



THE STATE OF ELECTRIC VEHICLES ON LONG ISLAND

February 2025

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 DriveElectricLongIsland.org



Acknowledgements

Drive Electric Long Island is a coalition of stakeholders dedicated to encouraging and accelerating the adoption of electric vehicle usage and charging infrastructure on Long Island through advocacy, education and outreach efforts to local municipalities, companies, residents and industry stakeholders.

Led by the U.S. Green Building Council – Long Island Chapter (USGBC-LI), the coalition includes a broad range of electric vehicle (EV) stakeholders on Long Island including PSEG Long Island, Farmingdale State College, Suffolk County, Suffolk County Community College, Sustainability Institute at Molloy University, Sierra Club, NY League of Conservation Voters, Emerald Alternative Energy Solutions, Electrify America, Long Island EVs, IMEG, LI Regional Clean Energy Hub as well as other Long Island municipalities, automakers, car dealerships, industry associations, business leaders and EV enthusiasts.

This 2025 State of Electric Vehicles on Long Island is the result of the hard work of many people:

At the USGBC-LI, Rosemary Mascali, Chair of the Drive Electric Long Island Education and Outreach Subcommittee put together most of the report with the helpful ideas, comments and revisions of many other coalition members including Jacob Kraniak, Ron Gulmi and Paul DiBenedetto.

This report could not have been created without the wealth of electric vehicle statistics and tools provided by New York State Energy Research and Development Authority (NYSERDA) including the Drive Clean Rebate Program dashboard and the EValueNY tool that compiles New York State statistics on electric vehicle registrations and charging infrastructure. Links to these sites can be found in Appendix D.

The State of Electric Vehicles on Long Island

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State of Electric Vehicles on Long Island

It is well known that Long Islanders are car dependent. According to the American Community Survey (ACS), 72% of Long Islanders drive alone to work – 66% in Nassau County and 78% in Suffolk County. It's also well known that this dependency comes at a cost in terms of long commute times due to traffic congestion, poor air quality due to high ozone levels, and high greenhouse gas emissions. Transportation is a major source of greenhouse gas emissions on Long Island. In fact, 28% of Long Island's carbon emissions are from transportation as identified in 2013 in the Cleaner, Greener Long Island Regional Sustainability Plan.

While increasing mobility options other than driving, such as mass transit, carpooling, bicycling, and walking are important strategies to reduce our overall car dependency, perhaps the most realistic strategy to reaching our air quality and greenhouse gas goals is to aggressively move to electrify transportation.

Drive Electric Long Island is a coalition of electric vehicle stakeholders formed in 2018 and dedicated to encouraging and accelerating the adoption of electric vehicle usage and charging infrastructure on Long Island through advocacy, education and outreach efforts to local municipalities, companies, residents, and industry stakeholders. Since our first report published in September 2019, the number of EVs on the road have risen dramatically from 12,833 to 71,171 at year end 2024. In the past year alone, the total number of EV's on the road increased 39%, and EV original registrations grew 27%.

This report details the current state of electric vehicles and supporting charging infrastructure adoption on Long Island including our findings based on detailed statistics on electric vehicle registrations and charging stations on Long Island. Appendix A includes Drive Electric Long Island's mission, goals, and planned strategies. Appendix B provides basic information on electric vehicles and charging stations to provide a base level of knowledge to understand our findings. Appendixes C and D provide information on available rebates and incentives for electric vehicles and charging stations, and other electric vehicle information resources.

I – Summary of Key Findings

1. **Long Island is New York State’s largest market for electric vehicles.**

Long Island has almost 3 million residents and one million households, with 2.3 million registered vehicles - 2.4 vehicles per household in Suffolk County and 2.2 vehicles per household in Nassau County. 21% of all light-duty vehicles in NYS are registered on Long Island.

2. **Long Island is a leader in electric vehicle adoption in New York State.**

With 71,171 electric vehicles registered as of 12/31/24, Long Island represents 26% of the NYS total of 271,171 electric vehicles, despite being only 15% of the state’s population. Registered electric vehicles on the road on Long Island grew 39% from 51,131 at year end 2023 to 71,171 at year end 2024. Among all registered electric vehicles, 64% are battery electric vehicles and 36% are plug-in hybrid vehicles. This is an increase in the share of battery electric vehicles from 62% at year-end 2023 to 64% at year-end 2024.

3. **Battery Electric vehicle models continue to be the most popular on Long Island led by the Tesla Model Y and Telsa Model 3.**

The top two battery electric models on Long Island are the Tesla Model Y (15,279) and the Tesla Model 3 (9,576). The top two plug-in hybrid models are the Jeep Wrangler plug-in hybrid (5,103), and the Toyota Prius Prime (3,065). Tesla is the most popular EV brand on Long Island with 41.4% of all EVs on the road, however this is down from 44.5% share at year-end 2023. The second most popular brand is Jeep with 11% of all EVs on the road, up from 9.5% at year-end 2023. The third most popular brand is Toyota with 9.7% of the all the EVs on the road, down from 11.2% at year-end 2023.

4. **Total EVs on the road grew rapidly in 2024 in many Long Island towns and cities.**

The number of EVs on the road grew significantly in many of Long Island’s towns and cities. The largest growth of more than 40% occurred in the Towns of Babylon, Hempstead, Smithtown and North Hempstead, and the cities of Glen Cove and Long Beach.

