrids can be a key resiliency and outage restoration option for areas affected adversely by disruptions related to extreme weather events. Furthermore, microgrids can help advance a decarbonized energy grid at the local level, where residents can become more involved in the community co-ownership and greening of their electricity service.

For these reasons and more, utilities are looking at how microgrids can play a role in their service offerings going forward. This session will look at case studies where electric utilities in the U.S. have implemented microgrids, with discussion of enabling technologies, business models, and key takeaways to date. The goal is to help provide insight and guidance as to how other utilities can utilize microgrids in their future network planning.



Paul DeCotis

Senior Partner, Energy & Utilities

West Monroe Partners

[Profile](#)



Sainab Ninalowo

Senior Manager of Smart Grid - Grid Modernization

ComEd

[Profile](#)



Michael Graves

Lead Engineer - Engineering Solutions

Alliant Energy

[Profile](#)

12:15 - 1:15 pm

Lunch Break

1:15 - 2:45 pm

Community and Multi-User Microgrids for Resilience: Implementation Challenges and Perspectives from Puerto Rico and Washington

Historically, the majority of microgrids have been developed as single-customer assets behind the meter (hospitals, Department of Defense installations, etc.) or by utilities driving the development process. Increasingly, communities are seeking to lead the development of multi-user or multi-property microgrids to meet their own goals for resilience, energy equity and independence, and decarbonization. Without utility partners, the complex business models, regulatory and technical challenges (e.g., interconnection agreements, operating agreements, and financing structures) may prevent these projects from moving forward. This panel will discuss the value proposition of multi-user microgrids, the challenges of developing them, and progress in addressing those challenges. Finally, two case studies from communities moving forward with multi-user microgrids will be presented.

Key Takeaways:

- Value proposition of multi-user microgrids for communities, utilities, and end-use customers
- Key business model, regulatory, and technical obstacles that stakeholders face when seeking to develop multi-user microgrids
- Considerations prior to developing a multi-user microgrid (e.g., who benefits, who pays, and who owns and operates)
- Examples of how these obstacles have been addressed in specific microgrid projects
- Recent developments to support communities in addressing those obstacles on future projects
- Type of change still needed to enable the widespread proliferation of multi-customer (Community) microgrids



Lee Shaver

Senior Energy Manager

Slipstream

[Profile](#)



Carlos Alberto Velázquez

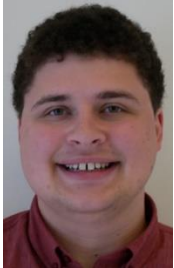
Program Director

IREC

[Profile](#)



Jared Leader
 Senior Director, Resilience
SEPA
[Profile](#)



Ben Schwartz
 Policy Manager
Clean Coalition
[Profile](#)

2:45 - 3:15 pm

Networking Coffee Break

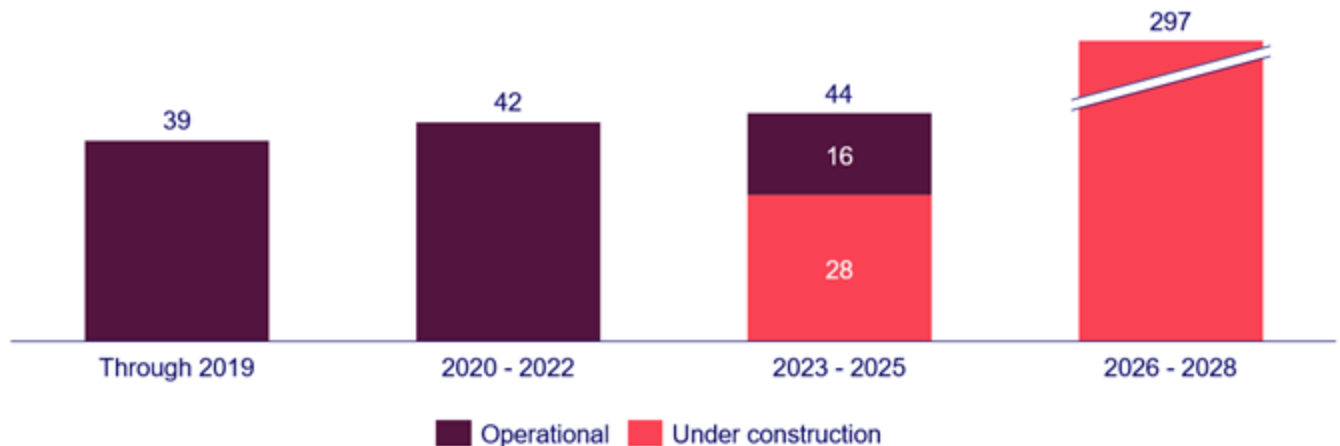
3:15 - 4:00 pm

Electrifying Transportation: Microgrid Solutions and Emerging Trends in a Changing Energy Landscape

Grid insecurity is a mounting concern as the climate and energy crises intensify. Furthermore, it is expected that electricity demand will surge by more than 35% by 2050, primarily driven by the rapid adoption of electric vehicles (EVs) and transportation electrification. To alleviate the strain on distribution networks, utilities are exploring non-wire alternative solutions to avoid lengthy and costly infrastructure upgrades. Furthermore, companies are increasingly driven by their ESG goals to electrify their fleets. Nevertheless, this transition presents challenges, particularly regarding costs. Microgrids are a shortcut emerging as a promising solution to address these challenges while offering added resilience.

