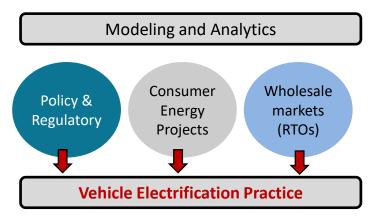
# **STATE OF THE STATE:** Electric Vehicles

# CHARGEVC NJ BETTER TRAVEL, STRONGER GRID.

Who We Are

gabel associates





#### What we will do

- Accelerate and expand EV adoption in NJ.
- Develop and promote programs and policies.



#### How we do it

- **RESEARCH** necessary to inform programs and policies.
- Diverse coalition with unified voice for ADVOCACY.

#### State-based approach

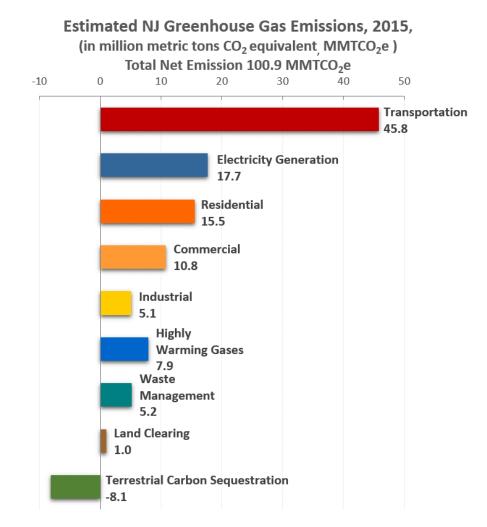
• Local market participants, for local action, based on local conditions.



## **Electric Vehicles 101**

### CHARGEVC NJ BETTER TRAVEL, STRONGER GRID.

### □ Why Electric Vehicles Matter?





### □ What Are They?

There are now over 100 LDV-PEV models available

#### Not an Electric Vehicle

#### Hybrid

- NO PLUG
- Very Small Battery



#### **Plug-In Hybrid Electric Vehicle**

- PHEV
- Electric supplements fuel
- Small to medium battery
- ~20 50 miles electric range
- Prius Prime, Chevy Volt

#### **Battery Electric Vehicle**

- BEV and ZEV
- All electric
- Large battery
- 150 350 miles range
- Tesla, Mach-E, Ford 150