5. **Long Island dealers submitted 15,909 NYS rebate requests in 2024, 34% of the total 46,210 rebate requests in New York State in 2024.**

Long Island dealers submitted 15,909 NYS rebate requests in 2024, 8,293 in Nassau County and 7,616 in Suffolk County, of which 68% were for battery electric vehicles and 32% were

for plug-in hybrids.

6. In 2024, 80 electric vehicle models from 29 brands were sold on Long Island.

As measured by the number of NYS EV rebates submitted by electric vehicle manufacturers and dealers, in 2024, Tesla vehicles continued to be the most popular EVs sold on Long Island with 47% of all EV rebates submitted in 2024. Jeep plug-in hybrid vehicles were also popular on Long Island with 16% of all EV rebates submitted in 2024. The most popular EV models on Long Island in 2024 were the Tesla Model Y, Tesla Model 3 battery electrics, the Jeep Wrangler and Jeep Grand Cherokee plug-in hybrids, and the Toyota RAV4 Prime plug-in hybrid and Toyota bZ4x battery electric.

7. In 2024, non-Tesla dealer rebates requests on Long Island grew 36%.

In 2024, rebate requests from non-Tesla dealers grew 36% from 6,188 in 2023 to 8,451 in 2024. Sales were dominated by Jeep Wrangler and Jeep Cherokee plug-in hybrid vehicles and Toyota RAV4 Prime plug-in hybrids and bZ4x battery electric. Twenty-five dealers submitted over 100 EV rebates requests for vehicles registered in Nassau and Suffolk, up from only 16 in 2023.

The top 10 non-Tesla dealerships were Westbury Jeep (370), Smith Haven Jeep (268), Security Jeep (253), Smithtown Toyota (248), Sunrise Toyota (247), Atlantic Jeep (224), Browns Jeep (214), Westbury Toyota (209), Town & Country Jeep (198), Habberstad BMW of Bayshore (186).

8. Public DC Fast Charge and Type 2 electric vehicle charging ports have been expanding on Long Island.

There has been a continued steady increase in the availability of both Type 2 and DC Fast Charge public electric vehicle charging infrastructure on Long Island. Significantly, the announcement by all manufacturers to support the Tesla NACS charging standard will greatly increase access to public charging for non-Tesla electric vehicles on Long Island.

Overall, the state of electric vehicles on Long Island continues to be very promising. The increased variety of electric vehicle models, attractive federal, state and utility incentives, increased awareness of the benefits of electric vehicles and expanding EV infrastructure all point to another high growth year in 2025.

II. Electric Vehicle Statistics for Long Island and NYS

Using data from the New York State Department of Motor Vehicles (DMV), NYSERDA developed the tool EValuateNY that compiles statistics on the electric car market, including where vehicles are registered, and which make and models are most popular. EValuateNY also incorporates additional data from U.S. Department of Energy, U.S. Census Bureau, and other sources to provide information about demographics of communities with high EV ownership and where charging stations are located. In addition, NYSERDA's Drive Clean Rebate program dashboard includes aggregated information on which models and technologies are most popular in the program, when New Yorkers claimed their rebates, and which car dealers are making the most sales, among other statistics.

This section includes statistics that were largely derived from the use of the above tools:

1. Long Island and NYS population and vehicle registrations
2. Long Island and NYS annual electric vehicle registrations
3. Long Island electric vehicles on the road by model
4. Long Island EV Registrations by Town and Community
5. Long Island electric vehicle 2024 NYS rebates
6. Long Island electric vehicle 2024 NYS rebates by model
7. Long Island top EV dealerships submitting NYS rebates in 2024
8. Long Island Public EV Charging Infrastructure

1. Long Island and NYS Population and Vehicle Registrations

Long Island has almost 3 million residents living in almost one million households. These households collectively have 2.3 million registered vehicles – an average of 2.4 vehicles per household in Suffolk County and 2.2 vehicles per household in Nassau County compared to only 1.4 per household in New York State. As such, Long Island represents the largest market for electric vehicles in New York State. In fact, 21% of all light-duty vehicles in New York State are registered on Long Island.

Vehicle Registrations

YE 2024	NYS	Nassau	Suffolk	Total LI	% of NYS
Light-Duty Vehicles	10,821,578	1,009,907	1,268,762	2,278,669	21%

Population, Households, Cars per person and Cars per household

	NYS	Nassau	Suffolk	Total LI	% of NYS
Population	19.57 million	1.38 million	1.52 million	2.9 million	15%
Households	7.67 million	.46 million	.52 million	1 million	13%
Cars per person	.55	.73	.83	.79	144%
Cars per household	1.4	2.2	2.4	2.3	164%

