
- DoD and Service Energy Strategy and Plans – Incorporating Smart and Microgrids
- Intersections with National Grid, Commercial Developments, DOE Strategies/Plans, etc.
- Electric Vehicles and Smart/Microgrids Integration
- Smart/Microgrid Design, Development and Implementation – Success Stories and Lessons Learned
- Emerging Technologies and Capabilities – Net-Zero, Islanding, Smart Metering and more…

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Announcing the 5th Symposium on...

Military Smart Grids & Microgrids

- Plans, Programs, Opportunities and Challenges -

Washington, D.C.
November 14-15, 2012

Conference Management by:
Technology Training Corporation
The world microgrid market topped $4 billion in 2010, and according to a recent Congressional study the military microgrid market alone is projected to increase by 375% over the next decade. Microgrids, localized groupings of power generation, storage and load management units, can operate, if necessary or by design, independently from the larger power grid. Because of their size and flexibility, they are able to incorporate alternative sources of energy more easily and promise to provide increased reliability and security, critically important for both military installations (fixed and mobile) and for homeland security/the national power grid. Emerging “smart grid” technologies, including advanced metering, transmission efficiencies, smart switches, enhanced demand response capabilities, distribution automation, energy management systems, electric vehicle integration, microelectronics, integrated communication systems and others, may pave the way for the creation of “intelligent,” self-managing energy grids.

This outstanding symposium brings together the key planners and technical experts who are leading the way in developing military smart and microgrid systems. What role do smart grids and microgrids play in OSD and Service energy strategies and acquisition plans? What is the status of government smart grid and microgrid initiatives and pilot projects? How do fixed-site vs. mobile requirements differ? What are the emerging lessons learned in fixed and tactical deployments? How do OSD and Service plans and developments intersect with US national smart grid strategy? What are the cybersecurity challenges for smart and microgrids? What role will renewable energies play? What is the status and forecast for critical smart grid technologies?

These and many other critical questions will be exhaustively examined during this important two-day event.

Our Distinguished Panel of Experts

Dr. Dorothy Robyn  
Deputy Under Secretary of Defense for Installations & Environment

CAPT Kenneth Branch  
Commanding Officer, NAVFAC Washington

COL Paul Roeger  
Chief, Operational Energy Office, US Army

Mr. Paul Bollinger  
Director of Energy, The Boeing Company

Dr. Timothy McCoy  
Director, Electric Ships Office, PEO-Ships

Mr. Jeffrey Katz  
Chief Technology Officer, Energy and Utilities Industry, IBM

Mr. Stephen Schneider  
Vice President and Chief Solutions Architect, SAIC

Dr. Jeff Marqusee  
Director, DoD Environmental Security Technology Certification Program

COL (ret) Dan Nolan  
Chief Executive Officer, Sabot 6

Dr. Cheryl Martin  
Deputy Director, Commercialization, ARPA-E, DOE

Dr. Camron Gorguiopour  
Special Assistant, Asst. Secretary for Installations, Environment and Logistics, USAF

Dr. Allen Hefner, Jr.  
Assistant, National Coordinator of Smart Grid Interoperability, NIST

Mr. Chris Wildman  
Program Manager, HI Power, Army CERDEC

Mr. Brian Brown  
Chief, Strategic Asset Utilization, Air Force Real Property Agency

Mr. Will Agate  
Vice President, Navy Yard Management and Development, PIDC

Dr. Jason Stamp  
Principal Investigator, SPIDERS, Sandia National Laboratory

Dr. Lawrence Jones  
Vice President, Regulatory Affairs, Policy & Industry Relations, Alstom Grid, Inc.

Mr. Elliot Assimakopoulos  
Microgrid Commercial Leader, General Electric Energy Management

Dr. Charles Chen  
Technical Programs Manager, AC&TD, Northrop Grumman Electronic Systems

Mr. Daren Hammell  
Chief Operating Officer/Executive Vice President, Princeton Power Systems

Mr. Brad Luyster  
Vice President and General Manager, ABB, Inc.

