

Getting Ready: Alternative Fuel Vehicle Readiness Planning at the Local Level

New Jersey Clean Air Conference
Public Meeting
NJDEP

April 12, 2018

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Defining the Vision. Shaping the Future.



NJTPA

**NORTH JERSEY
TRANSPORTATION
PLANNING AUTHORITY**

NJTPA Region

Bergen

Essex

Hudson

Hunterdon

Jersey City

Middlesex

Monmouth

Morris

Newark

Ocean

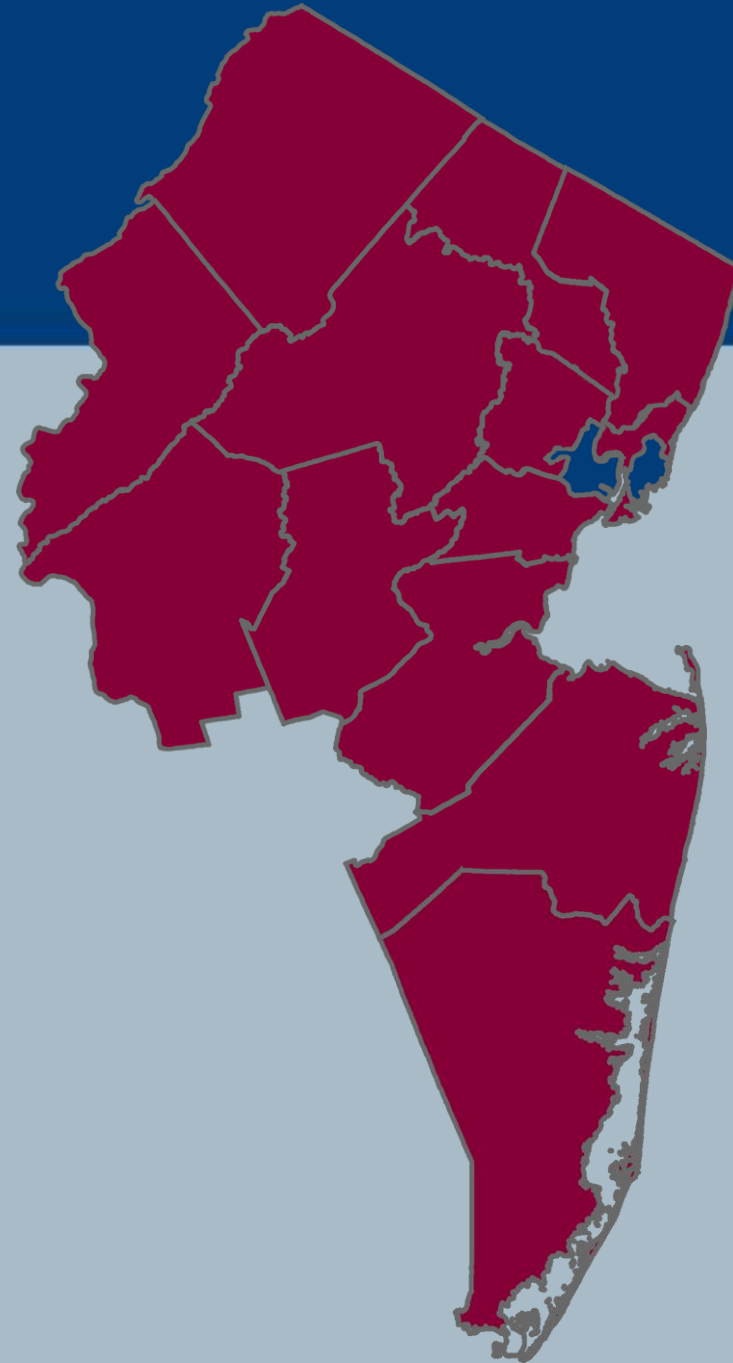
Passaic

Somerset

Sussex

Union

Warren



North Jersey Transportation Planning Authority

The Metropolitan Planning Organization for Northern New Jersey



STANDING COMMITTEES

Planning & Economic Development Committee

Project Prioritization Committee

Freight Initiatives Committee

Regional Transportation Advisory Committee



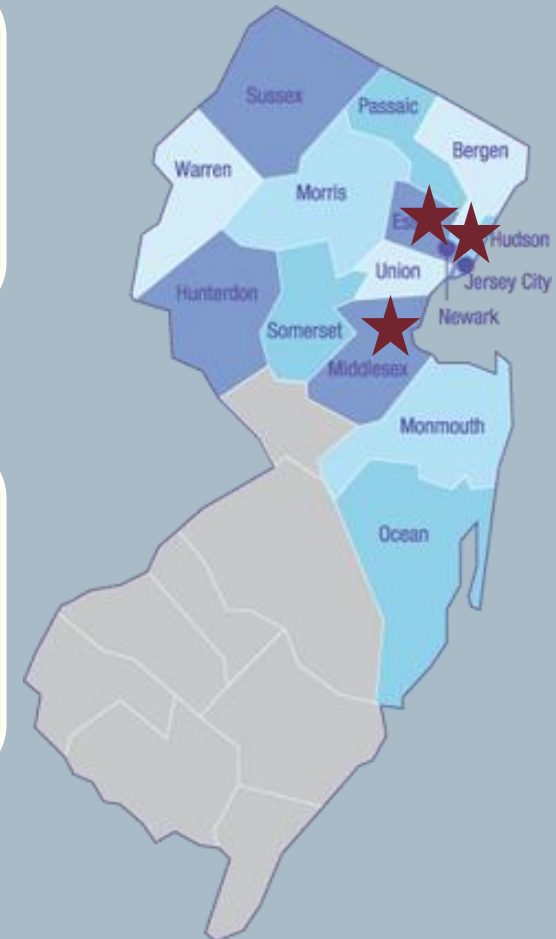
Interagency Collaboration on AFV Infrastructure Project