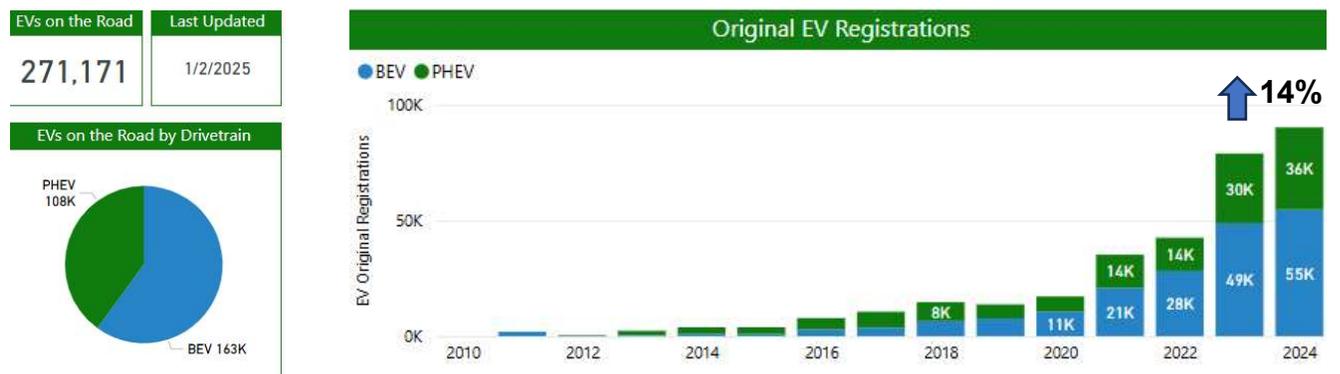
Beyond the sheer number of light-duty passenger vehicles and the average number of 2.3 vehicles per household, several other unique characteristics make Long Island a good market for electric vehicles, including 82% single-family homes allowing for convenient and economical home charging. In addition, 80% of Long Islanders live and work on Long Island, and because Long Island is geographically compact, the average distance travelled is less than 50 miles per day, a range that is easily handled by today’s electric vehicles.

2. Long Island and New York State Annual Electric Vehicle Registrations

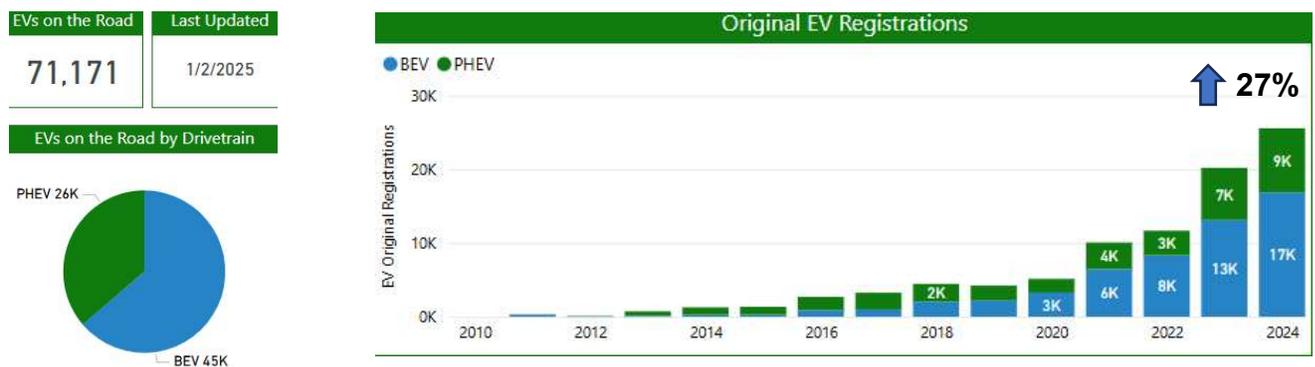
Long Island has been a leader in electric vehicle adoption in New York State, with electric vehicles registrations showing steady growth since 2012. With a total of 71,171 electric vehicles registered at year-end 2024 (up 39% from year-end 2023), Long Island represents 26% of the New York State total of 271,171, despite being only 15% of the state’s population vehicles. New York State experienced a 14% growth in EV original registrations in 2024, while Long Island experienced twice the growth rate of New York State with a 27% growth in original registrations.

Among all registered electric vehicles, 64% are battery electric vehicles and 36% are plug-in hybrid vehicles. This is an increase in the share of battery electric vehicles from 62% at year-end 2023 to 64% at year-end 2024.

New York State Electric Vehicle on the Road by Technology and Original EV Registrations by Year



Long Island Electric Vehicle on the road by Technology and Original Registrations by Year

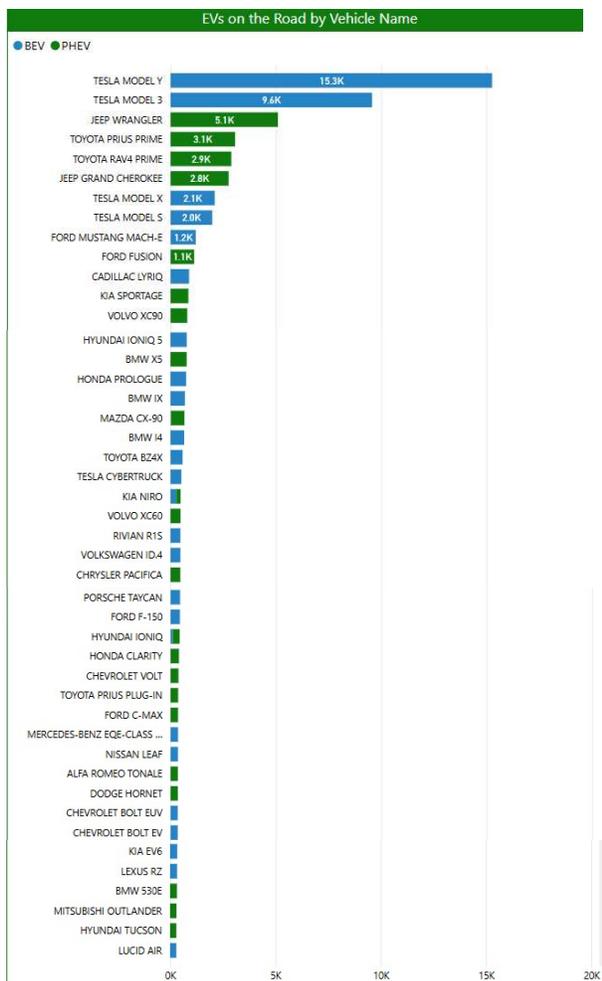


3. Long Island Electric Vehicles on the Road by Model

The top two battery electric models on the road on Long Island are the Tesla Model Y (15,279) and the Tesla Model 3 (9,576). The top two plug-in hybrid models are the Jeep Wrangler plug-in hybrid (5,103), and the Toyota Prius Prime (3,065).

