



**NYSERDA**

# **New York's EV Programs**

**December 5, 2019**

# NY Clean Transportation



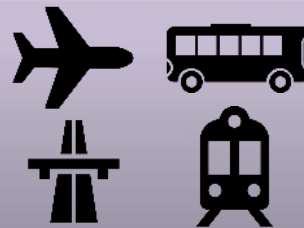
## Electric Vehicles

- >850,000 by 2025
- >46,000 today
- \$55M Drive Clean Rebate



## EV Charging Stations

- 10,000 by 2021
- >4,000 today
- \$7M Charge Ready NY Rebate



## Transportation

- Currently: ~40% of NYS GHG
- Goal: Reduce NYS GHG 40% by 2030

# Significant Progress in NYS Since 2012

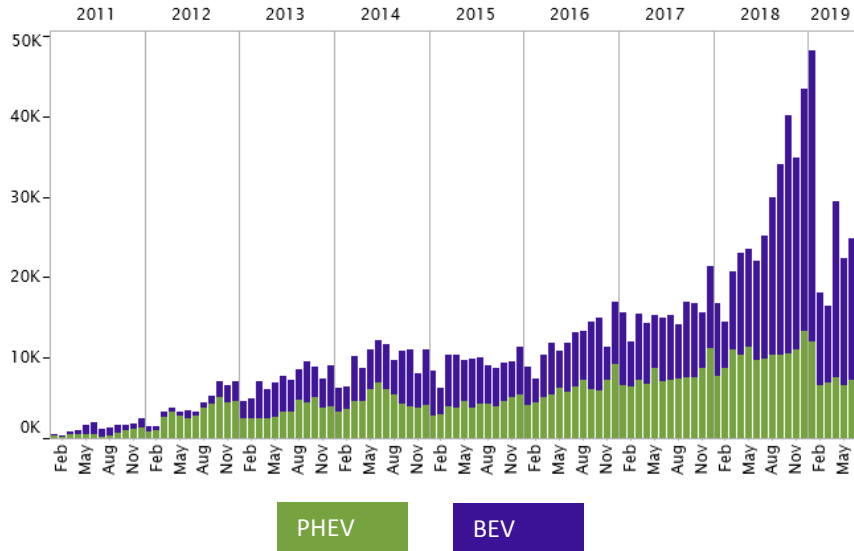
	2012	2016	2017	Today
<b>EV Registrations</b>	2,500	16,500	24,500	46,000
<b>YoY Sales Growth</b>	300% (from a very low number)	45%	70%	40%
<b>EV Rebates</b>	None	Truck	Passenger and truck	Passenger and truck
<b>Charging Ports</b>	500	1,500	2,000	4,000 (500 DCFC)
<b>EVSE Incentives</b>	None	EVSE tax credit	EVSE tax credit, municipal rebates, add'l incentives	EVSE tax credit & incentives, NYPA investment in DCFC
<b>Consumer Awareness &amp; Outreach</b>	No organized outreach	Beginning of activities	Wide-reaching activities	Wide-reaching activities

# Charge NY Goals

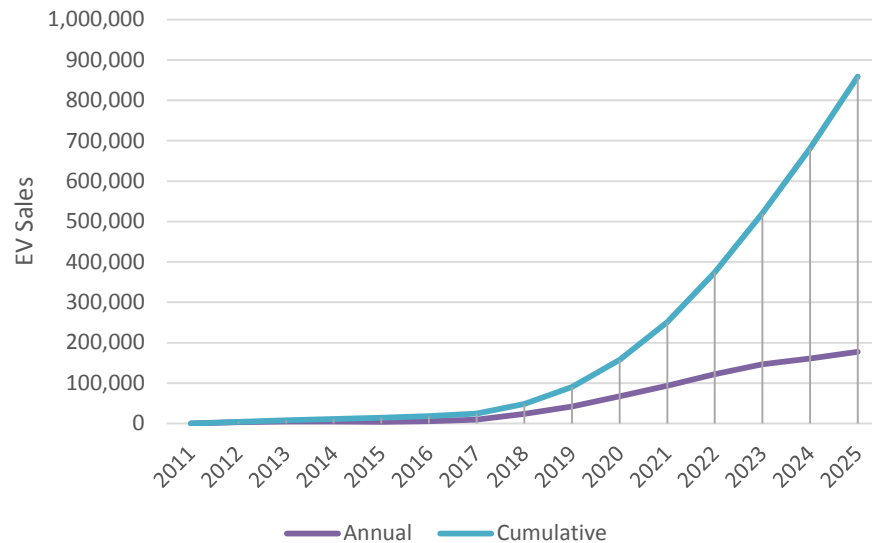
- Driven by NYS GHG goals – 40 x 30
- Up to 850,000 EVs on the road by 2025
- 10,000 charging stations by 2021
- EV-supporting travel corridors across NYS
- Increased consumer awareness and adoption
- Broader policies to reduce transportation GHG emissions

