

CONFERENCE DAY ONE • April 17, 2019

8:00 AM

REGISTRATION & COFFEE

9:00 AM

CHAIRPERSON'S OPENING REMARKS

9:15 AM

SESSION ONE: TECHNO-ECONOMIC ANALYSIS OF MICROGRID PROJECTS

- Assessing project feasibility by itemizing MG requirements, such as load requirements and societal benefits
- Alleviating unknown elements of project management, such as cost, resiliency value and regulatory requirements
- Determining a project's true cost-benefit by dividing its development process into a series of more specific cost-analysis questions

Ken Horne, Director of Energy
NAVIGANT CONSULTANTS

Sam Crawford, Managing Consultant of Energy Business
NAVIGANT CONSULTANTS

10:30 AM

MORNING REFRESHMENTS

11:00 AM

CONFERENCE PRESENTATION: CHALLENGES CAUSED BY MICROGRID REGULATORY FRAMEWORK

- Identifying discrepancies between different interpretations of a MG and their impact on regulation
- Reviewing distribution of renewable-energy MG's and how this is reflective of regional energy disparity and priorities
- Funding MG construction through implementing charges and evaluating franchise rights

11:45 AM

CONFERENCE PRESENTATION: ADDRESSING TECHNICAL CHALLENGE OF DESIGNING AND OPERATING A MICROGRID

- Deploying distributed energy sources strategically to find a functional balance between various energy sources
- Balancing load demand and peak generation times by managing energy storage devices
- Determining engineering needs of your projects, such as load flow and short-circuit current, and how to meet those needs from a design perspective

Darrell Thornley, Independent Consultant
D-TEC

12:30 PM

LUNCH

1:30 PM

PANEL DISCUSSION: GROWING THE TECHNICAL WORKFORCE OF THE MICROGRID INDUSTRY

- Emphasizing the demand for new talent by outlining current industry demographics and retirement timelines
- Developing strategies to identify and inform talent pools of engineering opportunities in MG's to create greater demand
- Partnering with educational establishments to provide outreach, training and information to future graduates to push them toward MG careers

2:15 PM

SESSION TWO: NEW CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH THE PROLIFERATION OF DISTRIBUTED ENERGY RESOURCES

- Optimizing system investments and diversifying grid services through regional planning process and community preference
- Analyzing the downsides of a shift away from centralized power supply in terms of DER forecast and visibility
- Enabling optimal communication and cooperation with DER's using efficiently-planned MG technology

Edward Yim, Energy Policy Advisor
DEPARTMENT OF ENERGY AND ENVIRONMENT

Randolph Horner, Energy & Sustainability Correspondent
NORTHEAST SUSTAINABLE ENERGY ASSOCIATION

3:30 PM

AFTERNOON REFRESHMENTS

4:00 PM

SESSION THREE: SMART ENERGY + SMART GRID + MICROGRIDS = SMART CITY

- Enhancing regional economic development utilizing the involvement of county and city governments, real estate developers, military and local utilities
- Integrating microgrids into future community development projects such as harbors, train stations, farms and rural areas, airports, fuelcell installations and many more
- Observing local case studies to determine potential growth both locally and nationally

Michael Zimmer, Washington Counsel
MICROGRID INSTITUTE

5:15 PM

CLOSE OF DAY ONE

CONFERENCE DAY TWO • April 18, 2019

8:30 AM

REGISTRATION & COFFEE

9:00 AM

CHAIRPERSON'S OPENING REMARKS

9:05 AM

CONFERENCE PRESENTATION: MASSACHUSETTS SMART PROGRAM AND ITS IMPLICATIONS FOR MICROGRID

Jerome Garciano, Attorney
ROBINSON & COLE LLP

9:50 AM

CONFERENCE PRESENTATION: DEVELOPING AND IMPLEMENTING A COMMUNITY MICROGRID

- Understanding and translating the needs of community members and key stakeholders
- Securing financing for innovative projects
- Balancing economic returns with resiliency goals
- Incorporating the economic impacts of power outages

Seth Mullendore, Vice President and Project Director
CLEAN ENERGY GROUP

10:35 AM

MORNING REFRESHMENTS

11:05 AM

CONFERENCE PRESENTATION: VEHICLE-TO-GRID ADVANTAGES IN MICROGRID STABILITY AND MANAGEMENT

- Filtering excess energy back into the grid from EV batteries to help flatten demand curvature
- Setting up reimbursement structures to incentivize EV owners to participate in regular vehicle-go-grid engagement
- Harnessing public utility vehicle batteries to assist in peak sharing, blackstart and revenue stacking

11:50 AM

CONFERENCE PRESENTATION: THOUGHTFUL PLANNING TO IMPROVE HURRICANE RESILIENCE

- Alternating power sources and storage to ensure continued power supply during critical circumstances
- Researching topography to determine areas prone to localized flooding and supplying their critical facilities with MG's to boost resilience
- Applying historical storm data to preemptively plan for worst-case scenarios

12:35 PM

LUNCH

1:35 PM

CONFERENCE PRESENTATION: MODULAR MICROGRID PLANNING FOR BETTER OFF-THE-SHELF INTEGRATION

- Reducing planning complications by planning for and incorporating more universal and readily-available parts
- Comparing costs after initial planning between tradition and modular MG project execution
- Benefiting from increased deploy-ability to assist during critical circumstances such as security or inclement weather

2:20 PM

SESSION FOUR: MILITARY APPLICATIONS AND SECURITY CONCEPTS FOR MICROGRIDS

- Highlighting the achievements of the SPIDERS JCTD and where further improvements will take the technology
- Analyzing the statistics related to a reduction in outages as a result of SPIDERS implementation and its positive effect on cost
- Outlining of process of successful renewable integration in self-sufficient military installations

3:35 PM

CHAIRPERSON'S CLOSING REMARKS

3:45 PM

END OF CONFERENCE AND AFTERNOON REFRESHMENTS