Tesla is the most popular EV brand on Long Island with 41.4% of all EVs on the road, however this is down from 44.5% share at year-end 2023. The second most popular brand is Jeep with 11% of all EVs on the road, up from 9.5% at year-end 2023. The third most popular brand is Toyota with 9.7% of the all the EVs on the road, down from 11.2% at year-end 2023. The remaining EV brands represent 38% of the EVs on the road on Long Island led by Ford, GM, BMW, Hyundai and Kia.

Long Island EVs on the Road By Vehicle Name



4. EV Registrations on Long Island by Town and Community

The number of EVs on the road grew significantly in many of Long Island’s towns and cities. The largest growth of more than 40% occurred in the towns of Babylon, Hempstead, Smithtown and North Hempstead, and the cities of Glen Cove and Long Beach.

Long Island Towns and Cities Ranked by % YTD Growth in EVs on the Road

	Town	Total EVs 2023	Total EVs 2024	% Growth
1	Babylon	1,948	2,920	49.9%
2	Hempstead	9,931	14,481	45.8%
3	City of Long Beach	373	543	45.6%
4	Smithtown	2,623	3,781	44.1%
5	City of Glen Cove	378	541	43.1%
6	North Hempstead	7,508	10,517	40.1%
7	Islip	3,751	5,224	39.3%
8	Oyster Bay	7,833	10,818	38.1%
9	Huntington	5,310	7,284	37.2%
10	Brookhaven	7,366	9,865	33.9%
11	Southampton	1,863	2,400	28.8%
12	East Hampton	842	1,070	27.1%
13	Riverhead	745	933	25.2%
14	Southold	531	653	23.0%
15	Shelter Island	107	123	15.0%
	Total Long Island	51,109	71,153	39.2%

Many communities in both Nassau and Suffolk counties on Long Island have significant numbers of electric vehicles on the road. The top 10 communities with the most EVs on the road on Long Island are Huntington Station, Syosset, Huntington, New Hyde Park, Plainview, Port Washington, Hicksville, Manhasset, Westbury and Melville.

Top 25 Long Island communities with the most EVs on the road

	Community	Town	EVs on the Road YE 2024	YTY % Growth
1	Huntington Station	Huntington	2,368	38.8%
2	Syosset	Oyster Bay	1,741	30.7%
3	Huntington	Huntington	1,657	35.8%
4	New Hyde Park	North Hempstead	1,600	42.0%
5	Plainview	Oyster Bay	1,494	41.1%
6	Port Washington	North Hempstead	1,214	38.9%
7	Hicksville	Oyster Bay	1,166	48.9%
8	Manhasset	North Hempstead	1,100	34.0%
9	Westbury	North Hempstead	1,051	51.9%
10	Melville	Huntington	1,047	37.0%
11	Roslyn	North Hempstead	1,040	36.1%
12	Massapequa	Oyster Bay	1,039	55.5%
13	Merrick	Hempstead	1,025	47.1%
14	Jericho	Oyster Bay	977	31.7%
15	Smithtown	Smithtown	959	47.8%
16	Commack	Smithtown	921	49.5%
17	Levittown	Hempstead	885	48.5%
18	East Meadow	Hempstead	871	47.1%
19	East Setauket	Brookhaven	830	29.3%
20	Northport	Huntington	805	41.0%
21	Bellmore	Hempstead	802	47.7%
22	Garden City	Hempstead	798	34.8%
23	Great Neck Plaza	North Hempstead	785	32.2%
24	East Hampton / Springs	East Hampton	783	27.7%
25	Roslyn Heights	North Hempstead	779	37.1%

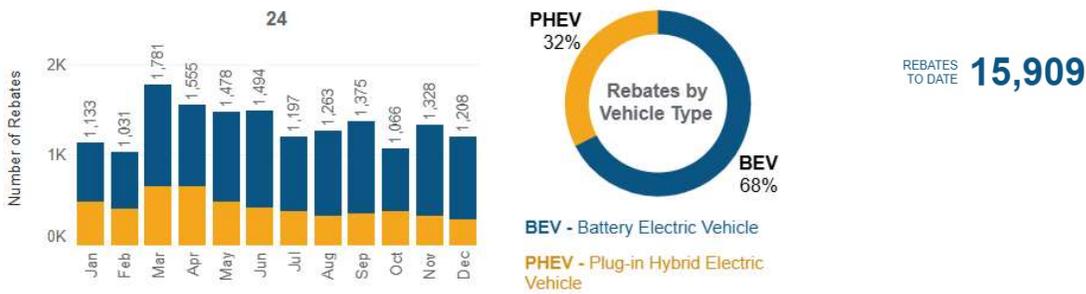
5. Long Island Electric Vehicle 2024 NYS Rebates

Long Island dealers submitted 15,909 NYS rebate requests in 2024, 34% of the total 46,210 rebate requests in New York State in 2024.

