



# CHEAPR BOARD MEETING

Bureau of Air Management  
March 14, 2024

## BOARD AGENDA

- 3:00 PM Chair Commissioner Dykes Call to Order  
Welcome/Introductions Emma Cimino, Deputy Commissioner EQ Branch  
Approval of December 14, 2023, CHEAPR Board Meeting Minutes
- 3:15 PM CHEAPR Program Update  
Program Metrics  
Budget Update  
Public Act 22-25 Implementation Update
- 4:00 PM Board Discussion
- 4:15 PM Public Comments  
Adjourn

# ROLL CALL / PREVIOUS MINUTES

## Quorum

### Approval of the December 14, 2023, Minutes

Current Board Members	
Appointing Authority	Board Member
DEEP Commissioner or designee	DEEP Commissioner Katie Dykes
DCP Commissioner or designee	DCP Commissioner Bryan Cafferelli
Green Bank President or designee	Sara Harari
PURA chairperson or designee	Stephanie Keohane
Senate Pro Tempore: Sen. Looney	Paul Wessel
House Minority Leader: Rep. Candelora	Jody Ellant
Senate Minority Leader: Sen. Kelly	Hoffman Automotive Bradley Hoffman
House chairperson of the joint standing committee of the General Assembly	Kate Rozen

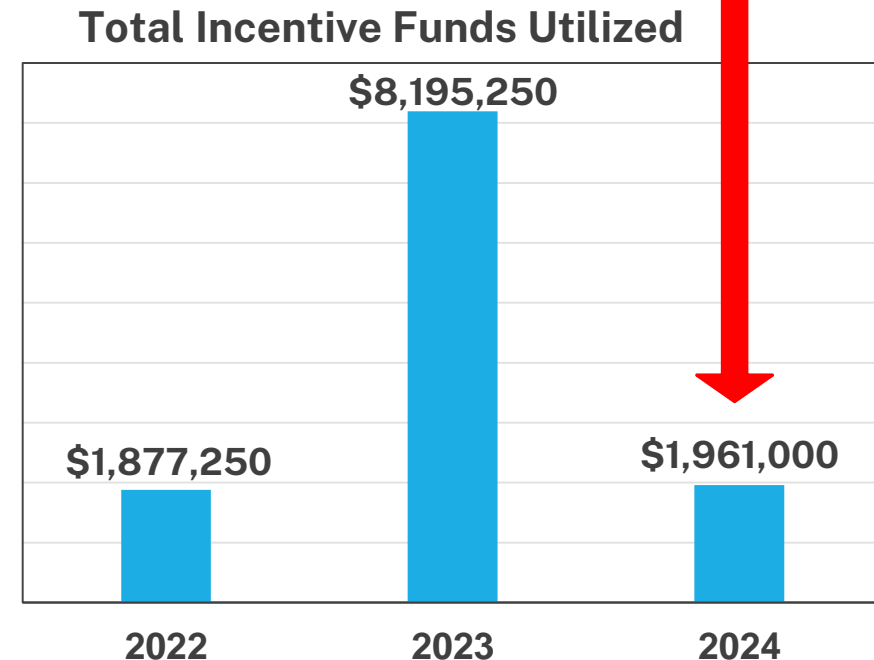
## Budget Summary

January 1, 2024, through February 27, 2024

	Rebate Funds
Incentive Payments Year-to-Date	<b>\$1,961,000</b>
Incentive Pipeline of Active Applications	\$556,025
Total Funds Utilized	\$2,517,025
Remaining 2024 Funding*	\$1,032,797