AFV Readiness Plans

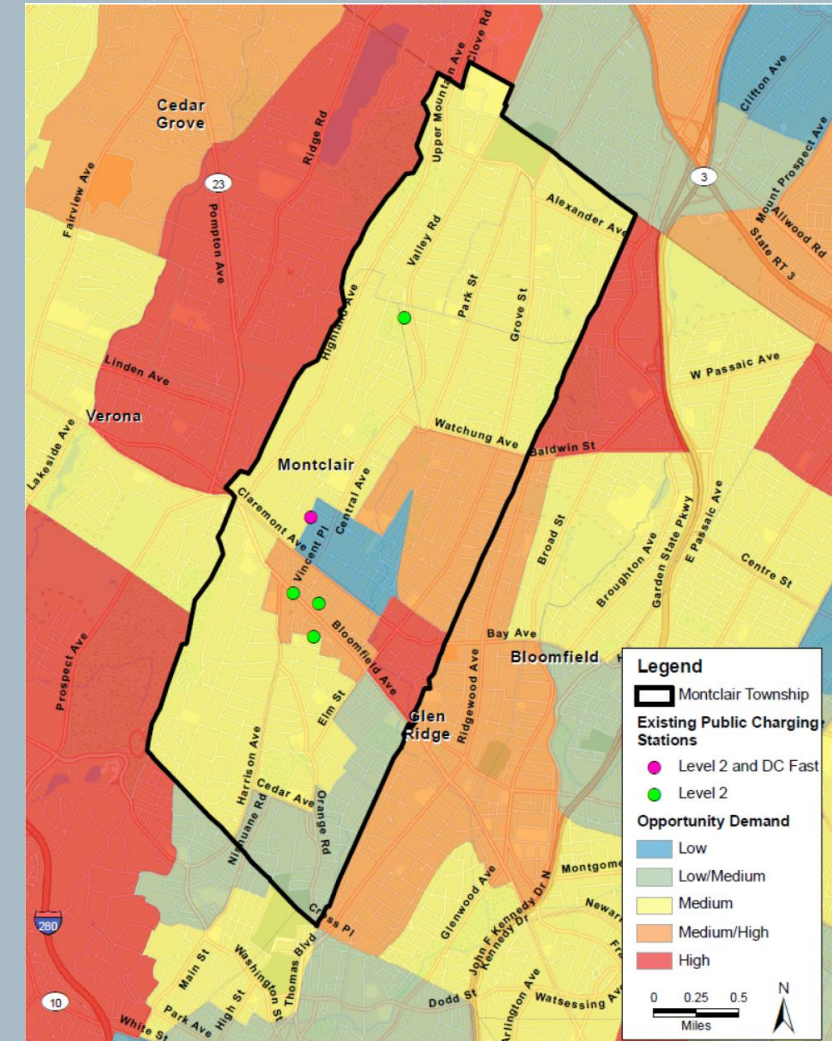
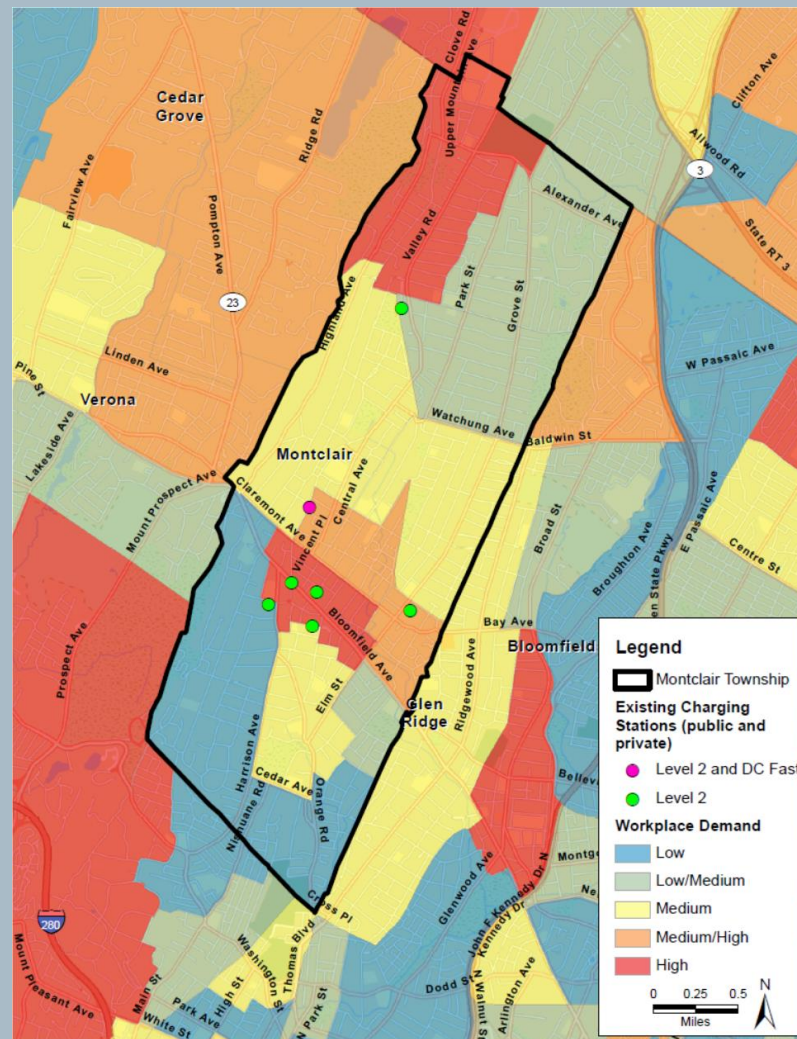
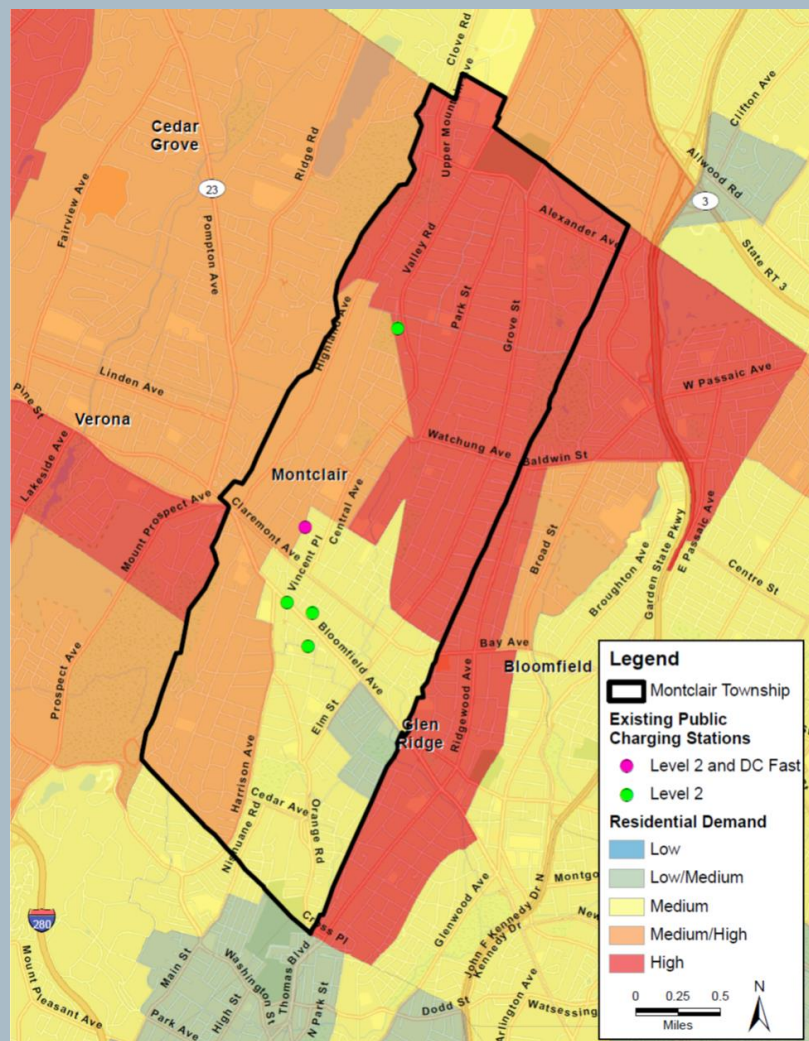
- **Three pilot communities (Montclair, Woodbridge, and Secaucus)**
- **Goal: Increase use of plug-in electric vehicles (PEVs) and natural gas vehicles (NGVs)**
- **Assess ownership demand and infrastructure needs**
- **Recommend regulatory and policy changes**

