NYSERDA / NYSDOT 2013 Collaborative Transportation Research Program

Joseph Tario – NYSERDA Transportation R&D

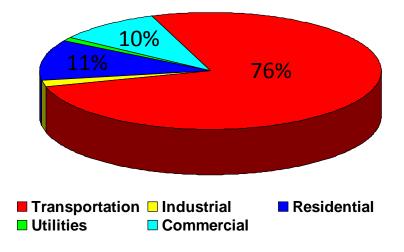
Robert Ancar – NYSDOT Policy & Performance

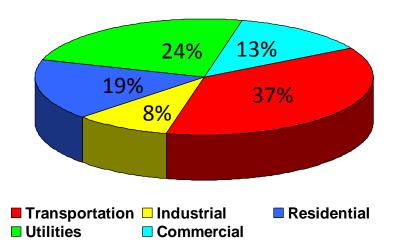


NYS Transportation Energy Statistics

NYS Petroleum
Consumption (2010)

NYS Fuel Combustion Greenhouse Gases (2010)





242 million barrels (4% of US total)

194 million tons CO2 equivalent

Source: NYSERDA 2012



Fitting the Pieces Together Technology Legislation Funding Sources Strategic Partners Mobility & Reliability **Energy & Environment Economic Viability** Safety & Security

Collaborative R&D Program History

- 2001 C012668 \$7.5M SPR (8 yrs)
 Transportation Infrastructure
 Research Consortium (TIRC)
- 2006 initiated joint research PONs
 73 projects to date \$9.5M NYS funds
- 2009 C030749 \$4.5M (3 yrs)
 Research Partnership Agreement I
- 2013 C031105 \$24M (8 yrs)
 Research Partnership Agreement II





Program Opportunity Notice 2881

\$3,000,000 NYS Funding Available Planned Release in January 2014

Four Focus Areas Anticipated

- 1. Transportation Resiliency and Adaptation
- 2. Active Transportation and Demand Management
- 3. Integrated Corridor Management
- 4. Freight Transportation and Mobility



PON 2881 Funding Categories & Limits

- Education and Technology Transfer \$30,000 with 25% cost share
- Policy Research and Feasibility Studies
 \$150,000 (\$100,000 with 25% cost share, 35% above that)
- Underutilized Strategy Demonstrations
 \$200,000 with 25% cost share
- Collaborative Partnerships
 \$300,000 with 25% cost share
- Underutilized Technology Demonstrations
 \$500,000 (\$350,000 with 25% cost share, 35% above that)





Education and Technology Transfer

New Lighting Technologies and Roadway Lighting:

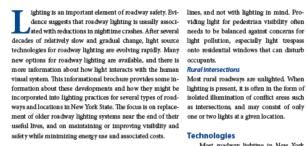
An Informational Brochure

Developed by the Lighting Research Center (LRC) at Rensselaer Polytechnic Institute

Project Sponsors:

New York State Energy Research and Development Authority (NYSERDA)

New York State Department of Transportation (NYSDOT)



Types of Roadways Discussed

to freeways. This brochure focuses on three types of roadways.

limited access control. They often carry traffic at fairly blob. huminous efficacy, or humens per watt), their speeds (greater than 40 mph) but are not built to the same long useful lives, and their ability to mainstandards as most freeways. Parkways may have more wind- tain relatively high light output throughout ing turns and changes in elevation than typical free ways; light-their lives (called lumen maintenance). All ing might assist drivers in identifying and responding to these of these factors combine to produce effiroadway features safely. Many parkways are considered his- cient, long-lasting and predictable lighting toric or scenic in character, and maintaining this character is system performance often an important lighting design consideration.