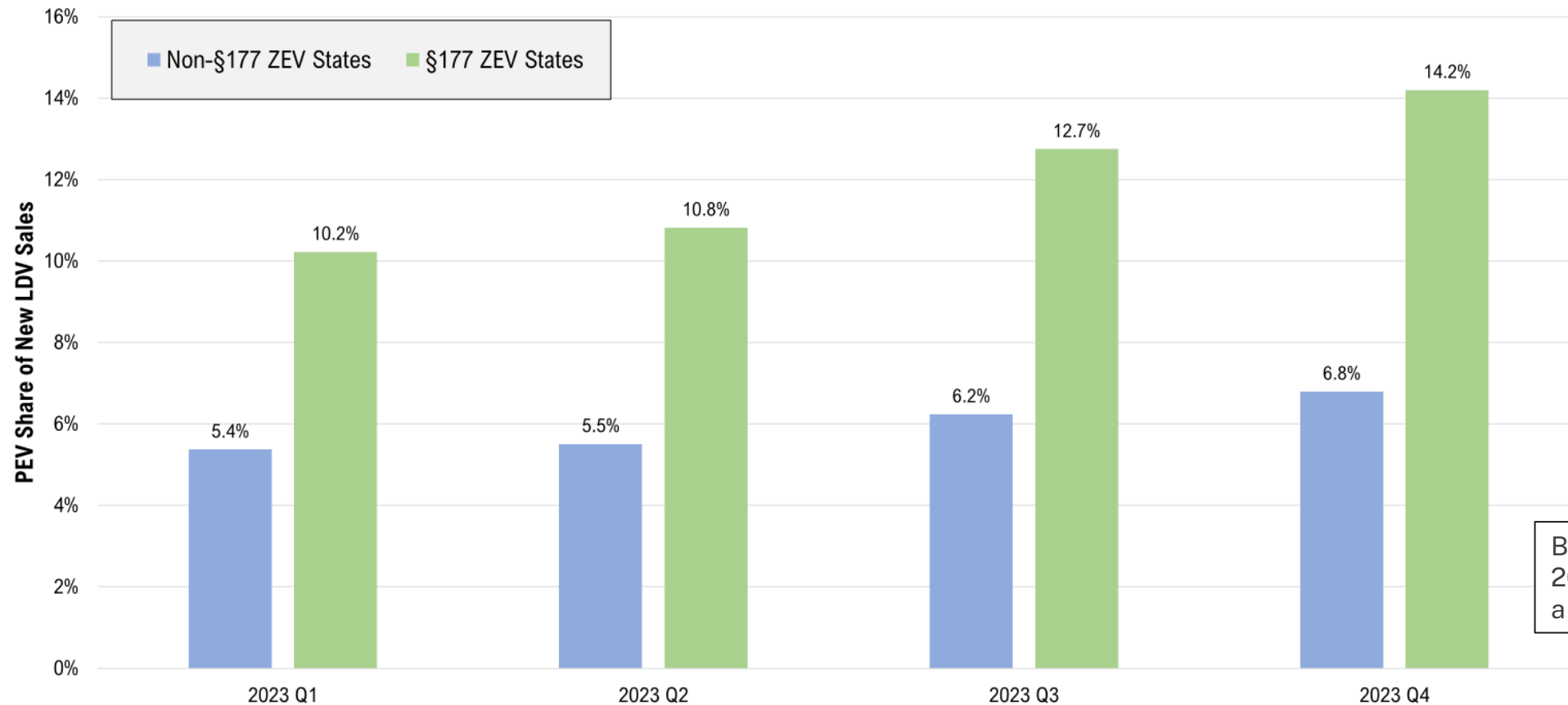
\*CSE on-hand available funding

Number of Rebates			
Incentive	2022	2023	1/1 - 2/27/2024
Standard	1,155	3,660	879
Rebate+	20	253	45
<b>Total</b>	<b>1,175</b>	<b>3,878</b>	<b>924</b>



# COMPARING EV SALES (ZEV VS. NON-ZEV)

**PEV Sales in the Last Four Quarters:  
§177 ZEV States vs. Non-ZEV States**



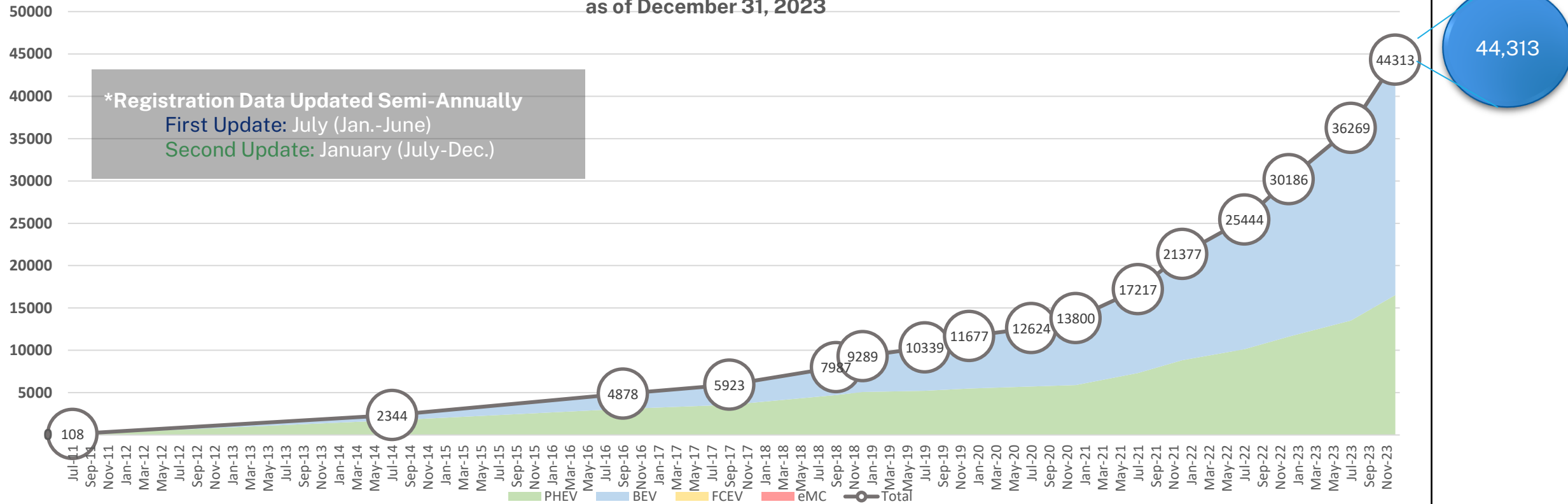
Beginning with the 2026 MY, CT will be a non §177 state

Section 177 ZEV States include: CO, CT, DC, DE, MA, MD, ME, MN, NJ, NM, NV, NY, OR, RI, VA, VT, WA  
Source: IHS Markit / Polk via Atlas Public Policy's EV Hub