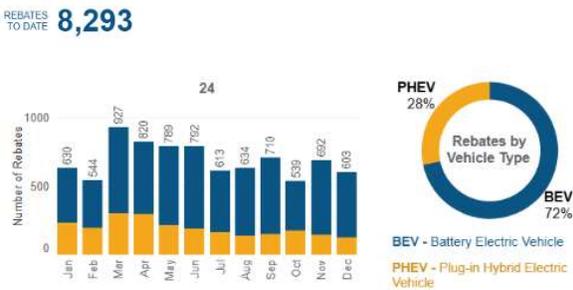
Long Island dealers submitted 15,909 NYS rebate requests in 2024, 8,293 in Nassau County and 7,616 in Suffolk County. This represents 34% of the total 46,210 rebate requests in New York State in 2024, over a third of the market for EVs.

In 2024 on Long Island, 68% of the rebates were for battery electric vehicles and 32% were for plug-in hybrids. In Nassau County, 72% of the rebates were for battery electric vehicles while in Suffolk County, 63% of the rebates were for battery electric vehicles.

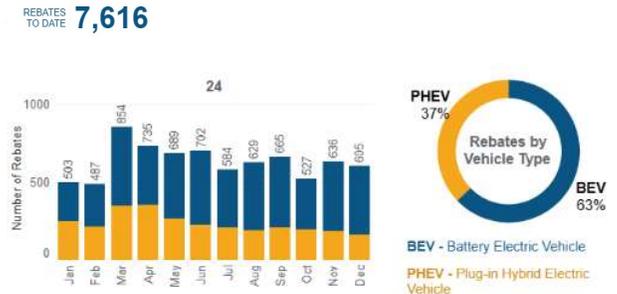
Total Long Island 2024 EV Rebates



Nassau County 2024 EV Rebates



Suffolk County 2024 EV Rebates



6. Long Island Electric Vehicle 2024 NYS Rebates by Model

In 2024, 80 electric vehicle models from 29 brands were sold on Long Island. As measured by the number of NYS EV rebates submitted by electric vehicle manufacturers and dealers, Tesla vehicles continued to be the most popular EVs sold on Long Island with 47% of all EV rebates submitted in 2024. Jeep plug-in hybrid vehicles were also popular on Long Island with 16% of all EV rebates submitted in 2024. The most popular EV models on Long Island were the Tesla Model Y, Tesla Model 3 battery electrics, the Jeep Wrangler and Jeep Grand Cherokee plug-in hybrids, and the Toyota RAV4 Prime plug-in hybrid and the bZ4X battery electric.

Rebates by Make and Model		
Tesla	Model Y	4,931
	Model 3	2,067
	Model X	310
	Model S	150
Jeep	Wrangler	1,534
	Grand Cherokee	964
Toyota	RAV4 Prime	940
	bZ4X	398
	Prius Prime	310
BMW	BMW iX	215
	BMW i4	207
	i5	97
	X5	95
	i7	36
	XM	29
	330e	10
	750e xDrive	2
	i4 xDrive40	2
	530e	1
Kia	Sportage	287
	Niro	124
	EV9	98
	Kia EV6	81
Chevrolet	Sorento	48
	Equinox	216
	Blazer	164
Ford	Bolt	39
	Mustang Mach-E	194
	F-150 Lightning	127
Hyundai	Escape	27
	F-150 Lightning ..	1
	Hyundai Ioniq 5 ..	112
	Ioniq 6	65
	Tucson	64
	Kona Electric	38
Honda	GV70	9
	Ioniq 5 N	1
Volvo	Santa Fe	1
	Prologue	285
	XC60 T8	94
	XC90 T8	89
	S60	19

Rebates by Make and Model		
	XC40	18
	Volvo C40	10
	V60	2
Lexus	RZ 450e	90
	Lexus NX450h+	51
	RZ300e	43
	RX 450h+	29
	TX 550h+	4
Audi	Q5	110
	Audi Q4 e-tron	41
	e-tron	39
	e-tron S Sportba..	17
	Null	1
Mercedes-Benz	EQE	94
	Mercedes EQS	47
	EQB	26
	GLE 450e	9
	GLC350e	6
	S580e 4M	4
Mazda	CX-90	139
	CX-70	14
Alfa Romeo	Tonale	117
Volkswagen	ID.4	91
Cadillac	Lyriq	86
Acura	ZDX	78
Subaru	Solterra	76
Chrysler	Pacifica	47
Dodge	Hornet	45
MINI	Cooper	32
Lincoln	Lincoln Corsair ..	23
	Aviator	5
Nissan	LEAF	10
	ARIYA	7
Genesis	GV60	7
Polestar	Polestar 2	4
Porsche	Taycan	2
	Cayenne E-Hybri..	1
Fiat	500e	2
Mitsubishi	Outlander	1
Grand Total		15,909

7. Long Island Top EV Dealerships Submitting NYS Rebates in 2024

In 2024, rebate requests from non-Telsa dealers grew 36% from 6,188 in 2023 to 8,451 in 2024. Sales were dominated by Jeep Wrangler and Jeep Cherokee plug-in hybrid vehicles and Toyota RAV4 Prime plug-in hybrids and bZ4x battery electric. Almost 100 dealers on Long Island sold at least 20 electric vehicles, reflecting the wider availability of electric vehicle models and the growing demand.