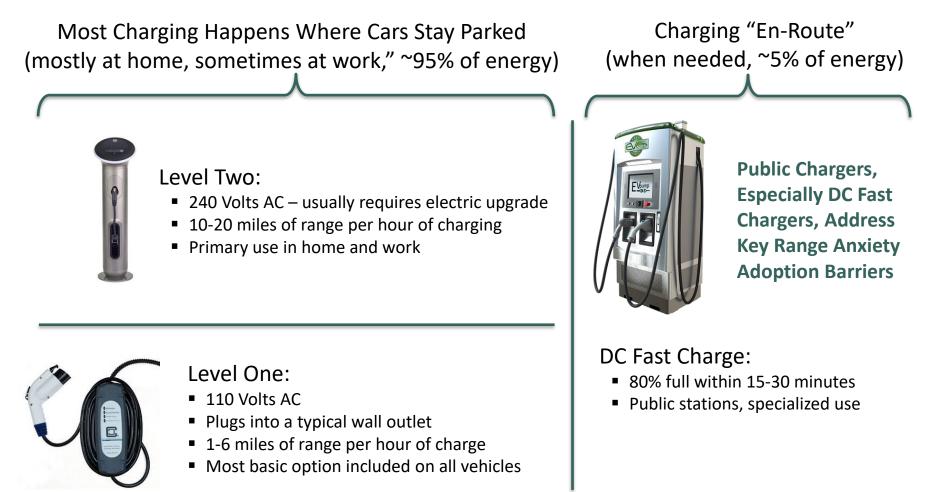
#### LDV: Light-Duty Vehicles

#### **Plug-In Electric Vehicles (PEVs)**





### How Are Electric Vehicles "Fueled"?





## **EV Market Snapshot**



### EV Law: Establishes Goals for EVs

At least 330,000 registered light-duty PEVs in the state by 2025

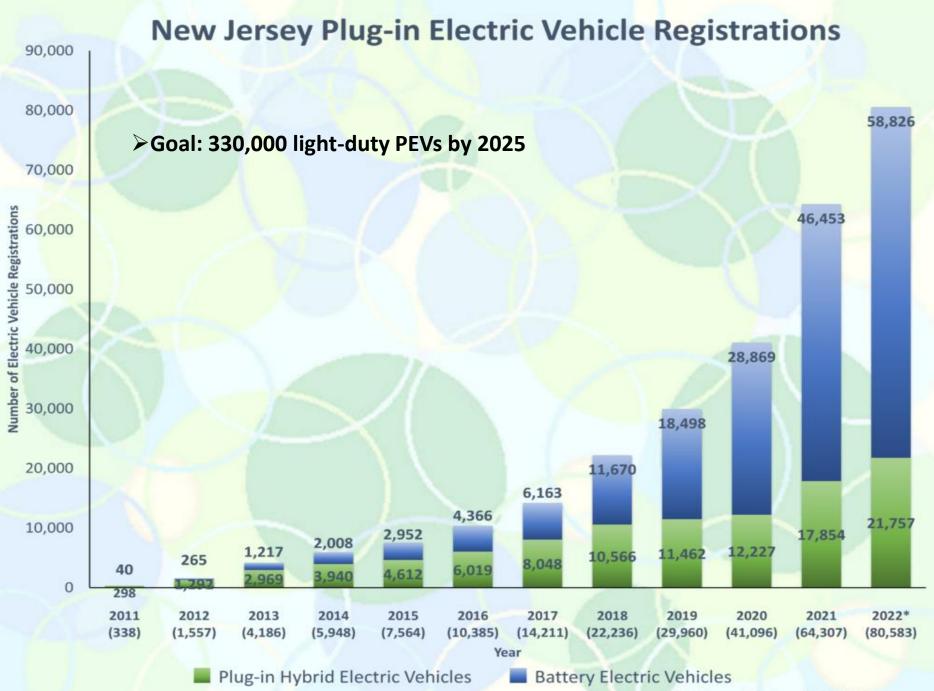
- > At least 2 million registered EVs by 2035
- > At least 85% of all LDVs sold/leased be electric by 2040

### EV Law: Establishes Goals for EV Charging Infrastructure

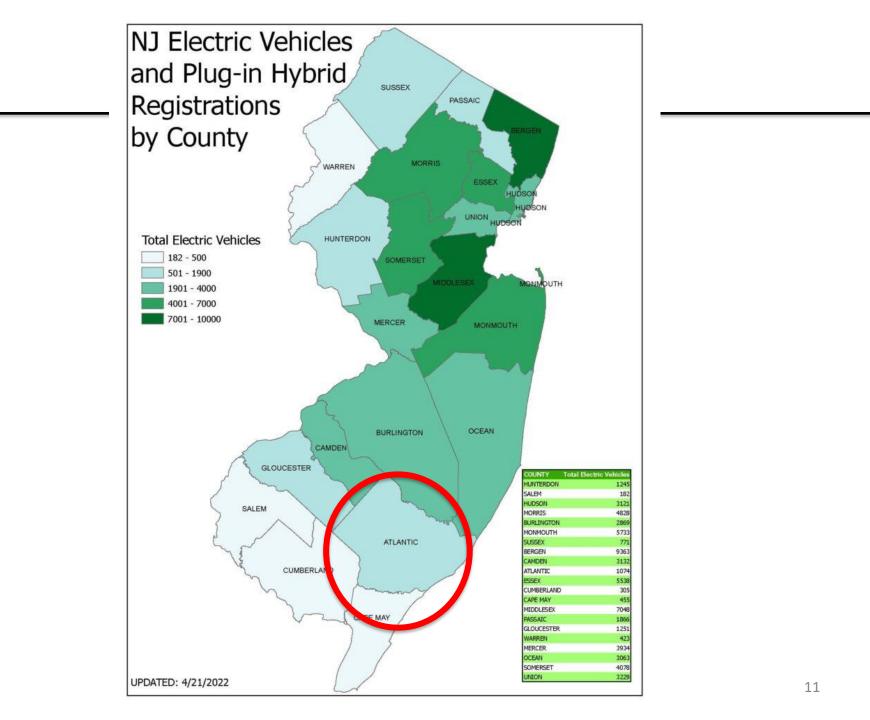
➢At least 400 publicly accessible DC Fast chargers in at least 200 locations by 2025

