NJTPA Climate Change Planning Activities

COG & MPO Transportation & Climate Initiative Convening

Delaware Valley Regional Planning Commission June 24, 2019





Jeff Perlman, Director, Environmental & Sustainability North Jersey Transportation Planning Authority

NJTPA Region

BergenEssexHudsonHunterdonJersey CityMiddlesexMonmouth

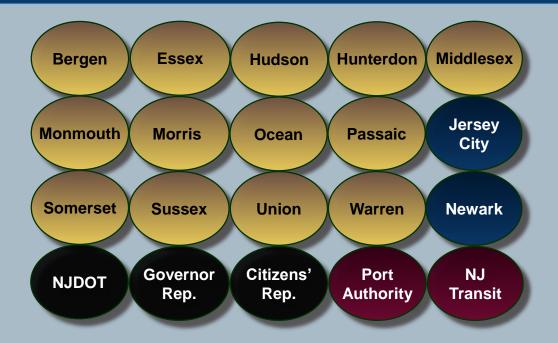
NJTPA

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



NJTPA Climate Change-Related Activities

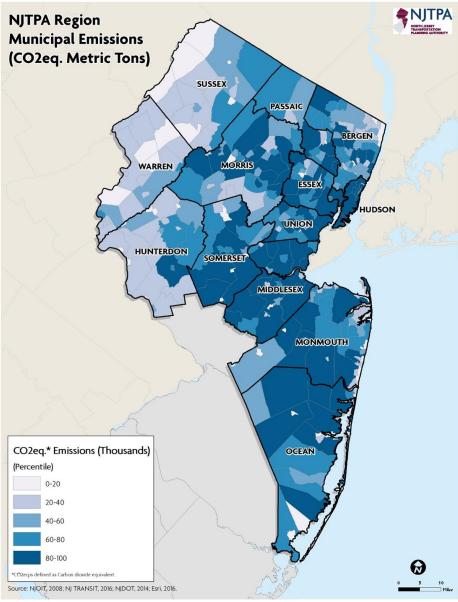
- Greenhouse Gas Emissions Inventory in the on-road transportation sector
- Alternate fuel vehicle and electric vehicle research and local technical support
- Non-SOV and Travel Demand Management funding of the New Jersey Transportation Management Associations



On-road Greenhouse Gas Emissions

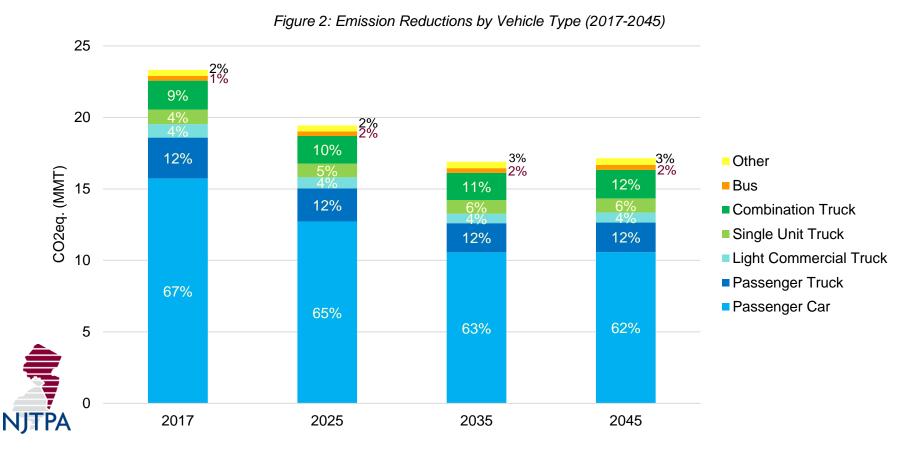
- Activity-based emissions (travel demand model)
- Used MOVES EPA model to estimate emissions
- Emissions are estimated at the TAZ level





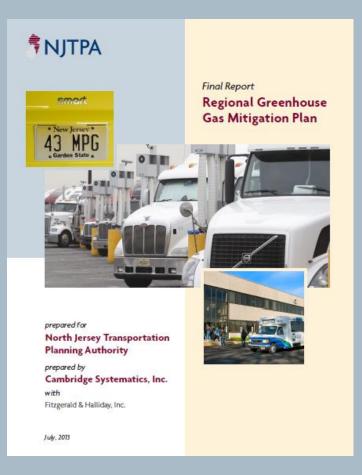
Regional Greenhouse Gas Emissions

Emissions Dropping in the NJTPA Region but not enough to meet climate goals ...