# CT EV REGISTRATIONS\*

## Total Active EV Registrations in Connecticut as of December 31, 2023

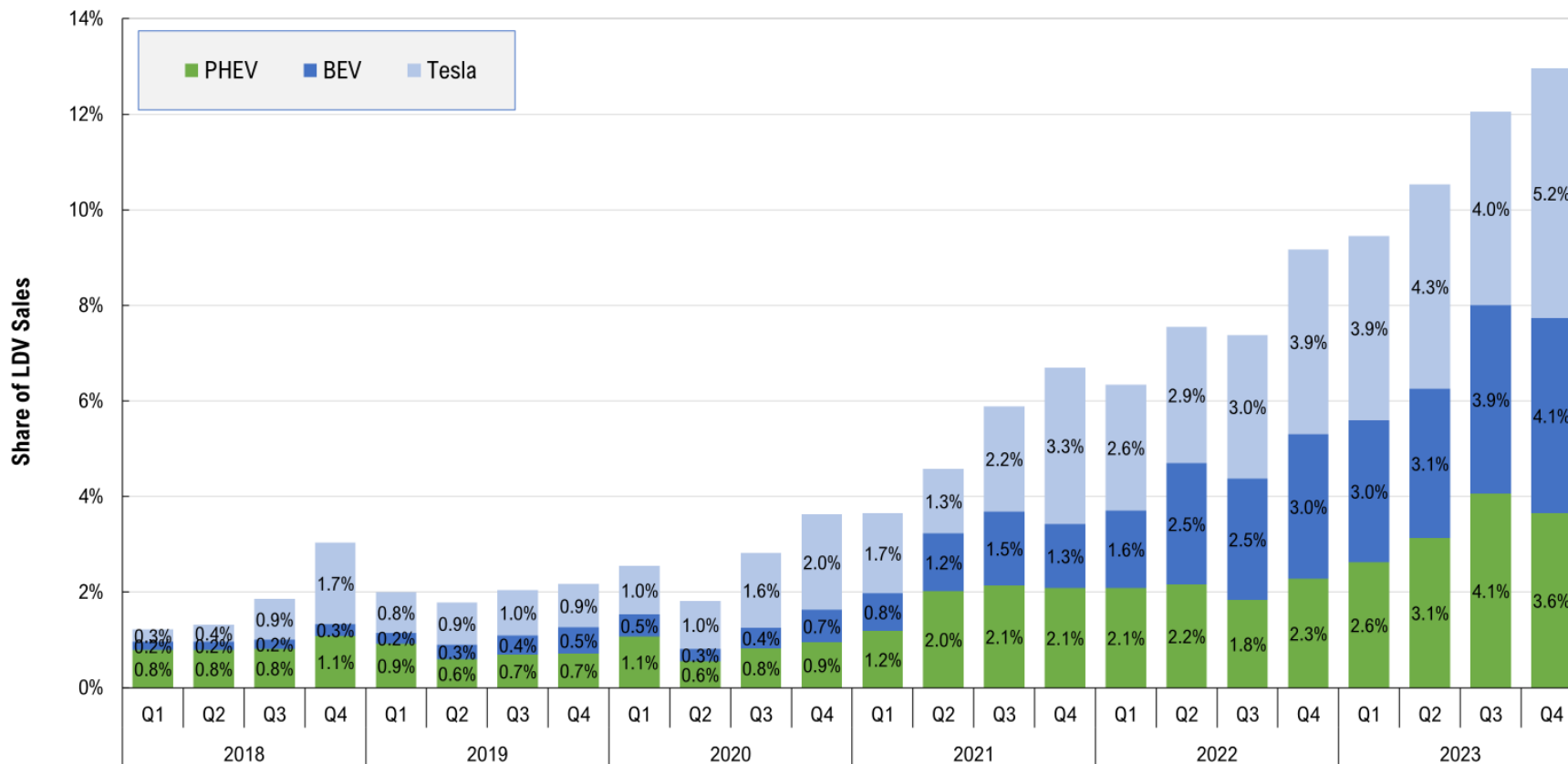


EVs Registered in CT on:

EV Type	7/1/2011	7/1/2014	9/14/2016	9/1/2017	9/24/2018	12/31/2018	7/1/2019	12/31/2019	7/1/2020	12/31/2020	7/1/2021	12/31/2021	7/1/2022	12/31/2022	7/1/2023	12/31/2023
PHEV	76	1723	3066	3549	4705	5063	5220	5480	5722	5893	7321	8827	10126	11615	13510	16517
BEV	32	621	1811	2371	3280	4208	5099	6172	6874	7880	9861	12513	15268	18509	22695	27709
FCEV	0	0	1	3	2	2	2	3	3	3	3	3	6	5	3	3
eMC	ND	ND	ND	ND	ND	16	18	22	25	24	32	34	44	57	61	84
<b>Grand Total</b>	<b>108</b>	<b>2344</b>	<b>4878</b>	<b>5923</b>	<b>7987</b>	<b>9289</b>	<b>10339</b>	<b>11677</b>	<b>12624</b>	<b>13800</b>	<b>17217</b>	<b>21377</b>	<b>25444</b>	<b>30186</b>	<b>36269</b>	<b>44313</b>