Guidebook

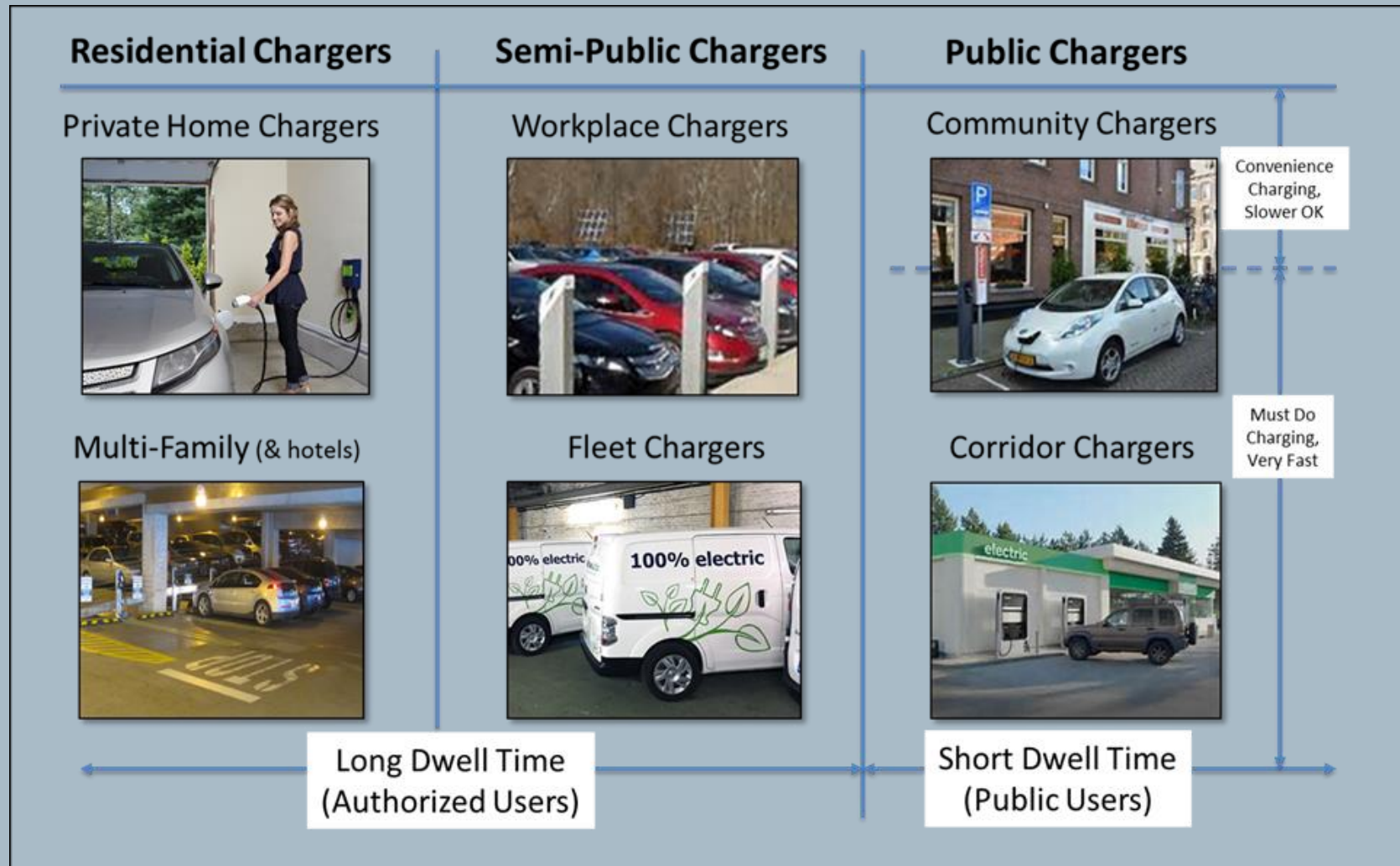
- **All municipalities in New Jersey**
- **Goal: Provide guidance for communities looking to increase use of a variety of AFVs**
- **Describe benefits and drawbacks**
- **Offer recommendations and identify resources**