Regional Greenhouse Gas Mitigation Plan

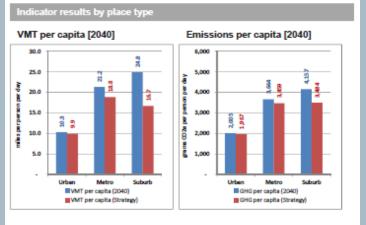
- Estimated on-road
 GHG emissions through
 2050
- Identified and evaluated strategies for reducing GHG
 - Place-type
 - Strategy bundles



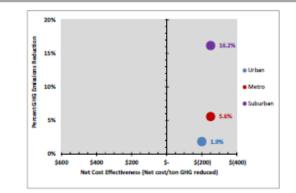


Regional Greenhouse Gas Mitigation Plan

Transit Oriented Development



Strategy cost-effectiveness by place type

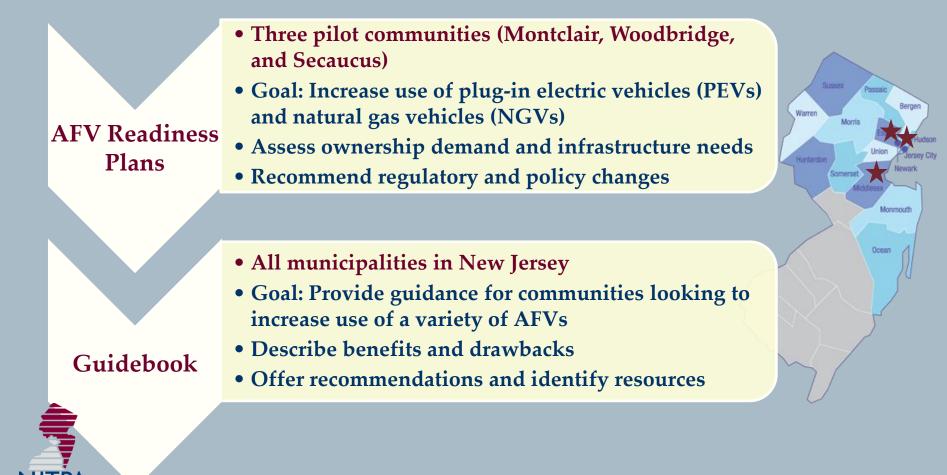


The above figure presents the strategy maximum potential GHG emissions reduction through 2040 and the net cost effectiveness of strategy implementation for an example municipality by place type. The GHG reduction represents the percent reduction from all on-road mobile source GHG emissions.

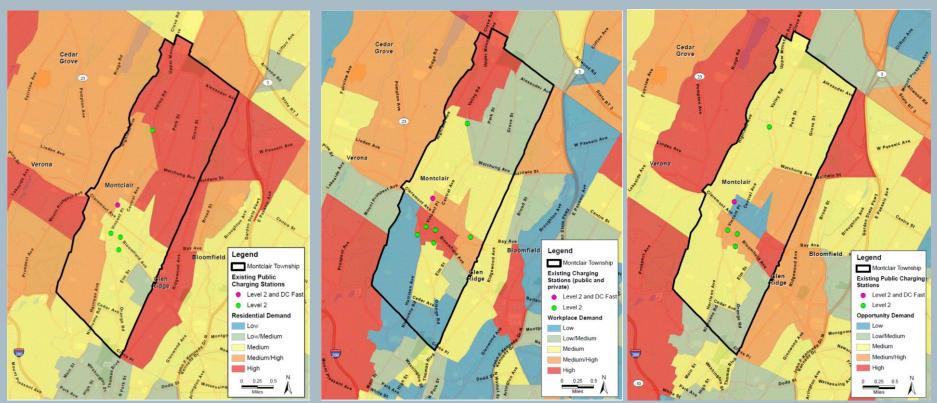
Note: The maximum potential GHG emissions reduction from TOD shows the potential impact within a transit oriented development (defined as all development within 1/2 mile of a transit station).