# COMPARING EV SALES (ZEV STATES)

Light-Duty PEV Sales in Selected §177 ZEV States



State	2023 Q4 PEV Share (± Q3)
CA	25.0% (-3.2%)
CO	18.7% (+0.1%)
CT	11.0% (-0.4%)
DC	20.8% (+1.0%)
DE	9.1% (-0.8%)
MA	12.8% (-0.7%)
MD	13.7% (+0.8%)
ME	7.2% (+0%)
MN	7.5% (+0.3%)
NJ	14.6% (+0.1%)
NM	5.4% (-0.7%)
NV	13.7% (-0.5%)
NY	12.1% (+2.7%)
OR	16.9% (+0%)
RI	8.9% (-0.5%)
VA	10.1% (+0.2%)
VT	13.1% (+1.5%)
WA	19.6% (-2.5%)

Selected Section 177 ZEV States include: CT, MA, MD, ME, NJ, NY, OR, RI, VT  
 Source: IHS Markit / Polk via Atlas Public Policy's EV Hub



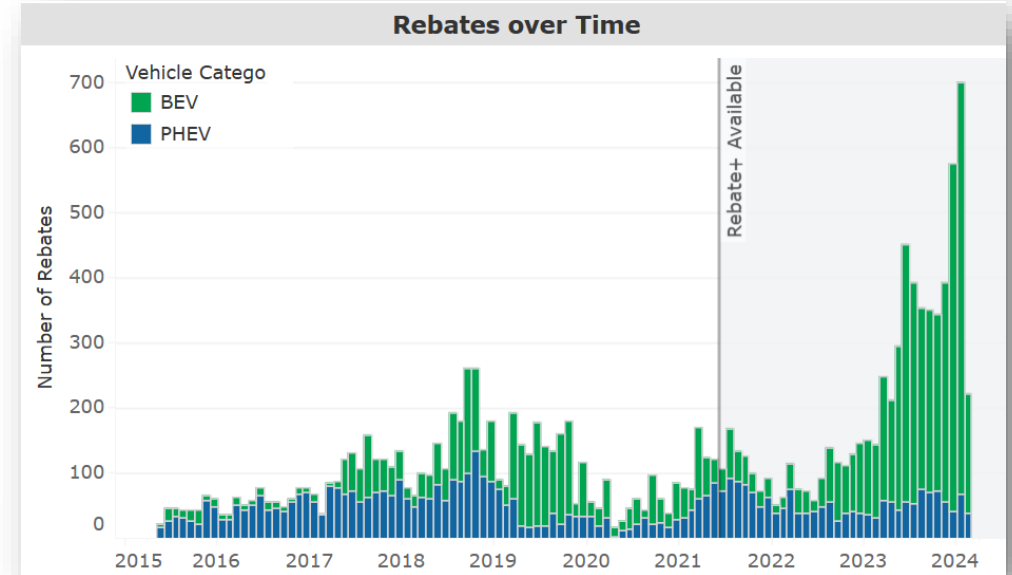
# CHEAPR STATS OVERVIEW (2015 to Present)



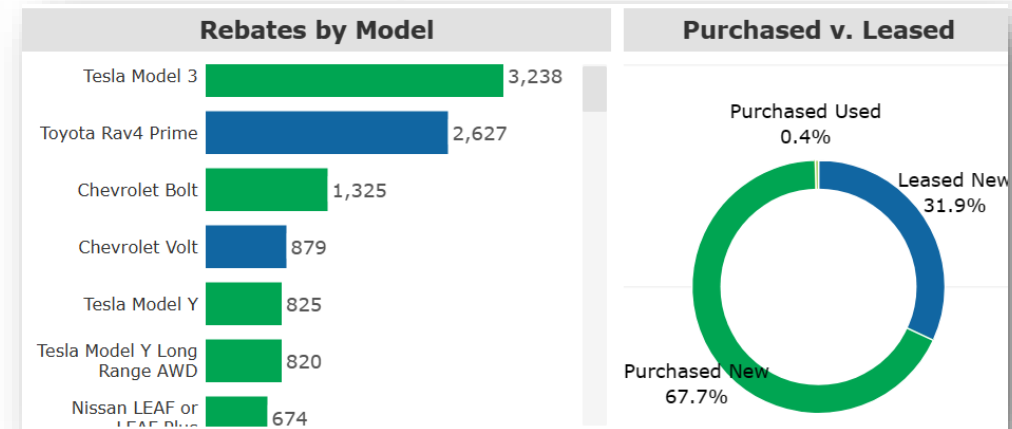
CHEAPR has issued over **\$25 million** for the purchase or lease of over **13,700 EVs...** since **2015!**

## Program Summary

## Rebates Over Time



## Top Models



### Program Summary

Select a vehicle category to filter visuals	Total Amount		Rebates		Percent		New EVs	Used EVs
	New	Used	New	Used	New	Used		
PHEV	\$6,152,000	\$7,875	5,429	7	39.4%	13.0%	13,790	54
BEV	\$19,123,750	\$141,000	8,361	47	60.6%	87.0%	13,513	277
<b>Total</b>	<b>\$25,275,750</b>	<b>\$148,875</b>	<b>13,790</b>	<b>54</b>	<b>100.0%</b>	<b>100.0%</b>	<b>Rebate+ New</b>	<b>Rebate+ Used</b>