Demand for Electric Vehicles at the Local Level



Understanding How Drivers Charge Affects Infrastructure Needs



Residential Charging Demands Vary Based on Housing Type and Tenure

- Single Family Homes
- Multi-family Dwellings
- Renters
- Home Owners Associations



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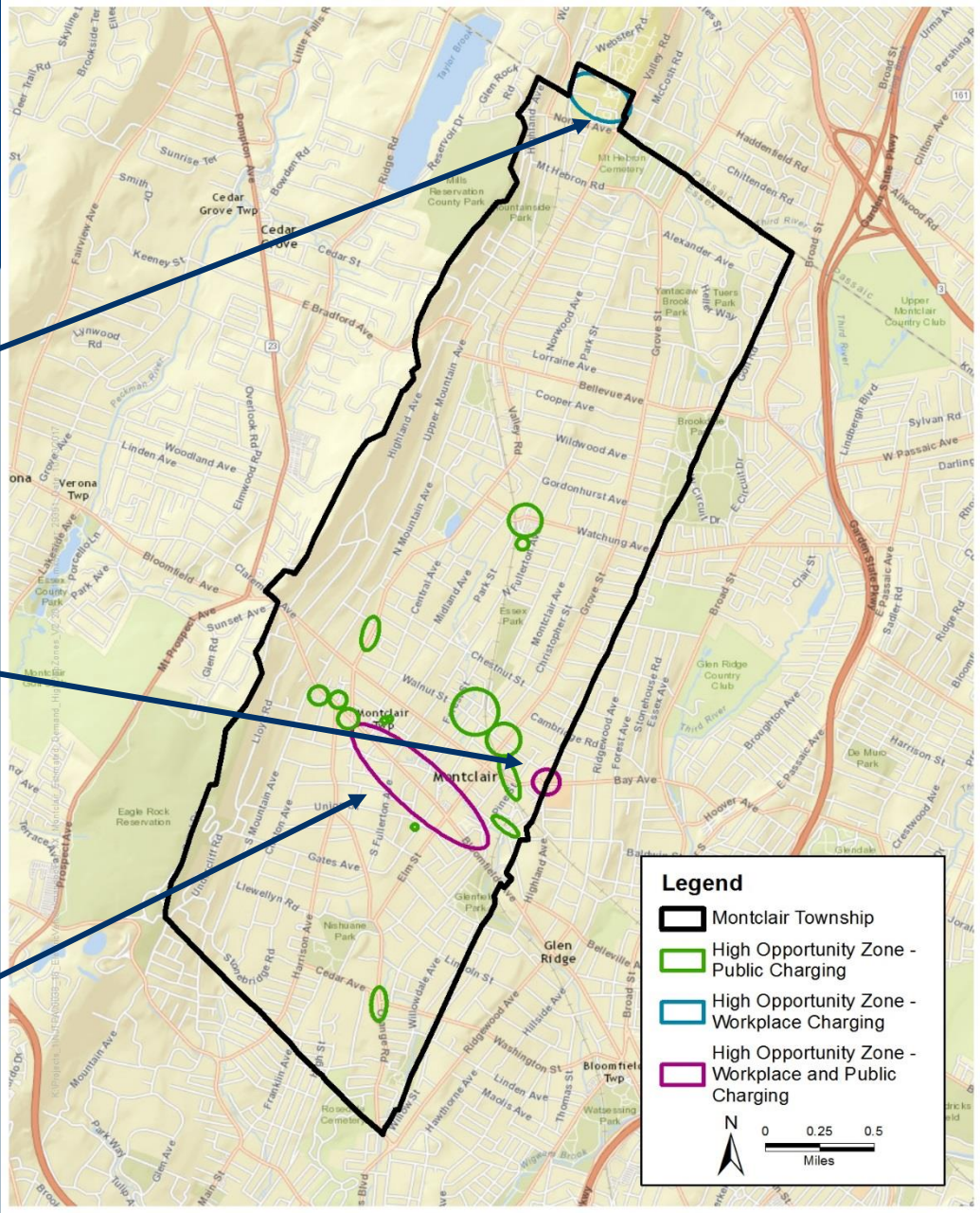
Priority Locations for Non-Residential Based Charging Infrastructure