# How Big is the Challenge?

## EV Sales 2011 to Present

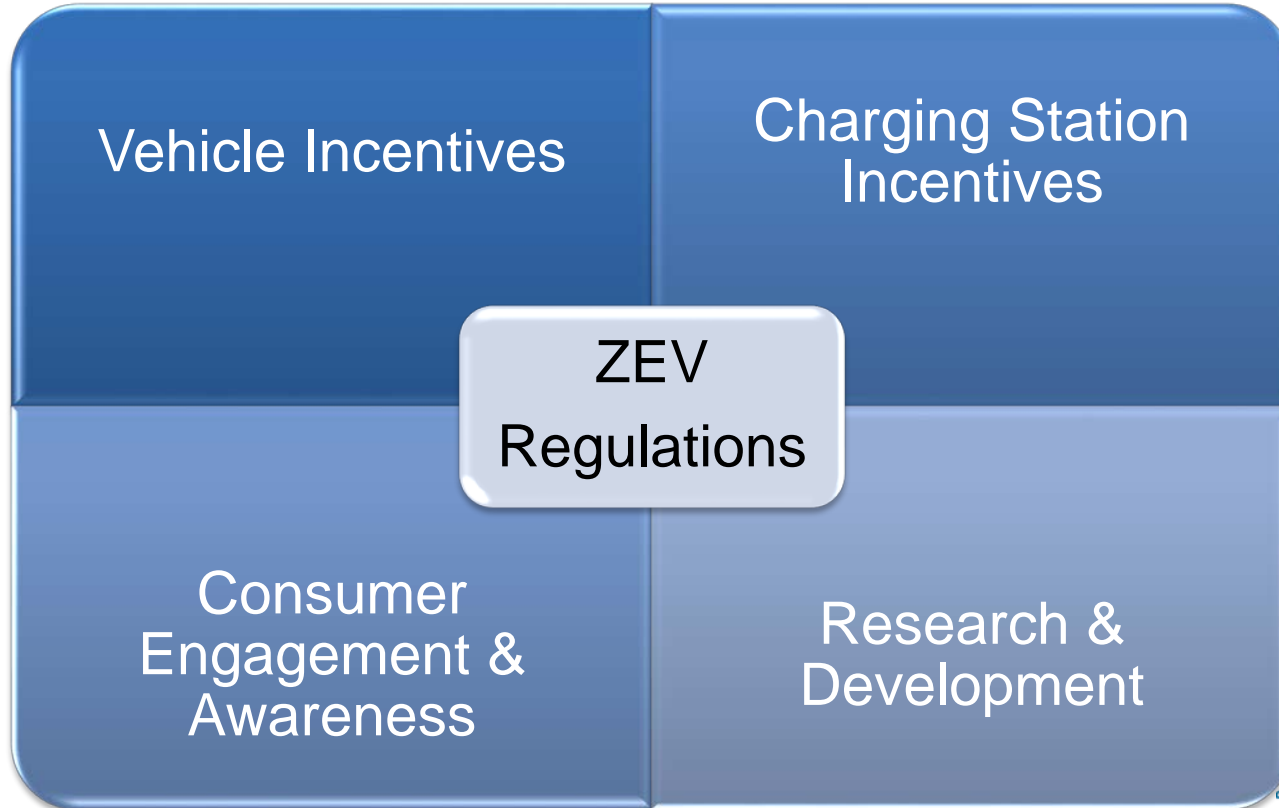


## Projected Sales to Meet ZEV Goals



Source: Auto Alliance Advanced Technology Vehicle Sales Dashboard

# Key Current Activities



# Current NYS EV Programs

- Drive Clean Rebate - \$55M total; \$26M remaining
  - Up to \$2,000 per vehicle, depending on electric range
- DEC Municipal Rebates for EVs
- Electric Truck Voucher Program (NYT-VIP)
  - Up to \$185,000 per vehicle, depending on GVWR & incremental cost
- VW settlement funds for MD/HD vehicles & more
  - Diesel Replacement funding available
- HOV Lane Access and Toll Discounts

# Current NYS Charging Station Programs

- Charge Ready NY
- 50% NYS business tax credit through 2022
  - Up to \$5,000 per charging station
- DEC Municipal Rebates for charging stations
- NYPA EVOlve NY
- NYSERDA/NYPA incentives for Recharge NY customers
- DC fast chargers on NYS Thruway (5 locations) and at NYSDOT Welcome Centers (2 locations), NYC charging hubs (5 proposed)
- State agencies targeting NY destination/tourism sites



# Charge Ready NY

NYSERDA Level 2 EVSE Incentive - \$7M total; \$2.5M remaining

- \$4,000 per port (30% to 80% savings)
- 1,150 installed
- Eligible Locations
  - Public
  - Workplace (> 15 employees)
  - MUDs (> 5 units)
- Prequalified equipment and networks (see NYSERDA website)
- Two ways to apply online
  - 180 days to install after pre-application is approved
  - 90 days to apply after installation

# Key Future Activities

- Continued vehicle incentives to drive volume, price reductions
- Increased investment in EVSE and further development of viable business plans/models
  - Future DCFC incentive program
  - PSC addressing utility EVSE ownership
- Expanded consumer & dealer engagement alongside partners
  - Future outreach campaigns & corp. recognition programs
- Better charging solutions for apartment dwellers (MUD)
- Integration of EVs into building codes (e.g. NYC Local Law 130)
- Planning for EVSE siting, especially for DCFCs
- Improvements in charging station interoperability
- Ongoing EV/EVSE R&D, demonstration projects

# Obstacles, Challenges & Opportunities

- Fleet electrification
  - Leverage residual battery value
  - New financing opportunities
- EVs in LMI communities
  - Used car financing
- Impact of DCFC
  - Minimize economic and grid impacts through software & DER (Storage, PV)

# For More Information

- Contact:
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- Visit:
  - Charge NY: <https://www.nyserda.ny.gov/ChargeNY>
  - Charge Ready NY: <https://www.nyserda.ny.gov/Charge-Ready-NY>
  - Drive Clean Rebate: <https://www.nyserda.ny.gov/Drive-Clean-Rebate>



# VW Settlement

- \$127.7 million for NYS
- DEC is lead agency
- Funds for replacing older diesel vehicles with new, cleaner vehicles
- Focus on vehicle electrification
  - Transit and school buses
  - Class 4-8 trucks
  - EV charging stations
- Other eligible projects include ferries, rail switchers, port equipment
- Plan will be submitted to trustee shortly