Data last updated: 2/28/2024 (most recent months partial)

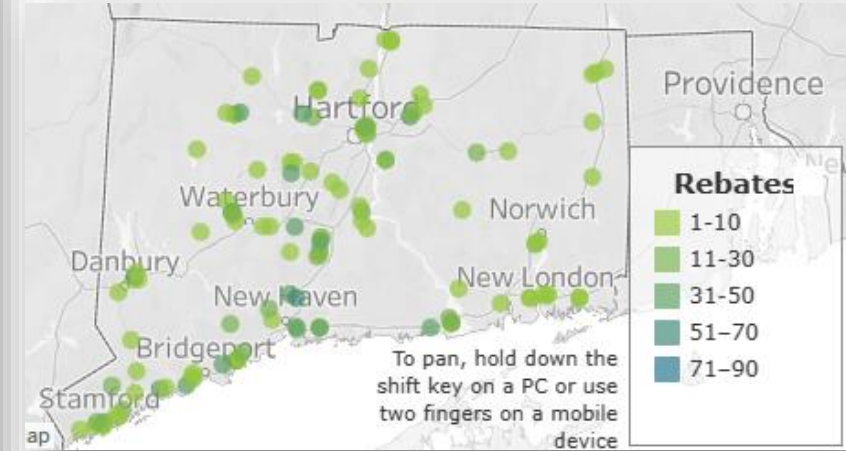


# CHEAPR STATS (2023: JAN 1 – DEC 31)

Available on CHEAPR Stats Page



## Rebated Dealerships by Location



## Top Rebated Dealerships

### Top 20 Rebate CT Dealerships

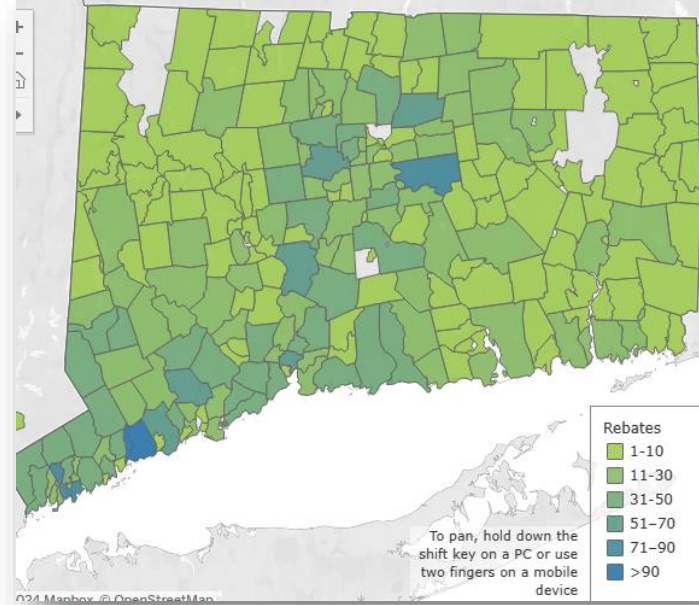
Lynch Toyota	73
Danbury Hyundai	57
Executive Volkswagen of North Haven	54
Westbrook Toyota	46
Toyota of Wallingford	44
Curran Volkswagen	41
Brandfon Hyundai	39
Executive Kia	39
Toyota of Stamford	39
Crowley Buick Oldsmobile LLC	38
Hoffman Toyota	37
New Country Toyota of Westport	37
Maritime Chevrolet	36
Shaker Family Hyundai	36
Hamden Chevrolet	34
Middletown Toyota	34
Premier KIA	34
Northwest Hills Chevrolet Buick GM..	32
Richard Chevrolet, Inc.	31
A-1 Toyota	30

### What about Tesla?

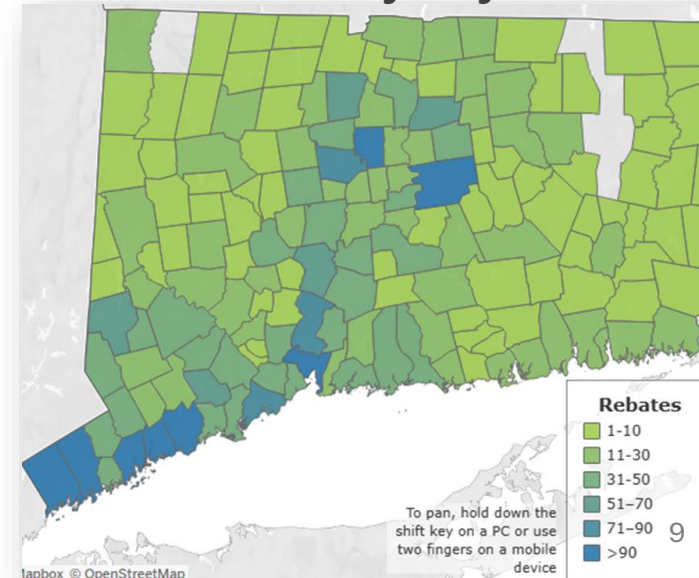
Tesla's dealership address is standardized as Palo Alto, CA and therefore is not included in the map above nor in the 'Top 20 Rebated CT Dealerships' list to the left. Tesla dealerships account for:

**Tesla Rebates: 1,844**

## Rebates by Zip



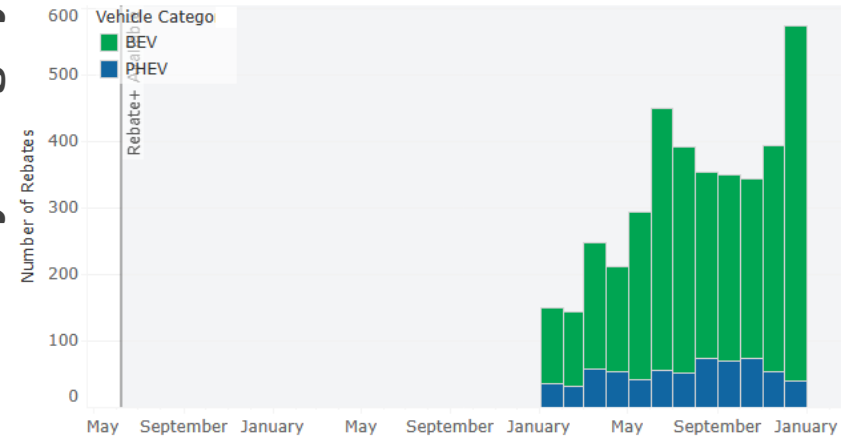
## Rebates by City



## Program Summary

Select a vehicle category to filter visuals	Total Amount		Rebates		Percent		New EVs	Used EVs
	New	Used	New	Used	New	Used		
PHEV	\$504,000	\$7,875	642	7	16.6%	20.0%	3,878	35
BEV	\$7,691,250	\$84,000	3,236	28	83.4%	80.0%	3,660	218
<b>Total</b>	<b>\$8,195,250</b>	<b>\$91,875</b>	<b>3,878</b>	<b>35</b>	<b>100.0%</b>	<b>100.0%</b>	<b>35</b>	

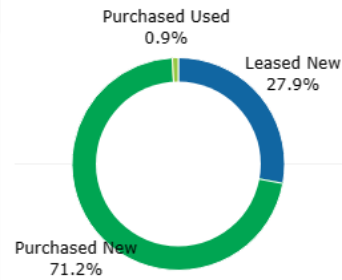
## Rebates over Time



## Rebates by Model

Tesla Model 3	1,106
Tesla Model Y	738
Toyota Rav4 Prime	414
Chevrolet Bolt	351
Tesla Model Y Long Range AWD	329
Volkswagen ID.4	224

## Purchased v. Leased



2023 Overview

EVs by Category

Most Popular EVs

# ELIGIBLE USED VEHICLE LIST













List of eligible used EVs is being updated.

## Eligibility criteria

- Must be used (pre-owned)
- ≤ \$50K MSRP when new
- Current year + 3 previous Mys
- Only available to Rebate+ qualifying individuals

## So far identified

- 20 eligible OEMs
- 221 eligible Model/Trims

Eligible Used Vehicles		
If you believe a vehicle should be included on this list, please <a href="#">Contact Us</a> and let us know. If you cannot view this list, please try a different browser or download the <a href="#">used eligible vehicle list</a> .		
<b>Chevrolet Bolt</b> 2017-2021  EV Range <b>238 Miles</b> CHEAPR Rebate+ Used: \$3,000 <b>Total Savings: \$3,000</b>	<b>Chevrolet Volt</b> 2015-2019  EV Range / Total Range <b>53 Miles / 420 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>	<b>Chrysler Pacifica PHEV</b> 2017-2021  EV Range / Total Range <b>33 Miles / 570 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>
<b>Fiat 500e</b> 2019-2019  EV Range <b>84 Miles</b> CHEAPR Rebate+ Used: \$3,000 <b>Total Savings: \$3,000</b>	<b>Ford Escape PHEV</b> 2020  EV Range / Total Range <b>37 Miles / 530 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>	<b>Ford Fusion Energi</b> 2015-2020  EV Range / Total Range <b>26 Miles / 610 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>
<b>Honda Clarity Fuel Cell</b> 2017-2021  EV Range <b>366 Miles</b> CHEAPR Rebate+ Used: \$7,500 <b>Total Savings: \$7,500</b>	<b>Honda Clarity PHEV</b> 2018-2021  EV Range / Total Range <b>47 Miles / 340 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>	<b>Hyundai Ioniq Electric</b> 2017-2021  EV Range <b>124 Miles</b> CHEAPR Rebate+ Used: \$3,000 <b>Total Savings: \$3,000</b>
<b>Hyundai Ioniq PHEV</b> 2018-2021  EV Range / Total Range <b>29 Miles / 630 Miles</b> CHEAPR Rebate+ Used: \$1,125 <b>Total Savings: \$1,125</b>	<b>Hyundai Kona</b> 2019-2021  EV Range <b>258 Miles</b> CHEAPR Rebate+ Used: \$3,000 <b>Total Savings: \$3,000</b>	<b>Hyundai Nexo</b> 2019-2021  EV Range <b>354 Miles</b> CHEAPR Rebate+ Used: \$7,500 <b>Total Savings: \$7,500</b>

## Challenges to update process

- New MY Vehicle Additions
- MSRP Price Fluctuations are largely unreported
- Model/Trim name changes
- Consumer protection concerns (health of battery)

## Additional Considerations

- Previous program design changes
- No single vehicle info clearinghouse
  - (MSRP, MY/Trim, VIN /VIN Decoder)

A stylized, colorful landscape illustration. The top right corner features a bright yellow sun. Below it is a large green hill with a dark blue outline. The bottom of the image shows a light blue area representing water, also with a dark blue wavy outline. The text "Fleet Update" is centered on the green hill.