Twenty-five dealers submitted over 100 EV rebates requests for vehicles registered in Nassau and Suffolk, up from only 16 in 2023. The top 10 non-Tesla dealerships were Westbury Jeep (370), Smith Haven Jeep (268), Security Jeep (253), Smithtown Toyota (248), Sunrise Toyota (247), Atlantic Jeep (224), Browns Jeep (214), Westbury Toyota (209), Town & Country Jeep (198), Habberstad BMW of Bayshore (186).

2024 Rebates by Dealer		
Tesla Motors New York LLC	7,458	
Westbury Jeep Chrysler Dodg..	370	
Smith Haven Chrysler Jeep Do..	268	
Security Dodge Chrysler Jeep ..	253	
Smithtown Toyota	248	
Sunrise Toyota	247	
Atlantic Chrysler Jeep Dodge ..	224	
Browns Jeep Eagle Chrysler P..	214	
Westbury Toyota	209	
Town & Country Jeep Chrysler..	198	
Habberstad BMW of Bay Shore	186	
Riverhead Toyota	183	
Huntington Jeep Chrysler, Inc	182	
Rallye BMW	179	
East Hills Chrysler Jeep Dodge	177	
Millennium Tovota Scion	173	
Garden City Jeep Chrysler Do..	165	
Merrick Jeep Chrysler Dodge ..	150	
Kia of Huntington	136	
112 Mazda Nesenger, Mazda 1..	131	
North Shore Chevrolet of Smit..	126	
BMW of Freeport	124	
Rallye Motors	124	
Smithtown Kia	108	
Lexus Buick of Smithtown	107	
Toyota of Massapequa	103	
Port Jeff Chrysler Jeep Inc	97	
Westbury Imports LLC	94	
Autoworld Kia	93	
Generation Kia	93	
Huntington Toyota	90	
Sunrise Toyota North	89	
South Shore Kia	85	
Advantage Toyota	82	
Mercedes-Benz of Huntington	82	
Empire Volvo Cars Smithtown	81	
Atlantic Toyota	78	
BMW of Bayside	75	
Atlantic Honda	71	
Volvo Care Glen Cove	71	
Hempstead Ford Lincoln	64	
Competition BMW of Smithtown	62	
Hassett Ford Lincoln Mercury I..	57	
Audi of Huntington	54	
Bayside Chrysler Dodge Jeep ..	54	
Centereach Hyundai	54	
Sayville Ford	52	
Atlantic Chevrolet Cadillac	51	
Atlantic Kia	46	
Atlantic Hyundai	44	
Audi Great Neck	44	
Millennium Hyundai	44	
Penn Toyota	42	
Chevrolet of Huntington	41	
Volvo Cars of Queens	41	
Plaza Kia	40	
Brooklyn Chrysler Jeep Dodge..	39	
Central Avenue Chrysler	39	
Island Chrysler Jeep Dodge R..	39	
Stoler Lexus	39	
Audi of Smithtown	38	
Ray Catena BMW of Westches..	38	
Otis Ford Inc	37	
Riverhead Ford Lincoln Buick ..	37	
Chrysler Dodge Jeep Ram Fiat..	36	
Garden City Mazda	36	
Levittown Ford LLC	35	
King O'Rourke Cadillac Oldsm..	34	
Acura of Bay Shore	33	
Riverhead Mazda	31	
Route 110 Hyundai Route 110 ..	31	
Baron Honda	29	
Millennium Honda	29	
Riverdale Chrysler Jeep	29	
Nardy Honda	28	
Eagle Kia of Riverhead	27	
Millennium Chevrolet	27	
Audi Manhattan	26	
Arnold Chevrolet Buick	25	
Empire Mazda of Huntington	24	
Paul Conte Cadillac	24	
South Shore Chrysler Dodge J..	24	
Buzz Chew Chevrolet Cadillac ..	23	
Competition Subaru of Smith..	23	
John Starks Kia	23	
Porsche Amityville	23	
Suresky Hyundai Chrysler Jee..	23	
Bright Bay Mazda	22	
Volkswagen of West Islip	22	
Basil Toyota	21	
East Hills Chevrolet of Freeport	21	
Hillside Toyota	21	
Honda City	20	
Huntington Ford Lincoln	20	
Huntington Honda	20	
Lexus of Freeport	20	
United CDJR LLC	20	
Volvo Cars of Huntington	20	

8. Long Island Public EV Charging Infrastructure

There has been a continued increase in the availability of both Type 2 and DC Fast Charge public electric vehicle charging infrastructure on Long Island. In addition, the adoption of the Tesla NACS standard by virtually all electric vehicle manufacturers will open the Tesla DCFC locations to all types of electric vehicles, greatly expanding the availability of DC Fast Charge ports to owners of non-Tesla vehicles. This will be particularly important for residents of multi-family dwellings without easy access to home charging.

Public Electric Vehicle Charging Stations on Long Island



Source: <https://atlaspolicy.com/evaluateny/>

Electric Vehicle Charging Stations on Long Island by County and Type

	Level 2 Ports	Level 2 Locations	DC Fast Charge Ports	DC Fast Charge Locations
Nassau County	230	97	158	27
Suffolk County	471	210	266	60
Long Island	701	307	424	87

Electric Vehicle Charging Stations by Town and City

The following table lists the number of EVs and EV charging ports located within each Town and City on Long Island. The Town of Hempstead has the largest number of EV charging ports located within the town boundaries, followed by the Town of Brookhaven and the Town of Oyster Bay.