Key Takeaways:

Microgrids deployed in the transportation sector: operational and under construction MW capacity through 2028



- **Interest in microgrid adoption has surged across transportation sectors since 2015:** Over 11 microgrids deployed and an additional 25 projects announced in the pipelines of utilities and solution providers through 2028, spanning e-fleets, e-bus transits, ports, and airports.
- **Microgrid-as-a-Service (MaaS) offerings as a solution to mitigate upfront costs:** The interest of various investors in MaaS for e-mobility gaining a market share exceeding 38%.
- **Added business opportunities for fleet operators:** resilience-added benefits ensuring fleet charging during grid disturbances, cost avoidance for grid upgrades, demand charge mitigation, and the modularity of advanced microgrids, allowing expansion as the fleet electrification expands over time. Modular solutions can reduce the project lifecycle by up to 40%.



Elham Akhavan

Senior Microgrid Research Analyst

Wood Mackenzie

[Profile](#)



Rachel Marcus

Principal Analyst, Grid Edge

Wood Mackenzie

[Profile](#)

4:00 - 4:30 pm

Remote Grids: A Safe and Cost-Effective Alternative to Rural Distribution Lines

In the U.S., 5.5 million miles of distribution lines stretch across the nation, with a significant portion traversing forested regions. As the grid ages, these distribution lines increasingly pose a liability for utilities, becoming vulnerable to storms and powerful winds, causing millions of power outages annually. In the western part of the country, these lines have also been known to ignite devastating wildfires. In this session, BoxPower's CFO and co-founder Anderson Barkow will be discussing three case studies, namely the Sagehen Field Station Remote Grid with Liberty Utilities, the Briceburg Remote Grid with PG&E, and the Pyramid Lake Remote Grid with Southern California Edison. These examples demonstrate how standalone solar-based power systems helped these IOUs reduce cost, mitigate wildfire risk, and improve energy resiliency for a variety of ratepayers.

Key Takeaways:

- How remote grids can reduce wildfire risk for energy providers while increasing the reliability of their grid
- How solar remote grids have cost, resiliency, and safety benefits for both wildfire-prone and aging infrastructure locations
- How the increasing threat of natural disasters will test grid resilience, especially in rural and remote areas



Anderson Barkow

Co-Founder and CFO

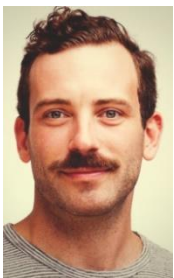
BoxPower

[Profile](#)

4:30 - 5:00 pm

A Case for Renewable Energy Microgrids

As EV adoption swells, critical charging infrastructure is subject to growing pressure on a number of fronts: 1) increased aggregate power and energy demands; 2) network coverage requiring deployments at the "grid-edge" with limited excess distribution capacity and; 3) decreased user tolerance for imperfect charging sessions. This session will present a case for renewable microgrids as a solution to ameliorate these challenges. We will describe how DERs can provide additional capacity during peak usage, and present a case for renewable-backed DCFC stations to manage DERs, EVSEs and fleets. A unique combination of IoT, AI and operations optimizations enable these microgrids and deliver affiliated benefits to utilities, site operators and end-users.



Austin Cappon

Vice President of IoT Engineering and Co-Founder

New Sun Road

[Profile](#)

5:00 - 6:30 pm

Drink Reception

Wednesday, December 6, 2023

8:00 - 9:00 am

Welcome Coffee

9:00 - 9:30 am

A Novel DERMS + Transactive Energy Platform for Microgrid interoperability with the Bulk Power Grid

With increasing numbers of distributed energy resources (DERs), fast AC & DC EV chargers and net-zero homes/buildings within T&D power grids, aggregators can form virtual power plants (VPP) and Microgrids (MG) with numerous DER, EVSE (for V2G), smart flexible loads (e.g., smart thermostats, smart appliances and programable EV chargers) to interact with the bulk power systems' operators during peak-demand hours and contingency conditions. The cooperation between the power grid operators and VPP/MG owners/aggregators is mutually beneficial for both stake holders. The power grid operators could keep the lights on during peak-demand and contingency conditions for their customers, and the VPP/MG owners/aggregators could make money for their capital investments. In this presentation, we will demonstrate the simulations and optimal management of VPP and EVSE (for V2G and V1G) resources within two distribution feeders in north America, and the positive effects of DER and EVSE on the grids' voltage stability, transformers/cables congestion relief and the overall grid reliability.