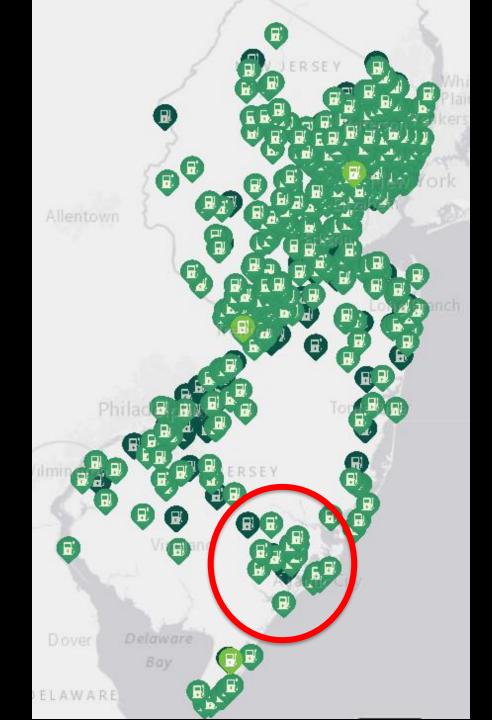
 with specific requirements including the capability of providing at least 150 kWh of power

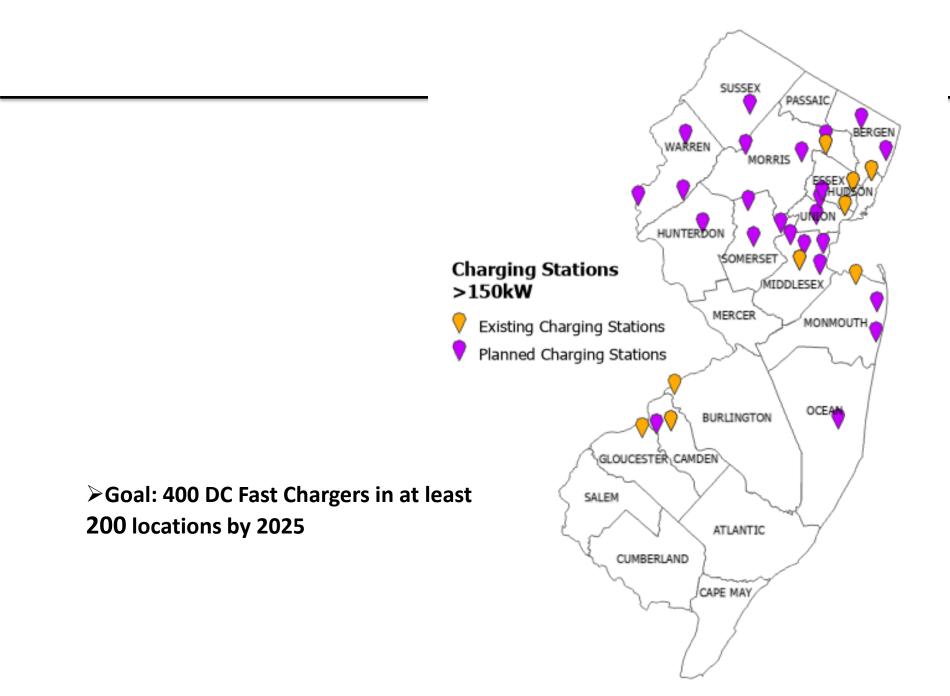
At least 1,000 publicly accessible Level 2 chargers by 2025



<sup>\* 2022</sup> data available through 06.30.2022







### **EV Market Snapshot**

- Governor Murphy Action
  - Significant goals for EV adoption and charging infrastructure
- Federal Action
  - Infrastructure Investments and Jobs Act: \$104.4M available for NJ over 5 years

National Electric Vehicle Infrastructure (NEVI) Formula Program

 Inflation Reductions Act: up to a total tax credit of \$7,500 per vehicle

with provisions for final assembly, critical mineral, battery component sourcing, MSRP, income caps, and the 200,000-vehicle cap per manufacturer.



### EV Market Snapshot

- Big commitments by global OEMS
  - General Motors, Honda, Mercedes-Benz, and Nissan have committed to being 100% electric
- Significant consumer interest
  - 71% of Americans expressed some level of interest in buying or leasing an EV.

# CHARGEVC NJ BETTER TRAVEL, STRONGER GRID.

Website: <u>www.chargevc.org</u> Email: <u>info@chargevc.org</u> Phone: 732-296-0770