Long Island Towns and Cities ranked by the total number of public charging ports

	Town	Total EVs on the Road	Number of Level 2 Ports	Number of DCFC Ports	Total Charging Ports
1	Hempstead	14,481	121	79	200
2	Brookhaven	9,865	129	57	186
3	Oyster Bay	10,818	49	48	97
4	Southampton	2,400	50	44	94
5	Riverhead	933	62	28	90
6	Islip	5,224	67	19	86
7	North Hempstead	10,517	53	31	84
8	Huntington	7,284	46	28	74
9	Babylon	2,920	40	25	65
10	East Hampton	1,070	30	28	58
11	Smithtown	3,781	23	31	54
12	Southold	653	17	6	23
13	Shelter Island	123	7	0	7
14	City of Long Beach	543	4	0	4
15	City of Glen Cove	541	3	0	3
	Total Long Island	71,153	701	424	1,125

Charging for Multi-Unit Dwellings

Long Island’s one million housing units are predominantly single-family dwellings with 82% of housing units being single family homes. Charging electric vehicles for these households is both convenient and inexpensive as EV owners can either charge with a Type 1 120V outlet or a Type 2 208V/240V charger and take advantage of PSEG LI Time-of-Day Rate plans for deeply discounted super off-peak electricity rates.

Despite this predominance of single-family homes, 180,000 households on Long Island are multi-unit dwellings without easy access to EV charging. These units include co-ops, condos and apartment rental properties.

To address the needs of this important market segment, Drive Electric LI recommends a multi-tiered charging strategy including community Direct-Current Fast Charger (DCFC) locations for fast charge capability, complemented with Type 1 and Type 2 charging on premises at condo, coop and rental property locations. This approach could minimize the cost of installation and ongoing electricity by using Type 1 and Type 2 charging for appropriate use cases yet providing easy access to DCFC fast charging when needed.

Drive Electric Long Island performed an in-depth analysis using census data and DMV vehicle registration data to identify Long Island communities with a higher percentage of multi-unit dwellings where gaps in DCFC service exist. The following table lists ten communities that were identified that can benefit from community DCFC stations to meet the future charging needs of their multi-family dwelling residents.

Long Island Communities that can benefit from Community DCFC Stations

	Community	Town/City	% Single Family Homes	Estimated Number of Vehicles in Multi-Unit Dwellings
1	Patchogue / East Patchogue	Brookhaven	62%	13,000
2	City of Long Beach	Long Beach	44%	12,500
3	Huntington Station	Huntington	80%	10,300
4	City of Glen Cove	Glen Cove	57%	8,700
5	Rockville Centre	Hempstead	63%	6,700
6	North Amityville / Amityville	Babylon	68%	6,200
7	Uniondale	Hempstead	75%	4,200
8	Great Neck Plaza	North Hempstead	67%	3,700
9	Middle Island	Brookhaven	63%	3,700
10	Oakdale	Islip	71%	2,200

APPENDIX A - Drive Electric Long Island Mission and Goals

Goals

Drive Electric Long Island is a coalition of electric vehicle stakeholders dedicated to accelerating the adoption of electric vehicles and EV charging infrastructure on Long Island. The coalition goals are to:

- Support the goals of the Climate Leadership & Community Protection Act to reduce greenhouse gas emissions from 1990 levels by 40 percent by 2030, and no less than an 85 percent reduction by 2050, through the acceleration of the electric vehicle market toward the goal of 100% light duty zero-emission vehicle sales by 2035.
- Support the Multi-State ZEV Action Plan and enable New York State to meet its Zero-Emission Vehicle (ZEV) objectives.

Mission

Drive Electric Long Island is dedicated to encouraging and accelerating the adoption of electric vehicle usage and charging infrastructure on Long Island through advocacy, education and outreach efforts to local municipalities, companies, residents, and industry stakeholders.

Led by the U.S. Green Building Council – Long Island Chapter (USGBC-LI), the coalition includes a broad range of electric vehicle (EV) stakeholders on Long Island including PSEG Long Island, Farmingdale State College, Suffolk County, Suffolk County Community College, Sustainability Institute at Molloy University, Sierra Club, NY League of Conservation Voters, Emerald Alternative Energy Solutions, Long Island EVs, IMEG, LI Regional Clean Energy Hub, as well as other Long Island municipalities, automakers, car dealerships, industry associations, business leaders and EV enthusiasts. Our vision is to accelerate the adoption of electric vehicles and infrastructure on Long Island, both consumer and commercial, by addressing the key barriers to widespread adoption, including awareness, charging infrastructure and cost.

Strategies

Key priorities of the coalition include consumer outreach and education, increased public and workplace EV infrastructure, conversion of commercial fleets, and advocacy for EV friendly policy. The Coalition accomplishes this through the following activities:

- Regular meetings of the committees of key stakeholders including municipal administrators, local car dealerships, business leaders, PSEG Long Island, infrastructure providers, current EV owners and educational institutions, to offer ideas, provide demonstration vehicles, make introductions within the community and monitor progress.
- Evaluate existing codes, policies, and regulations to determine what is already in place to support EV adoption on Long Island, how these policies can be leveraged, and which new ones should be implemented.
- Build awareness by conducting EV 101 events and Ride and Drives to promote EV adoption, with each event type targeting a different group of participants.
- Establish strong relationships with local and regional dealerships including providing electric vehicle sales training.
- Coordinate with village, town and county planners and building departments to produce high impact EV infrastructure policies. Support the adoption of codes and standards for building codes that will accelerate infrastructure development.
- Collaborate with infrastructure manufacturers and network/software solutions to assist in promoting the various alternatives available.
- Function as a resource to educate and inform stakeholders regarding the different technologies, incentives, rebates and funding for infrastructure. Conduct informational sessions at existing infrastructure to increase awareness and understanding about the various infrastructure solutions.