Ashkan Rahimi-Kian

Chief Technology Officer

IEMS Solutions

[Profile](#)

9:30 - 10:00 am

The End Game: Tapping Buildings as a Virtual Power Plant

To bolster the grid, buildings could play a pivotal role when transformed into a Virtual Power Plant (VPP) or a "New Utility," by forming a collective network of hundreds or even thousands of sites that harness the untapped potential of their assets, such as thermostats, electric vehicles, appliances, batteries, and solar arrays. With intelligent management of these resources, buildings can potentially and collectively offer a wide range of energy services, including capacity, energy provision and ancillary services, akin to those provided by traditional power plants.

This session will highlight the current role and market potential of small and medium commercial buildings in the energy landscape; the key challenges and barriers that hinder the

integration of smaller buildings into energy management solutions; and the kinds of opportunities and changes necessary for making buildings as VPPs a reality.

- The role and market potential of small and medium commercial buildings in the energy landscape
- The key challenges and barriers that hinder the integration of smaller buildings into energy management solutions
- The kinds of technology, business and regulatory changes that are necessary to harness the potential of small and medium commercial buildings in energy management
- A vision for how buildings and their assets can be leveraged as Virtual Power Plants (VPPs) to create an aggregated network of sites that supports the grid, and the kinds of VPP components that can contribute to grid stability and reliability



Greg Morehead

Vice President, Hardware Engineering

GridPoint

[Profile](#)

10:00 - 10:30 am

Fortifying Energy Resilience: A Case Study on the JFTB Los Alamitos Microgrid

In the heart of national security, where every second counts and every mission is critical, a silent hero stands guard, ensuring the lights never go out when the surrounding world goes dark. Join us to learn more about the installation of a comprehensive microgrid at the Joint Forces Training BASE (JFTB) in Los Alamitos, California, where we'll examine the importance of microgrids in improving energy resilience and security. We'll investigate challenges of traditional grid dependence, examine the key components of a microgrid that keep operations running during grid disruptions, and explore the added benefit of sustainable energy the Los Alamitos microgrid provides to the surrounding community.



Patrick Shoop

Senior Manager, Advanced Energy Solutions

Ameresco

[Profile](#)

10:30 - 11:00 am

Networking Coffee Break

11:00 - 11:45 am

A Phased Approach to the EV Infrastructure Buildout Using Generators, Solar, Battery Storage and Fuel Cells to Serve the Electric Semi Truck Depots of the Future

Many fleets and developers are installing EV Charging stations to support their future zero emissions trucks and buses. The larger vehicles are creating a big demand on the grid and its capacity to supply the megawatts of power needed for dozens of commercial vehicles. Often there is a significant delay in the grid's ability to provide the power necessary for these much larger loads. Often there is a significant delay in the grid's ability to provide the power necessary for these much larger loads. This session will discuss a phased approach to supporting these increasing loads utilizing best-in-class microgrid design and modeling tools. A case study of a typical freight depot based in Fontana, California will be examined.

Project Phase 1: Starting in 2024, we will use temporary generators to supplement the power for the initial 10 - 180 kW, Level 3 DC Fast Chargers to support 20 electric semi trucks hauling local loads of 30,000 pounds without any increase to the interconnection feed from the utility.

Project Phase 2: We will upgrade the site to 20 - 350 kW Level 3 DC Fast Chargers supporting 40 electric semi trucks doing regional hauling work starting in 2026.

Project Phase 3: We will add solar, battery and fuel cell backup generators to support those same chargers and trucks. This phase will also be duplicated into a similar depot operating in Chicago, IL.

With each phase Mr. Goldman will discuss the project phase results in terms of capital and operating Costs as modeled in Xendee.



Joshua Goldman

Vice President, Mobility

Xendee

[Profile](#)

11:45 - 12:15 pm

Mid Size Wind Turbines for Microgrids

Modern high tech wind turbines come in all sizes -- from small turbines to charge batteries on a sail boat to offshore giants in the ocean. Mid-sized wind turbines (80 to 100 ft tall) are an

excellent fit to meet the needs for microgrids. These turbines have been designed for microgrids, do not harm wildlife, and offer a 30-year life span. One of the keys to their offering is the ability to secure permits without the need for excessive regulations such as FAA approval. They operate effectively at moderate wind speeds and are computer-controlled for optimum power production with electronic braking. These turbines are unobtrusive in size, qualify for all rebate programs and offer additional renewable energy credits for any project.



