NYWEA’s Lunch & Learn  
December 2, 2020  
12-1 pm

Presentation Title: Achieving Sustainability through EV Fleet Conversion in NYC and Beyond: Policy and Implementation

Approved for 1 PDH

Faculty:

Jennifer Roberton, AICP, is a Senior Transportation Policy Advisor at the New York City Mayor’s Office of Sustainability. Their office puts forward policies, programs and legislation that reduces the pollution that worsens the impacts of climate change. Jen’s work on transportation aims to eliminate the pollution that comes from tailpipes by identifying funding for electric vehicle charging for New Yorkers to use as well as conducting research on the best way to legislate and form new policies to reduce our reliance on vehicles all together. As an avid cyclist, you can find Jen riding her bike around on most days.

Mark Barmasse, PE, LEP, BCEE is a Professional Engineer and Board-Certified Environmental Engineer who has over 38 years’ experience in managing a wide range of energy, water, wastewater and waste management projects. He is Arcadis’ Director of Energy Services and leads the company’s efforts in the areas of renewable energy, energy management, waste to energy, and the adoption of innovative energy technologies. Mark is a member of Arcadis’ urban mobility team responsible for coordinating the electric vehicle aspect of transportation strategies. He is also involved with developing the energy elements of sustainability programs and evaluation of carbon capture, sequestration and reuse technologies to mitigate GHG emissions.

Margaret Oloriz, EIT, is an engineer and consultant with over 7 years of experience working with public and private institutions on infrastructure and technology transformations. Her project experience focuses on making cities more resilient and livable using engineering design, data analytics, and intelligent utility solutions. Margaret is passionate about clean transportation and mobility. She is currently implementing programs in the northeast that encompass transitioning to electric vehicles.
AGENDA:
12:00 – Introductions (2 min)
12:02 - NYC Policy Overview and Adoption (20 min)
12:17 - EV Benefits and Implementation Considerations (15 min)
12:42 - Case Studies (15 min)
12:50 - Questions and Answers (8 min)
1:00 Adjourn

Abstract:

Achieving Sustainability through EV Fleet Conversion in New York City and Beyond

Abstract

From trucks to light-duty vehicles, fleet owners and municipalities across the country are considering the transition to electric vehicles (EVs). EVs present multiple benefits to cities and organizations: lower operations and maintenance costs versus fossil fuel, streamlined operations, and most importantly environmental benefits including significant reductions in curbside GHG emissions. Regulatory changes, more competitive pricing, improvements in battery and vehicle performance, and the increased availability of electric charging infrastructure are leading to a rapid projection in EV adoption in the next 20 years. New York City is on the forefront of this transition, recognizing the benefits and planning for the transition.

This presentation will introduce New York City’s leadership on reducing the pollution that worsens the impact of climate change. As a zero-tailpipe emission technology, electric vehicles present opportunities for fleets to transition to more sustainable options. The Mayor’s Office of Sustainability will provide an overview of current policies, legislation, and programs that support vehicle electrification as well as presenting specific examples of EV adoption in the City.

As regulatory requirements change to further advance cleaner transportation technologies, and organizations seek to improve their bottom line and sustainability profile, there is a strong business case for utilities to convert their fleet to EVs. This presentation will then discuss why conversion to EVs may be a good decision for an organization, and some of the implementation considerations. The current state of the EV market and fleet technology, potential economic and GHG benefits, vehicle use and logistical issues, potential operational and maintenance efficiencies, and the infrastructure needed to support EV conversion will all be discussed. The presentation will further evaluate financial opportunities and available incentives across the country.

Last, a case study on fleet conversion will show how detailed operational planning will ensure EV roll-out success. The case study will dive into a transportation authority’s goals in converting their diesel buses to an EV fleet, the specific challenges they faced in EV fleet conversion, and how these challenges were overcome.