Residential streets

In many residential areas, the focus of lighting is more on . Metal halide (MH) lamps. These nighttime pedestrian activity than traffic safety. Many residential street lighting systems are mounted on existing utility poles, which are located for the purpose of carrying utility

Technologies

Most roadway lighting in New York State presently uses high pressure sodium Roadways in New York State range from residential streets (HPS) lamps. HPS lamps produce a "vellowish' color of illumination, and are popular because of their relatively low initial These are usually highways with designed landscaping and cost, their efficiency (expressed in terms of

In the past decade or so, several alternatives to HPS have emerged:

lamps are similar in construction and operation to HPS lamps, but the maSave the Date



PRESENTED BY UNIVERSITY TRANSPORTATION RESEARCH CENTER - REGION II

In collaboration with:

- IDMEC Instituto Superior Técnico, Lisbon
- · New York State Energy Research and Development Authority (NYSERDA)
- New York State Department of Transportation (NYSDOT)

Date:

Friday, October 4, 2013

Time:

8:30am - 4:30pm

Location:

Baruch College/CUNY William and Anita Newman Conference Center 151 East 25th Street, 7th Floor, New York, NY 10010.



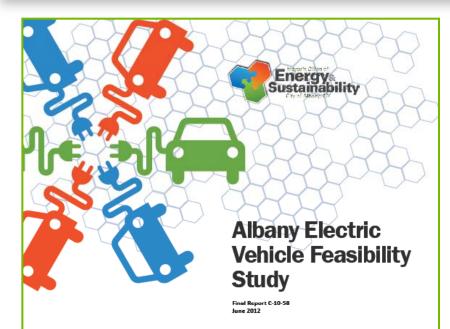
www.utrc2.org/events/lastmilefreightdelivery.com







Policy Research and Feasibility Studies







Prepared for: The City of Albany, New York Gerald D. Jennings, Mayor Douglas Melnick, AICP, Director of Planning

The New York State Energy Research and Development Authority Joseph Tarlo, Project Manager

New York State Department of Transportation Colleen Smith-Lemmon, Project Manager

Prepared by: VHB Engineering, Surveying and Landscape Architecture, P.C.

VESSEL ELECTRIFICATION FEASIBILITY STUDY FOR THE NEW YORK STATE CANALS

Final Report

Prepared for

THE NEW YORK STATE
ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

Albany, NY

Joseph Tario Senior Project Manager

Prepared by

NEW WEST TECHNOLOGIES, LLC

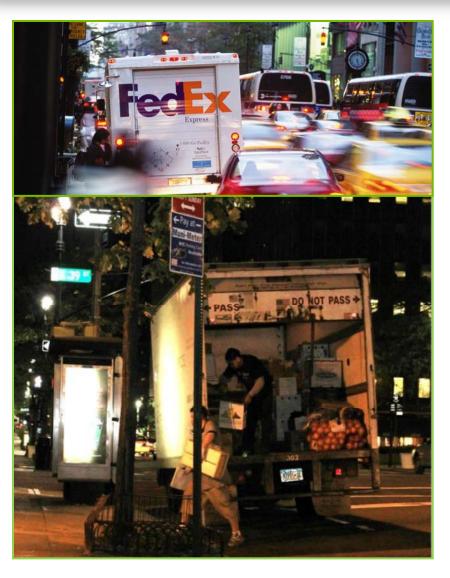
Yorkville, NY

Russell Owens, P.E. Paul Windover

NYSERDA Contract 25735

October 2013

Underutilized Strategy Demonstrations







Collaborative Partnerships

Buffalo Niagara Medical Campus



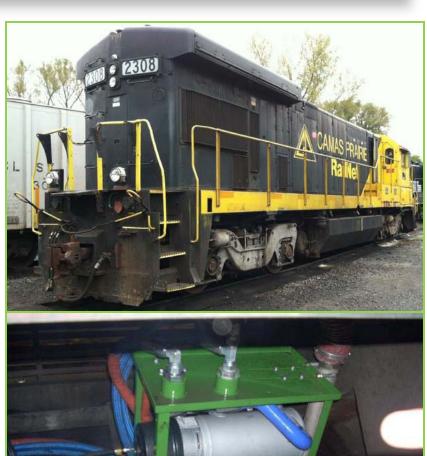
- surveys & assessments
- car/bicycle sharing
- vanpool pilot study
- complete streets summit
- education & outreach
- employee champions
- ride matching services
- tiered transit incentives
- parking management
- guaranteed ride home
- smartcard pilot program

for more info ... www.gobnmc.org



Underutilized Technology Demonstrations





Thank You!



Joseph D. Tario, P.E.

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