- Overlaid Heat Maps with Land Use and Zoning data
- Identified locations with the highest demand for charging infrastructure

Montclair State University

Mountainside Hospital

Montclair Center



Readiness Planning Strategies



Readiness Planning – Recommendations for Action

- Update Zoning Ordinances and Redevelopment Plans to encourage the inclusion of AFV infrastructure
- Conduct community education and outreach to increase awareness about the benefits of AFVs
- Providing charging opportunities for residents of multi-family dwellings are a key barrier to widespread adoption of EVs

Readiness Planning – Recommendations for Action

- Conduct targeted outreach to employers, developers, and other landowners to install charging infrastructure at high-priority locations
- Identify AFV grants and other funding opportunities for infrastructure development for these high-priority locations
- Assess the existing municipal fleet, develop a fleet management plan, and explore opportunities for fleet AFVs

Resources:

<http://njtpa.org/planning/regional-studies/environment/air-quality/alternative-fuels-vehicles.aspx>

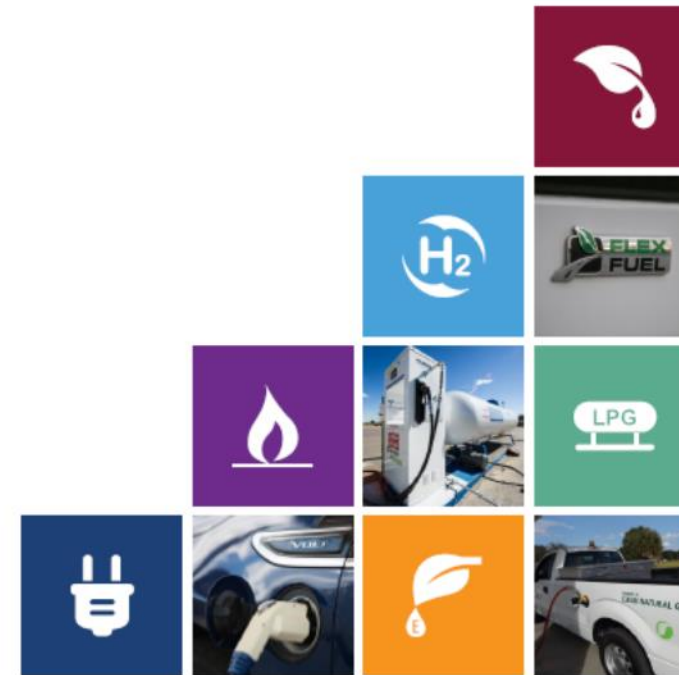


Montclair Township



Alternative Fuel Vehicle

Readiness Plan



Alternative Fuel Vehicle Readiness

A Guidebook for Municipalities

DRAFT December 2017



Thank You
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