Mr. Brian Lenane  
Senior Principal/Strategic Initiatives, SRA

Mr. Sam Booth  
Senior Project Leader, NREL, DOE

Mr. Steve Bossart  
Lead Energy Analyst, NETL, DOE

Mr. Erik Limpaecher  
Research Engineer, MIT Lincoln Labs

Mr. Christian Grant  
Energy Automation Applications Leader, Smart Grid Division, Siemens

Mr. Mike Magin  
National Application Engineer, Eaton Corporation

Mr. Jim Spaulding  
DoD Account Development Manager, Eaton Corporation

Mr. Gary Wetzel  
Director, Commercial 7 Industrial Business Development, S&C Electric

Mr. David Chiesa  
Director, Business Development, S&C Electric
Military Smart Grids and Microgrids Symposium

SYMPOSIUM AGENDA

I. Incorporating Smart and Microgrids in Government Strategies and Plans

GOVERNMENT KEYNOTE ADDRESS:

“DUSD/IE Perspectives”
DR. DOROTHY ROBYN
Deputy Under Secretary of Defense for Installations and Environment (DUSD/IE)

INDUSTRY KEYNOTE ADDRESS:

“Smart Grid and Energy Security”
MR. PAUL BOLLINGER
Director of Energy, The Boeing Company; former Deputy Assistant Secretary for Energy and Partnerships, US Army; former Special Assistant to the Assistant Secretary for Installations, Environment & Logistics, US Air Force

“Navy Installation Energy Management and Smart Grid Pilot Initiatives”
CAPTAIN KENNETH BRANCH, Commanding Officer, Naval Facilities Engineering Command (NAVFAC) Washington

“Energy Security and Mission Assurance”
COLONEL PAUL ROEGE, Chief, Operational Energy Office, US Army

“ARPA-E Perspectives and Initiatives”
DR. CHERYL MARTIN, Deputy Director, Commercialization, Advanced Research Projects Agency, Department of Energy (ARPA-E)

“Interoperability in the National Grid”
DR. ALLEN HEFNER, JR., Assistant to the National Coordinator of Smart Grid Interoperability, National Institute of Standards and Technology (NIST)

Would you like to be an exhibitor at this symposium? Host a breakfast, lunch or beverage reception during the symposium? Please contact Marcus Min @ 310-320-8128 to find out how your organization can participate.
II. Government Smart and Microgrid Initiatives

“Fleet Electrification – The Ship as a Microgrid”
DR. TIMOTHY MCCOY, Director, Electric Ships Office (PMS-320), Program Executive Office - Ships

“HI Power and Tactical Microgrids”
MR. CHRIS WILDMANN, Program Manager, Hybrid Intelligent Power Program (HI Power), Army Communications-Electronics Research, Development and Engineering Center (CERDEC)

“DoD Plug-In Electric Vehicle Program – Vehicle-to-Grid (V2G) Capabilities”
DR. CAMRON GORGUINPOUR, Special Assistant, Office of the Assistant Secretary for Installations, Environment & Logistics, US Air Force

“Energy Test Bed Demonstration Projects in Support of Microgrids”
DR. JEFF MARQUSEE, Director, DoD Environmental Security Technology Certification Program (ESTCP)

“SPIDERS Design Requirements and Advanced Microgrid Applications”
DR. JASON STAMP, Principal Investigator, Smart Power Infrastructure Demonstration for Energy Reliability and Security (SPIDERS), Sandia National Laboratory

“Microgrid Planning and Assessment at Marine Corps Air Station Miramar”
MR. SAM BOOTH, Senior Project Leader, National Renewable Energy Lab (NREL), DOE
  • Microgrid Planning and Design  • Electrical Systems Modeling  • Renewable Energy Integration
  • Energy Security Valuation and Financial Analysis

“Smart and Microgrid R&D”
MR. STEVE BOSSART, Lead Energy Analyst, National Energy Technology Laboratory (NETL), DOE
  • DOE Microgrid R&D Program and Projects  • Commercial Microgrid R&D Needs

“Using Electric Vehicles for DoD Energy Security”
MR. ERIK LIMPAECHER, Research Engineer, MIT Lincoln Labs

III. Integrating Renewable Energy Capabilities in Smart Grids and Microgrids

“Assessing Renewable Energy Opportunities”
MR. BRIAN BROWN, Chief, Strategic Asset Utilization, Air Force Real Property Agency (AFRPA)

“Defense Renewable Energy and Military Microgrids”
MR. MIKE MAGIN, National Application Engineer, and MR. JIM SPAULDING, DoD Account Development Manager, Eaton Corporation
  • AC verses DC and How to Tie it All Together  • Utility Scale Storage – Can I Afford it? Does it Makes Sense?  • What are My Alternative Energy Options and Do They Make Sense?  • Is My Microgrid and Alternative Energy Being Used Efficiently?
“Renewable Integration in Smart and Microgrids”  
DR. LAWRENCE E. JONES, Vice President, Regulatory Affairs, Policy and Industry Relations, Alstom Grid, Inc.

