



**EBC Energy Resources Program
Energy Storage – Update on the State of the Industry and Opportunities
for Renewable Energy**

Friday, July 24, 2015

Massachusetts Division of Fisheries and Wildlife
Westborough, Massachusetts

AGENDA

- 9:00 a.m. **Welcome: Steve Barrett**, Chair, EBC Energy Resources Committee
 Director, Climate and Energy Practice, HMMH
- Introduction: Fran Hoey**, Program Chair and Moderator
 Senior Vice President, Tighe & Bond
- 9:15 a.m. **Making Massachusetts a Leader in Energy Storage**
- Alicia Barton, Chief Executive Officer, Massachusetts Clean Energy Center
- 9:35 a.m. **Update on Ambri and Perspectives on Electric Grid Challenges**
- Phil Giudice, Chief Executive Officer, Ambri Inc.
- 9:55 a.m. **Translating Energy Storage into Energy Customer Value**
- Miles Hovis, Senior Manager, Project Development – Energy Storage
SolarCity
- 10:15 a.m. **Networking Break**
- 10:30 a.m. **Peak Power, Solar and Energy Storage at the Grid Edge**
- Sean Becker, President, Sparkplug Power
- 10:50 a.m. **Energy Storage – An Overview of Utility Applications**
- Brian Beauregard, Superintendent – Electric, Holyoke Gas & Electric
- 11:10 a.m. **Panel Discussion**
 Panel Moderator: Fran Hoey, Tighe & Bond
 Panel Members:
- Alicia Barton, Massachusetts Clean Energy Center
 - Miles Hovis, SolarCity
 - Sean Becker, Sparkplug Power
 - Brian Beauregard, Holyoke Gas & Electric
- 12:00 p.m. **Adjourn**

PROGRAM CHAIR

Francis J. Hoey III, PE, LEED AP, Senior Vice President
Tighe & Bond
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Fran Hoey is the Tighe & Bond's Business Unit Leader directing the firm's efforts in the Renewable Energy, Education, Healthcare, and Real Estate Development markets. Fran holds professional registrations in two disciplines, civil and structural. He has served in a lead design and management role for many of our largest and most complex development projects. Fran is a Director of the firm, and also sits on the Board of Directors for the Environmental Business Council (EBC) of New England, as well as the Leadership Teams for the EBC Renewable Energy Committee and the EBC Connecticut Chapter. Fran has over a decade of experience on the Board, and is currently Chairman, of a large municipal electric company with electric generation, distribution, and transmission facilities – as well as natural gas distribution, state-of-the-art LNG vaporization, district steam, and advanced fiber optic network. He also serves as Chairman of the Board of a solar energy cooperative, with multiple projects in operation and development. Fran serves as Principal in Charge on all of Tighe & Bond's renewable energy projects, including siting, permitting, design, and construction for solar PV, anaerobic digestion, hydro, wind, and energy from waste.

He was recognized by the Boston Society of Civil Engineers for his public service efforts focusing on hydroelectric, gas, electric, and energy issues with the Lester Gaynor Award. He was recently invited by Secretary Sullivan to serve on Massachusetts Environmental Policy Act Adaptation Advisory Committee, which will advise the Executive Office of Energy and Environmental Affairs on how to address the potential impacts of climate change.

SPEAKERS

Alicia Barton, Chief Executive Officer
Massachusetts Clean Energy Center
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As Chief Executive Officer of the Massachusetts Clean Energy Center, Alicia Barton is responsible for economic development programs and initiatives aimed at building a nation-leading clean energy economy in Massachusetts. Alicia serves on the Boards of Directors for key clean energy partners such as the New England Clean Energy Council (NECEC) Institute, Greentown Labs, Retroficiency, as well as on the Advisory Board for the Fraunhofer Center for Sustainability Energy Systems (CSE).

Prior to her appointment at MassCEC in 2012, Alicia held several positions within the energy and environmental agencies of the Commonwealth including: Deputy Commissioner for Policy and Planning at the Massachusetts Department of Environmental Protection (2011-2012); Director of the Massachusetts Environmental Policy Act (MEPA) office (2008-2011); and Deputy General Counsel at the Executive Office of Energy and Environmental Affairs (2007-2008).

Alicia also served as an attorney with the Boston law firm Foley Hoag LLP in their environmental law practice. She obtained her Bachelors of Science from The Ohio State University, and earned her law degree at Boston College Law School. Her enthusiasm for climate progress is rivaled only by her passion for the Ohio State Buckeyes and her Cincinnati hometown sports teams.