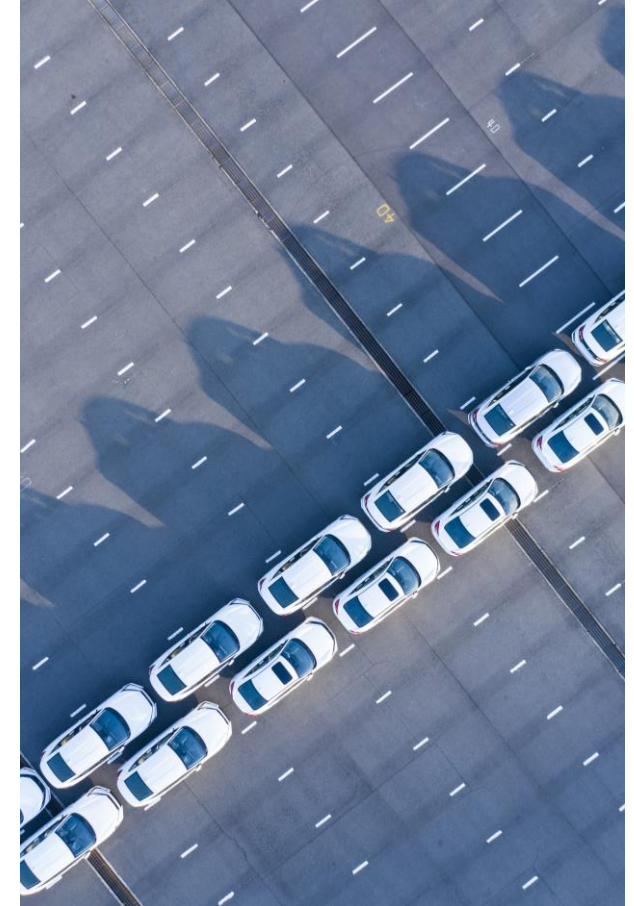
**Fleet Update**

# CHEAPR FLEETS **Coming Soon!**



## CHEAPR expansion potentially to include:

- Businesses, Municipalities, Non-Profits, and Tribal Entities.
- Pre-cert with Post-Purchase Rebate
  - must apply to DEEP and be approved prior to purchase or lease an eligible EV
- Fleets prioritization criteria under consideration:
  - A home base within an Environmental Justice Community or Distressed Municipality;
  - A certified annual Vehicle Miles Traveled (VMT) of the applicant fleet above 20,000 miles per vehicle per year; or
  - Replacement of a vehicle older than 10 years.
  - DEEP AIR is working with the DEEP Environmental Justice Group through Connecticut Equity and Environmental Justice Council (CEEJAC) to highlight this opportunity
- Other Details
  - Only New EVs will be eligible
  - Must be on CHEAPR eligible vehicle list ( $\leq$  \$50K MSRP)
  - Standard Rebate: \$2,250 (BEVs) | \$750 (PHEVs)
  - Non-government entities must provide Certificate of Legal Existence (Good Standing)
  - Fleets eligible for up to 10 rebate per year and 20 total



# FLEETS PROPOSED NEXT STEPS



# WHAT DATA WILL APPLICANTS NEED?



## Fleets Can Start Getting Ready

### Will they be Eligible?

- Can they prove they are high VMT fleets through vehicle records or fuel logs?
- Is their home base or primary area of operation in an EJ neighborhood?
  - DEEP will prioritize EJ fleets
- Are they potentially replacing older vehicles?

### Information DEEP Will Be Looking For:

- Vehicle Depot/ Home Address
- Business/ Town Name
- Primary Contact
- Primary Areas of Vehicle Operation
- Number of Vehicles looking to purchase, how many will be direct replacements?
- Vehicle VMT, supported by fuel logs or other data
- Charging Available
- Certificate of Good Standing (can take weeks to obtain from DRS) [Link](#)



**Connecticut  
Electric Bicycle**  
INCENTIVE PROGRAM

## **eBike Incentive Program Update**

# eBike Emissions Reductions

**DEEP has been exploring methodologies for determining eBike emission reductions**

**According to a 2019 study at the University of British Columbia on eBike impacts:**

- Each eBike adoption is expected to result in approximately 460 kg CO<sub>2</sub> net emissions reduction per year due to replacement of car VMT
  - 422 redeemed vouchers x 460 kg CO<sub>2</sub> = **194,120 kg reduced in net CO<sub>2</sub> from first round of program**
- On average, each eBike adoption will reduce around 2,000 vehicle-kilometers travelled per year (or 1,242.7 VMT)
  - 1,242.7 VMT x 422 vouchers redeemed = **524,419.4 VMT reduction from first round**
- A typical passenger vehicle emits about 4,600 kg of CO<sub>2</sub> per year according to the EPA
  - The first round was equivalent to **removing ~42 cars**  $\left[ \frac{194,120 \text{ kg CO}_2}{4,600 \text{ kg CO}_2 \text{ per car}} = 42.2 \text{ cars} \right]$