IV. Designing and Implementing Smart Grids and Microgrids – The Latest Tools, Methodologies and Lessons Learned

“Smart Grid Challenges and Capabilities”  
MR. JEFFREY S. KATZ  
Chief Technology Officer, Energy and Utilities Industry, and Member, Academy of Technology, IBM

“Military Smart Grids – Technical Challenges and Capabilities”  
MR. STEPHEN SCHNEIDER, Vice President and Chief Solutions Architect, SAIC

“Garrison and Deployable Microgrids”  
MR. BRIAN LENANE, Senior Principal/Strategic Initiatives, SRA

“Master Planning at the Former Navy Yard Complex – Incorporating Smart Grid Technology”  
MR. WILL AGATE, Vice President, Navy Yard Management and Development, Philadelphia Industrial Development Corporation (PIDC)

“Providing Intelligent Resilience to Microgrids – An Architecture Approach”  
DR. CHARLES Y. CHEN, Technical Programs Manager, Advanced Concept & Technology Development, Northrop Grumman Electronic Systems

“Microgrid Solutions – Creating Value for Both Utilities and Consumers”  
MR. ELLIOT ASSIMAKOPOULOS, Microgrid Commercial Leader, General Electric Energy Management  
• Microgrid Market Segments: Military Installations, Industrial, Off-Grid Islands, Utility Microgrids  
• Completed Microgrid Projects – GE’s Microgrid Solution  
• Transforming the Microgrid Market – Policy, Regulation, Collaboration, New Business Models

“Building Microgrids Today that Enable Current and Future Operational Capabilities”  
MR. CHRISTIAN GRANT, Energy Automation Applications Leader, Smart Grid Division, Siemens

“Using Smart Grid Technologies to Help Maintain Grid Stability in Microgrid Applications”  
MR. BRAD LUYSTER, Vice President and General Manager, ABB, Inc.  
• Challenges Faced During the Practical Application of Microgrids  
• Why Grid Stabilization is Important When Using Renewable Sources and During the Islanding Process  
• What Performance You Should Expect from Your Microgrid in Terms of Savings and Asset Health  
• How We Implement Smart Grid Applications within a Microgrid to Coexist with the Utility Grid

“Intelligent Energy Management for Commercial and Military Microgrids”  
MR. DAREN HAMMELL, Chief Operating Officer and Executive Vice President, Princeton Power Systems  
• Lessons-learned from North America’s Most ‘Visible’ Off-Grid PV System – Alcatraz Island  
• Intelligent Energy Management Solutions for Commercial and Military Microgrids

“Delivering Microgrid Solutions”  
MR. GARY E. WETZEL, Director, Commercial 7 Industrial Business Development, and  
MR. DAVID CHIESA, Director, Business Development, S&C Electric  
• Promise and Limitations of Current Microgrid Technologies – Islanding, Net-Zero, Operational Security  
• Field-Proven Military Microgrid Solutions  
• DoD and DOE Goals – Changing the Way We Think about Power Production and Distribution  
• Emerging Technologies – Renewables, Self-Healing, Energy Storage
**MILITARY SMART GRIDS & MICROGRIDS SYMPOSIUM**

**WASHINGTON, D.C.**  
November 14-15, 2012

- Individual
- AIE Member
- Teams 4/more*
- Active Military

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Program begins at 9:00 a.m.

**WASHINGTON, D.C.**  
November 14-15, 2012

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*We reserve the right to alter the published program if necessitated by circumstances beyond our control. The material presented in this program is based on unclassified technology and unclassified technology application areas.

**ACCOMMODATIONS:** Attendee accommodations must be arranged directly with the hotel.

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**Special Hardship Scholarship Program**

A number of seats have been set aside for every seminar and symposium for any motivated attendee who is unable to attend due to severe financial limitations of his/her company or if they are under very tight military limitations. Students will be eligible for a very substantial discount whether attending singularly or in a group. A Scholarship Fund is partially reimbursed by the Technology Training Institute. Please call or email for details.

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**CANCELLATIONS:** Substitutions may be made at any time. A cancellation service charge of $150 will be rendered for all cancellations received fifteen days or more prior to the start of the symposium date. Registrants whose cancellation requests are not received fifteen days prior to the individual symposium, as well as no shows, are liable for the entire registration fee. You must obtain a cancellation number from our registrar.

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