Scott McBurney  
Vice President Operations – Boston & Cambridge  
25 years experience Designing, Building and Optimizing operations of Combined Heat and Power Systems

Patrick Haswell  
Director of Business Development – Greater Boston/Cambridge area  
25 years experience optimizing district energy customer connections
World’s leading environmental services company
   No. 1 largest environmental firm
   No. 1 in water partnerships
   $29.6 billion in annual global revenue
   180,000 employees

North America
   $2.2 billion in annual revenue
   7,900 employees

3 Activities
   Energy
   Waste Management and Cleaning
   Water and Wastewater
Boston-Cambridge Service Territory

Reliable “Green Steam” avoids 475,000 tons of CO₂ annually

Veolia serves the critical energy requirements of 250 customers in the central business district of Boston, the biotechnology corridor of Cambridge, and the Longwood Medical Area (MATEP):

- World-renowned healthcare facilities; including all large healthcare facilities in Boston
- Biotechnology and pharmaceutical leaders
- Prestigious office buildings
- Several Boston icons and major tourist destinations
- Hotels
- Universities
- 70% of the high-rise office buildings in Boston
Traditional Efficiency
35%

CHP/Microgrid
80%

Benefits:
- Less Fuel for useful outputs
- Reduced emissions/Carbon Footprint
- Local Reliability/Resiliency
- Reduces Peak Demand
Veolia acquired MATEP in 2010 with a financial partner and provides energy plant operations & management under a long-term agreement.

- The MATEP total energy plant supplies five Harvard Medical School-affiliated hospitals with electricity, steam and chilled water
  - Serving more than 12 million square feet of space in 74 buildings
  - 2.4 million outpatients annually
  - 117,500 tons of CO2 emissions avoided
  - Equivalent of 13,000 homes electric usage in CO2 savings

- Designed with multiple layers of redundancy so it can operate and remain fully functioning during a power outage.
- Ensures critical operations at hospitals and research centers served by MATEP can continue without interruption.
Microgrid: Resilient energy for medical research and development

- Leader in biotechnology, research and manufacturing in Cambridge, Mass., required uninterrupted process steam and power.
- Comprehensive operation and maintenance of central steam/electricity generation.
  - 5-megawatt (MW) combined heat and power (CHP) plant runs silently in a sub-level below its campus in Cambridge.
  - As part of the services to the firm, Veolia provided energy management and advisory services during development and construction of the plant.
- The Cambridge steam network provides back-up service for the system in which extreme reliability is a process requirement.
- During a recent blackout, the biotech firm was the last light on in Cambridge, Mass. --- a testament to the system’s resiliency and independence.
Veolia Commitment to Boston and Cambridge

- Boston and Cambridge district energy networks
- MATEP – Longwood Medical CHP
- On-site CHP operation
- Kendall Station
- 240 Employees and growing

Innovative $112 million investment generates significant benefits for Cambridge and Boston

- Reduces Greenhouse Gas emissions by 475,0000 tons annually—the equivalent of removing 80,000 cars from the road
- A 6% reduction in non-transportation carbon emissions for both cities
- Minimizing thermal pollution from the Charles River ecosystem
- Improving air quality, reducing NOx and SO2 emissions by approximately 36% and 61% respectively

Innovative investment generates significant benefits
Up to 75% of Veolia’s heat supply consists of “Green Steam”
Veolia Contacts

• Veolia Can assist with:
  o Design
  o Build
  o Engineering
  o Operation/staffing

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