Brian Beauregard, Superintendent – Electric

Holyoke Gas & Electric

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Brian Beauregard, Holyoke Gas & Electric. As Electric Superintendent of HG&E, Mr. Beauregard supervises all of the Department's electric operations, including distribution, transmission, and operations. Mr. Beauregard has been with HG&E since 1989 as a Cadet Engineer and joined the Department full time in 1992. Prior to becoming Electric Superintendent in 1999, he held various Electrical Engineering and supervisory positions. Mr. Beauregard was responsible for the conceptualization and development of the telecommunications infrastructure, which provides businesses with data and Internet services over fiber optic lines. He has 15 years of experience with managing the Department's power supply portfolio and rate setting. He has a Certificate in Public Utility Management from the Northeast Public Power Association. Mr. Beauregard has received both a Bachelor and Master of Science Degrees in Electrical Engineering from Worcester Polytechnic Institute and a Masters Degree in Business Administration from Western New England University.

Sean Becker, President

Sparkplug Power, Inc.

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Sean Becker is the President of Sparkplug Power, Inc., an energy services and project development company utilizing energy storage to provide demand charge reduction for commercial and institutional customers, and load management for municipal utilities. Sparkplug Power is the recent winner of an InnovateMass Award from the MassCEC and is a Greentown Labs member company. Sean's previous experience includes positions in finance and contract management with GE Energy, primarily focused on the hydropower business. In these roles he was responsible for claims and warranty negotiations for over 170 contracts with a total contract value in excess of \$1 billion. Prior to GE Energy, Sean worked at Cambridge Energy Research Associates (CERA) and served as a Surface Warfare officer in the United States Navy. He has an AB in Soviet Studies and Government from Cornell University and a MALD from The Fletcher School at Tufts University.

Phil Giudice, Chief Executive Officer, President and Board Member

Ambri Inc.

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Phil Giudice is the CEO of Ambri. Ambri, formerly the Liquid Metal Battery Corporation, is a technology company creating cost-effective and reliable grid-scale electricity storage solutions, enabling lower energy costs, widespread wind and solar renewable resources, and less generation, transmission and distribution infrastructure. Phil has more than 30 years' experience in the energy industry as a geologist, consultant, executive, and state official. Phil serves on the board for the New England Clean Energy Counsel and FirstFuel as well as an advisory board member for Advanced Energy Economy.

He recently received the inaugural Innovation Award from the Northeast Energy and Commerce Association. Prior to Ambri, Phil served the Commonwealth of Massachusetts as Undersecretary of Energy and as Commissioner of the Department of Energy Resources, the state agency with

primary responsibility for fulfilling Governor Deval Patrick's vision for a clean energy future. Prior to his service in the Patrick-Murray Administration, Phil was senior vice president and board member at EnerNOC, a start-up providing electricity demand-management services to businesses, institutions, utilities, and grid operators that became a public company in 2007. He was previously a senior partner and leader of Mercer Management Consulting's global energy utilities practice for 20 years. He started his career as a metals exploration geologist with Freeport-McMoRan and with Chevron.

Phil is also active in the nonprofit realm. He helped found the Center for Effective Philanthropy and served as Board Chair for 8 years. He currently serves on the President's Council of ACCION. In addition, he completed full terms on the boards of City Year Boston, First Parish Church of Wayland, and the Haitian Health Foundation. He was also the founding chair of Boston Cares.

Phil is a geologist (B.S. from University of New Hampshire and M.S. in Economic Geology from the University of Arizona) and a management professional (M.B.A. from Tuck School of Business at Dartmouth College).

Miles Hovis, Senior Manager, Project Development – Energy Storage
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Miles Hovis is a Senior Project Development Manager at SolarCity, focused on the development of combined solar and energy storage projects in Massachusetts and throughout the Eastern United States. In this role, Miles helps public, institutional and commercial clients reduce their cost of energy through the tailored application solar PV and battery technology. Miles also works with industry groups and policymakers to advocate for regulations and incentive programs designed to accelerate the adoption of energy storage and renewable energy. Miles has over 5 years of experience working in the clean energy sector, and has contributed to the deployment of over \$50 million in renewable energy and energy storage projects.

Upcoming EBC Programs

- August 8 – EBC Young Environmental Professionals Volunteer Day
- August 12 – EBC Fifth Annual Softball Game
- August 19 – EBC Rhode Island Chapter Program Planning Meeting
- August 19 – EBC 21st Annual Summer Garden Party
- September 2 – EBC Young Environmental Professionals Committee Meeting
- **September 9 – EBC Energy Resources Committee Program Planning Meeting**