Frank Micone

Owner/Manager

Airvoltaics LLC

[Profile](#)

12:15 - 1:15 pm

Lunch Break

1:15 - 2:45 pm

Financial Incentive for Microgrids

Our national electrical power system, for the past 15 years, has been seeing leaps and bounds in the deployment of the microgrid functionality. To match the physical benefits these systems provide to the larger macrogrid and individual customers, the industry as-a-whole can no longer wait to pass along the financial benefits to system microgrid owners. This was precisely the thinking 15 years earlier that led to our National Institute of Standards and Technology Laboratory (NIST) commissioning the Smart Grid Energy Interoperability Standards body. In 2011, NIST published a market standard known as Transactive Energy (TE), a sub-profile within EMIX1 that precisely identified the steps to standardize rate design that supports decentralized electrification assets and goals.

Ten years later, in the Summer of 2021, following the successful 3-year demonstration of a Transactive Energy proof-of- concept project sponsored by the California Energy Commission² (CEC), the California Public Utility Commission (CPUC) held a workshop and a year later launched a first-of-its-kind rulemaking proceeding, known as CalFUSE3, to permanently deploy TE state-wide. Following the wake of this rulemaking effort, the CEC, later in 2022, issued its own first-of-its-kind mandate, which validated the CalFUSE premise in rate design, and instructed the State's primary energy agencies to construct, maintain, and upload hourly dynamic price to the newly created statewide rate access tool, MIDAS4.

Key Takeaways:

Transactive Energy is more than a tariff, a binding contract; TE ensures all stakeholders: Utilities, OEMs, 3rd-party service providers, and flexible assets owners have an equitable system in place that:

- a) Provides two-way (buy and sell) cost signals based on local grid conditions, in short horizon intervals
- b) Uses asset owners' preferences to determine when an asset participates in providing grid services
- c) Supports modernization costs, absorbs stranded assets, and reduces the number of tariffs to maintain
- d) Establishes cost-causation in electricity rate design
- e) Speeds market adoption of 100% electrification and decarbonization goals



Stephen MacDonald

Founder

Energy Profit LLC

[Profile](#)



"Excellent. I have benefitted from hearing quite an array of perspectives and case studies. You have brought together a wealth of talent that generated great dialog and will stimulate cross-fertilization."

-- Larisa Dobriansky, Chief Business & Policy Innovation Officer, General Microgrids

"One of the best, with highest quality presenters on timely topics."

-- David E. Geary, PE, Co-Founder and Principal Engineer, DC Fusion



"Intra-disciplinary approach leads to this Forum as the premier program in microgrid innovations and thought leadership."

-- Michael J. Zimmer, Washington Counsel, Microgrid Institute

"This was a great networking opportunity. Speakers were interesting in and of themselves, but the mix (tech, policy, regulatory, markets) made for deeper conversations than most events provide."

-- Paul Roege, Vice President - Strategic Initiatives, Typhoon HIL

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Chicago Conference Center

205 W. Wacker Drive, Chicago, Illinois 60605

Located in downtown Chicago's Loop, the Chicago Conference Center is steps away from the city's magnificent lakefront with world-renowned Millennium and Grant Parks, marvelous museums, restaurants and retail shopping.

About the Organizer



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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Value: \$4,000

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- Tabletop exhibit space
- 4 complimentary conference passes
- 20% off additional registrations
- White paper posted on event Website
- Corporate description with link on event Sponsors website
- Company information distributed at registration check-in desk
- Attendee List with contact information

Gold Level

Value: \$3,000

- Tabletop exhibit space
- 3 complimentary conference passes
- 20% off additional registrations
- Logo positioning on event website, agenda, on-site signage, in introductory comments, and in all marketing communications for the event
- Corporate description with link on event Sponsors website
- Attendee List with contact information

Silver Level

Value: \$2,000

- Tabletop exhibit space
- 2 complimentary conference passes
- 15% off additional registrations
- Logo positioning on event website, agenda, on-site signage, in introductory comments, and in all marketing communications for the event
- Corporate description with link on event Sponsors website
- Attendee List with contact information

Bronze Level

Value \$1,00

- 1 complimentary conference pass
- 10% off additional registrations
- Logo positioning on event website, agenda, on-site signage, in introductory comments, and in all marketing communications for the event
- Corporate description with link on event Sponsors website

Registration

Early Bird Standard Rate: Service providers, equipment and software vendors, consultants *(Valid until Friday, October 27, 2023. \$995 thereafter)* \$895.00

C&I microgrid owners, project developers and utilities *(Valid until Friday, October 27, 2023. \$895 thereafter)* \$795.00

Academic, Government and Non-Profit Organizations *(.edu, .gov, or .org email address required. (Valid until Friday, October 27, 2023. \$795 thereafter)* \$695.00

Register securely online at <https://www.microgridinnovation.com/NA/register.htm>