



EBC Solid Waste Management Program: Where are all the Anaerobic Digesters?

Challenges to Developing AD Projects in Massachusetts

Tuesday, February 2, 2016

Massachusetts Division of Fisheries and Wildlife
Westborough, Massachusetts

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AGENDA

- 9:00 a.m. **Welcome – Thomas Mackie**, Chair, EBC Solid Waste Management Committee
Managing Shareholder, Mackie Shea, PC
- Introduction – David Adams, P.E.**, Program Co-Chair and Moderator
Senior Vice President/Principal, Sanborn, Head & Associates, Inc.
- Sultana Haque, P.E.**, Program Co-Chair
Natural Resources Project Manager, HDR Engineering, Inc.
- 9:10 a.m. **Anaerobic Digester History and Regulatory Review**
- James Doucett, Director, Clean Energy Results Program
Massachusetts Department of Environmental Protections
 - Nancy L. Seidman, Assistant Commissioner, Bureau of Air and Waste
Massachusetts Department of Environmental Protection
- 9:35 a.m. **Marketplace/Demand for the Management of Organics Waste**
- Tony Barbagallo, P.E., Director of Business Development, Casella Organics
- 10:00 a.m. **Challenges Regarding Air Emissions Controls and Electrical Interconnection**
- Thomas Yeransian, Principal, CommonWealth Resource Management Corp.

10:25 a.m. **Networking Break**

10:40 a.m. **The Market for the Purchase of Renewable Power**

- Brandon Moffatt, Senior Vice President of Energy, Harvest Power

11:05 a.m. **Panel Discussion**

Overcoming Challenges with Recommendations to Kick Start the Industry

Moderator: **David Adams**, Sanborn, Head& Associates, Inc.

Panel Members:

- James Doucett, MassDEP
- Nancy Seidman, MassDEP
- Tony Barbagallo, Casella Organics
- Thomas Yeransian, Commonwealth Resource Management Corporation
- Brandon Moffatt, Harvest Power

12:00 p.m. **Adjourn**

PROGRAM CO-CHAIRS

David Adams, P.E., Senior Vice President / Principal
Sanborn, Head& Associates, Inc.
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David Adams, a licensed professional engineer in 10 states, is a partner and senior vice president with Sanborn Head. Mr. Adams leads the firm's solid waste client service area. He has been involved with permitting, design, and operations for landfill gas-to-energy projects, gas collection system evaluations, and other solid waste and air quality consulting services.

David has a B.S. in mechanical engineering from the University of Vermont and an M.S. in civil engineering from Colorado State University.

Sultana Haque, P.E., Natural Resources Project Manager
HDR Engineering, Inc.
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Sultana Haque is a Project Manager within the Resources Group at HDR Engineering and is a licensed professional engineer in Massachusetts and in Michigan. Ms. Haque's experience includes consulting services for waste to energy projects and landfill gas-to-energy projects; design, permitting, construction monitoring and operation of landfill gas collection and control systems; and solid waste and air quality consulting services for public and private entities.

Sultana Has a B.S. and M.S in Civil Engineering from Purdue University, West Lafayette, Indiana. .

SPEAKERS

Tony Barbagallo, P.E., Director of Business Development
Casella Organics
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Tony is responsible for leading the Company's business development efforts including the siting of new organics recycling facilities and the oversight of major upgrades to our existing facilities. He joined the Company in 2012 with a background in integrated solid waste management systems, project development, construction, and civil engineering. Tony is a registered Professional Engineer with over 25 years of experience in the solid waste industry, including 20 years as Facility Manager for Vermont's Chittenden Solid Waste District. In addition to his project development efforts within Casella Organics, Tony is also helping to lead the Casella team in the expanding field of food waste processing and its diversion from landfills to composting and anaerobic digestion.

James Doucett, Director, Clean Energy Results Program
Massachusetts Department of Environmental Protection
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James Doucett is the Director of the Clean Energy Results Program (CERP) at the Massachusetts Department of Environmental Protection. The CERP program was established in 2011 as a unique partnership with the Department of Energy Resources (DOER) and the Massachusetts Clean Energy Center (MassCEC) to advance environmental protection through the development and permitting of renewable energy and energy efficiency projects throughout Massachusetts, resulting in cleaner air, water and land.

James was previously the Deputy Director for Regulatory Standards in the Bureau of Waste Prevention focused primarily on regulatory and policy development for solid and hazardous waste. Recently he managed the revisions to the solid waste site assignment and permitting regulations to streamline the regulations and to smooth the way for siting anaerobic digestion facilities and other types of conversion projects. James graduated from Kenyon College with a degree in biology and obtained a Masters from the Ohio State University in zoology.

Brandon Moffatt, Senior Vice President of Energy
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Brandon Moffatt is Harvest's Senior Vice President of Energy. Brandon has extensive management and technical experience in the environmental, waste and renewable energy sectors. He leads the company's Energy Group responsible for future project development, engineering design, feedstock procurement and technical support of complex organics processing and anaerobic digestion sites across North America plus Brandon is responsible for the company's energy gardens in Orlando, Florida and London, Ontario. Brandon has an MBA from the Odette School of Business and holds a B.ASc. in Environmental Engineering from the University of Waterloo.

Nancy L. Seidman, Assistant Commissioner, Bureau of Air and Waste
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Nancy L. Seidman is the Assistant Commissioner for the Bureau of Air and Waste at MassDEP. In that position, she manages three Division's that cover solid and hazardous waste permitting, policy, compliance, enforcement and monitoring, air quality regulatory and monitoring programs, climate and energy policy and regulations, other toxic pollutant reduction programs, and a range of fiscal and data operations. Ms. Seidman has been at MassDEP since 1995. She has also worked for the US EPA in New England, and the Northeast States for Coordinated Air Use Management. She holds a BS in engineering from Cornell and an MBA from Boston University.

Thomas Yeransian, Principal
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Thomas Yeransian is a principal and a founder of CommonWealth Resource Management Corporation, a management and environmental consulting firm focusing on issues and opportunities related to resource conservation, recovery and utilization. Founded in 1991, CommonWealth is also a developer of renewable energy and environmental projects on its own and through strategic partnerships. With over thirty years of professional experience as a project developer and consultant, Mr. Yeransian manages the development, licensing, engineering and operation of projects in the areas of solid waste management, renewable power generation, and anaerobic digestion. Mr. Yeransian has bachelors' degrees in chemical engineering and economics from Tufts University and a master's degree in business administration from Boston College.

Upcoming EBC Programs

- February 12: NH Chapter – Contaminants of Emerging Concern
- February 24: Solid Waste Management Program – Recycling Markets Update
- February 26: Connecticut Chapter – Legislative Update
- March 3: Connecticut Chapter – Briefing from CT DEEP Deputy Commissioner
- March 4: Climate Change Program – Impact of Sea Level Rise on Coastal Communities
- March 16: Evening Program with MassDEP Commissioner Suuberg
- March 18: Energy Resources Program – Regional Energy Infrastructure'
- March 22: Connecticut Chapter – Critical Impact of Stormwater
- March 29: Energy Resources Program – Expanding Renewables, Grid Reliability
- April 14: "Talking Trash" Solid Waste Management in Northern New England
- May 5: Rhode Island Chapter – Solid Waste Management Update
- **June 16: EBC 23rd Annual EBEE Awards and 26th Annual Meeting**

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