DEEP is in the process of working with CT DOT to determine more precise emissions reductions results based on the outcomes of the first round of the eBike Incentive Program using CT specific inputs regarding average trip lengths



# eBike Program - draft framework for 2024



## **Open Application Period**

- 10-day open application period
- Allows applicants who need it to seek assistance in filing an application

## **Lottery Based Selection Process**

- Solves the First Come, First Served Problem

## **Prioritized Eligibilities**

- Categorical
- < 300% of the FPL

## **Still working on the Budget with Carry Over from unclaimed vouchers**

## **Reviewing Incentive Levels**

- On average to purchase a median bike in 2023 voucher recipients had to pay \$250 out of pocket.



**CHEAPR EV + eBike Incentive Program  
Annual Report**

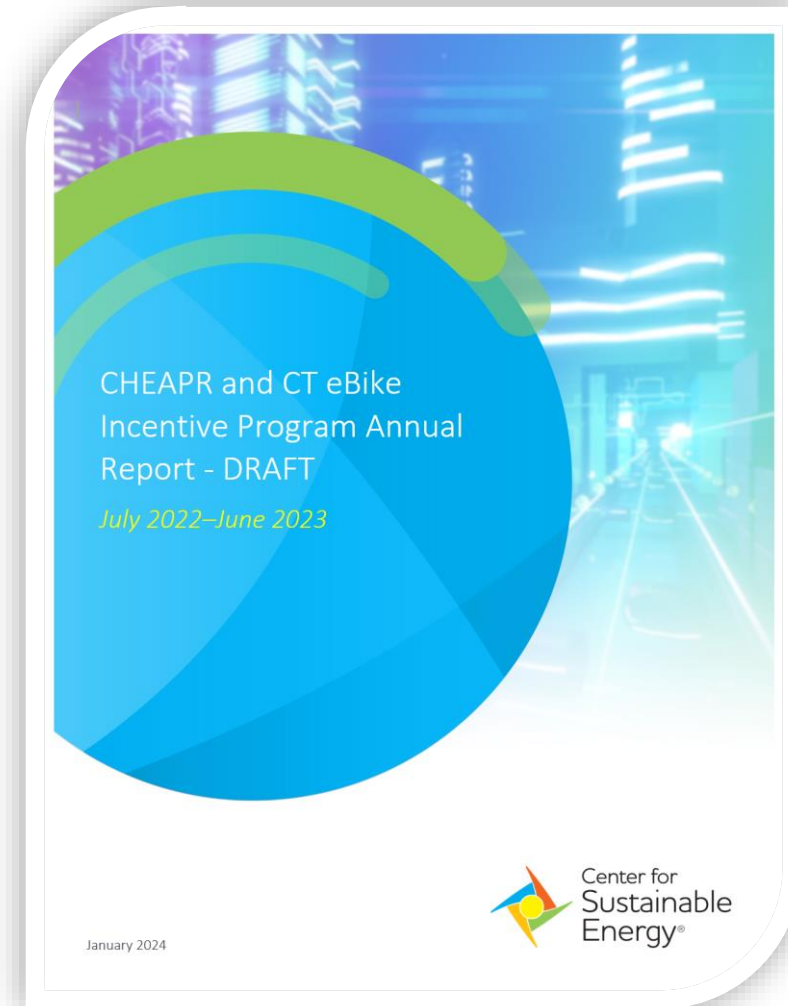
# ANNUAL REPORT

- CHEAPR EV + eBike Annual Report covering the **July 2022 to June 2023** reporting period has been finalized and will be available on the CHEAPR Board webpage.
- Reporting period extended to include eBike Incentive Program analysis – and survey results!

## Takeaways from report:

1. **Rebate+** applications are **increasing**
2. **Overall** applications are also **increasing**
3. Reporting period ends **just** before the 2023 continuing June - February surge in applications and does not capture that upswing
  - **Surge in applications likely due to Tesla Model 3 and Y increased sales**  
(AWD and Long-Range models lowered MSRPs below \$50K)

**Note:** eBike Annual Report discussed at December 14th meeting and is posted on Board page.



# LEGISLATIVE ANNUAL REPORT

**22a-202(f) - Requires DEEP to issue a report to the joint standing committees of the legislature having cognizance over environment and transportation regarding the status and effectiveness of the program by June 20, 2024, and annually thereafter**

**DEEP is preparing a report:**

**Program Participation**

**Dollars per ton NOx reduced**

**Effects of the CHEAPR in EJ and overburdened neighborhoods**

# CHEAPR BOARD MEETING SCHEDULE

## 2024 CHEAPR Board Meetings

- **March 14, 2024**
- **June 6, 2024** (Note, this is the first Thursday of the month)
- **September 12, 2024**
- **December 12, 2024**

# BOARD QUESTIONS AND DISCUSSION

Open for Board Member questions and discussion.

# PUBLIC COMMENTS

Please raise your hand in the chat.