MAPC: CLEAN ENERGY

Regional Energy Projects
- ESCO Procurement
- Regional Solar Initiative
- LED Streetlight Purchasing Program
- Community Electricity Aggregation
- Green Mobility Program
- Energy Resiliency

Climate and Energy Planning
- Connecting municipalities with incentives + plug-and-play programs
- Community energy and climate baselining, planning, and strategizing
- Outreach programming and education
- Net Zero Planning

Energy Technical Assistance
- Grant Writing
- Green Communities Designation
- Methane Leaks
- Solar Permitting and Zoning
- State and Local Policy
- Net Zero Guidance & Education
Accelerate the deployment of alternate fuel vehicles (AFVs) by reducing their incremental costs and building fleet capacity to plan procurements.

Propane, electric, and natural gas vehicles and infrastructure.
Piloting the Group Purchasing Program
2016-2017
VEH102 Vendors

Category 1
CHARGING STATIONS

Category 2
IDLE REDUCTION

Category 3
AFTERMARKET CONVERSIONS

VEH102: Statewide Contract for Advanced Vehicle Technology
Identifying the Opportunity

Nearly 50% of municipal vehicles are Ford. Other popular makes include Freightliner, Chevrolet, Blue Bird, and International. Source: MA Dept. of Energy Resources, Green Communities Division (2015)
Accelerated Time-Based Discounts

**DAY 1 – DAY 30**
- **3%**

**DAY 31 – DAY 90**
- **1.5%**

**DAY 91 – DAY 180**
- **0%**

**Volume-Based Discounts**
- 6+ vehicles
- 20+ vehicles
- 100+ vehicles

**XL Hybrids**

**MAPC**

**DOER**

Massachusetts Department of Energy Resources
Results from the Pilot Round

- 28 vehicles
- 4 fleets

- 11-19% discounts
- 1-2k per vehicle

- 25-30% average fuel economy improvement
Group Purchasing Program Opportunities in 2018
2018 Group Purchasing with MAPC

EV CHARGING STATIONS

AFTERMARKET CONVERSIONS
Timeline

JAN - MAY

- Community interest survey

JUN

- Collect specifications for both RFQs

JUL

- Issue aggregate EV station RFQ

AUG

- EV station site assessments & install quote process
- Select EV station equipment vendor(s)

SEP - NOV

- Coordinate installs for both RFQs

Exact timing subject to change, per community purchasing needs
EV CHARGING STATION BID

1. Level II and DCFC stations
2. Coordinated site assessments
3. Installation
SPECIFICATIONS NEEDED

- Collect specifications for RFQ
- Workshop with VEH102 Vendors: 5/8
- Issue aggregate Request for Quotes (RFQ): 7/9

For each station:
- Level of Charge
- Voltage
- # of Ports
- Payment System
- Network Capable (Y/N)
- Desired Network Functions
- Mounting Type
- Cable Management
SPECIFICATIONS NEEDED

### Equipment

- Collect specifications for RFQ
- Workshop with VEH102 Vendors 5/8
- Issue aggregate Request for Quotes (RFQ) 7/9

### Site

For each station:
- Approx. site address
- Existing site load capacity
- Distance from power source
- Cell signal availability (Y/N)
- Excavation needed (distance/surface type)
- Physical protections needed
AFTERMARKET CONVERSION BID

1. Hybrid electric conversions
2. Plug-in hybrid electric conversions
SPECIFICATIONS NEEDED

For each vehicle:
- Alternative fuel type
- Vehicle body style
- Make
- Model
- Model year
- Engine type/size
- Wheel base
- Conversion type (retrofit or up-fit)
Next Steps & Related Opportunities

EV Charging Station Specifications Template
Send to MAPC no later than July 2, 2018

Aftermarket Conversion Vehicle Specifications Template
Send to MAPC no later than July 2, 2018

Download the specifications templates at:

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