- Smart Growth Incentives
- Complete Streets
- Transportation Demand Management Programs
- Electric Vehicle Readiness and Implementation
- Arterial System Management and Related Strategies
- Freight-Related Strategies

Interagency Collaboration on AFV Infrastructure Project



Demand for Electric Vehicles at the Local Level





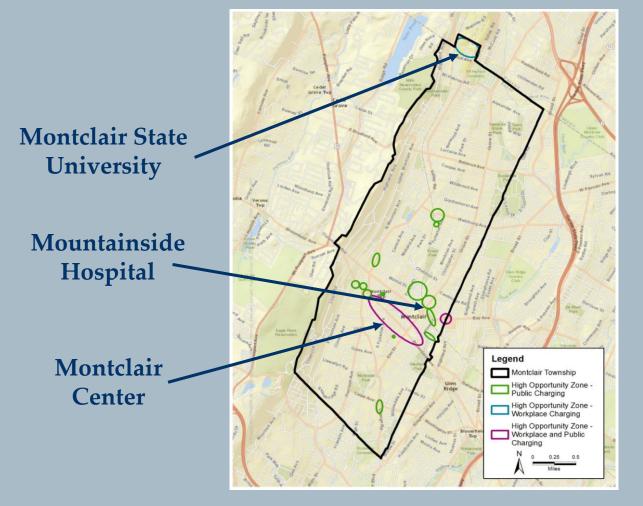
Montclair

Priority Locations for Non-Residential Charging

 Overlaid Heat Maps with Land Use and Zoning data

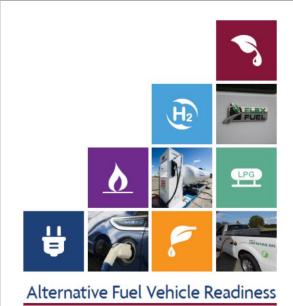
Identified

 locations with
 the highest
 demand for
 charging
 infrastructure





NJTPA Electric Vehicle Resources



A Guidebook for Municipalities

DRAFT December 2017

NJTPA



Montclair Township

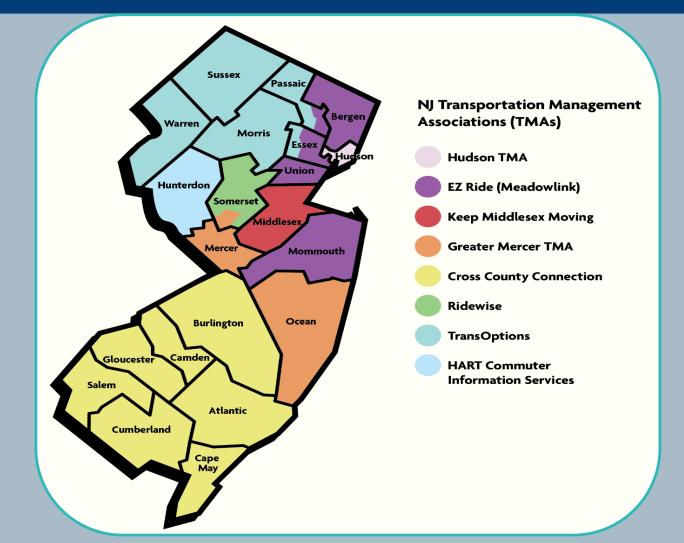


Alternative Fuel Vehicle

Readiness Plan



Transportation Management Associations





NJTPA-Funded Work Program

- Rideshare matching
- Emergency ride home
- Trip planning
- Shuttle services
- Anti-idling



• Electric and Alternative fuel vehicles



Non-motorized transportation education

How MPOs and Cogs Can Assist

- Conduct research and fund studies
- Maintain regional GHG inventories using a standard methodology
- Technical assistance to local governments around planning and policy development
- Manage pass-through programs and/or solicit for projects that may be compatible with the TCI Invest program



Thank You

Jeffrey Perlman PP, AICP Director, Environmental and Sustainability Planning

Defining the Vision. Shaping the Future.



One Newark Center, 17th Floor Newark, NJ 07102 (973) 639-8400 www.njtpa.org



follow us on