Drive Electric Long Island will accelerate the growth of the electric vehicle market on Long Island by simultaneously leveraging and strategically coordinating all the components of success, resulting in improved air quality, reduced greenhouse gases, reduced transportation costs, and a strengthened utility grid.

APPENDIX B - Electric Vehicle and Charging Basics

Battery Electric Vehicles (BEVs)

Battery electric vehicles use batteries to store the energy that powers the motor. The batteries are charged by plugging the vehicle into an electric power source. In addition, BEVs are charged in part by regenerative braking, which generates electricity from some of the energy normally lost when braking.

The mainstream EV range target is approximately 250-300 miles on a fully charged battery, although some BEVs can reach ranges of over 400 miles. The range depends on the size of the battery, driving conditions and driver habits, among other factors. The time required for charging depleted batteries – which can range from 15 minutes to over a full day – depends on the size and type of the batteries, as well as the type of charging equipment used.

Plug-In Hybrid Electric Vehicles (PHEVs)

PHEVs use batteries to power an electric motor and also use an internal combustion engine (ICE) powered by gasoline. Powering the vehicle with electricity from the grid reduces operating costs, cuts petroleum consumption and reduces tailpipe emissions compared with conventional vehicles. When driving distances are longer than the all-electric range, PHEVs perform like traditional hybrid vehicles, consuming less fuel and producing fewer emissions than similar conventional vehicles.

The PHEVs battery pack gives an all-electric driving range of about 20-50 miles. This enables the vehicle to travel a moderate distance without using its ICE. The ICE powers the vehicle when needed, such as when the battery is mostly depleted, during rapid acceleration, or when using the heating/air conditioning. Like the BEV, the PHEV is charged by plugging into the grid

Key Acronyms

EVs (all-electric vehicles) are powered by one or more electric motors. They receive electricity by plugging into the grid and store it in batteries. They consume no petroleum-based fuel and produce no tailpipe emissions. EVs are also referred to as battery-electric vehicles (BEVs).

EVSE (electric vehicle supply equipment) delivers electrical energy from an electricity source to charge a vehicle's batteries. EVSE communicates with the PEV to ensure that an appropriate and safe flow of electricity is supplied.

HEVs (hybrid electric vehicles) combine an ICE or other propulsion source with batteries, regenerative braking, and an electric motor to provide high fuel economy. HEVs rely on a petroleum-based or alternative fuel for power and are not plugged in to charge. HEV batteries are charged by the ICE and during regenerative braking.

ICEs (internal combustion engines) generate mechanical power by burning a liquid fuel (such as gasoline, diesel, or a biofuel) or a gaseous fuel (such as compressed natural gas). They are the dominant power source for on-road vehicles today.

PEVs (plug-in electric vehicles) derive all or part of their power from electricity supplied by the electric grid. They include EVs and PHEVs.

PHEVs (plug-in hybrid electric vehicles) use batteries to power an electric motor, plug into the electric grid to charge, and use a petroleum-based or alternative fuel to power the ICE. Some types of PHEVs are also called extended-range electric vehicles (EREVs).

and also captures some energy from regenerative braking. Compared to the BEV, the PHEV takes less time to reach a full charge because of its smaller battery pack.

WHY BUY ELECTRIC?

The technology-rich experience that an electric car presents is hard to beat. Electric cars deliver fast and smooth acceleration, they are quiet, and they offer an unmatched level of responsiveness. Electric cars also save time and money. Electric motors don't need oil changes and have many fewer parts, so they require less maintenance than conventional gas cars. The cost of fuel is about half that of ICE vehicles. Electric car owners make fewer or no trips to the gas station.

TYPES OF CHARGING EQUIPMENT

Electric Vehicle Supply Equipment deliver electrical energy from an electricity source to charge a vehicle's batteries. There are several types of charging equipment:

LEVEL 1 Charging

- Cord and Plug connected, single-phase 110V/120V, up to 16A (1.9 kW)
- 8-20+ hours for a full charge

LEVEL 2 Charging

- Wired to individual branch circuit, single-phase 208V/240V, up to 80A (19.2kW)
- 4-8 hours for a full charge

DC Fast Charging

- 400-900V DC, up to 200 A (50-350 kW); as little as 20-30 minutes to charge.
- Tesla Supercharging – V3 Chargers charge at a rate of 250kW – about 75 miles in 5 minutes.

DC FAST CHARGE	AC LEVEL 2	AC LEVEL 1
 30 MINUTES CHARGE TIME	 4-8 HOURS CHARGE TIME	 8-20+ HOURS CHARGE TIME
<ul style="list-style-type: none">• Direct Current (DC) provided at 40-100 kW• 80% charge in 20 minutes• Requires 480V supply at 80-200Amps• J1772 Combo, CHAdeMO, or Tesla connector	<ul style="list-style-type: none">• Alternating Current (AC) provided at 3.3-19.2 kW (6.6 kW most common)• 10-20 electric miles per hour• Requires 208/240V supply at 20-80 Amps• J1772 or Tesla connector	<ul style="list-style-type: none">• Alternating Current (AC) provided at 1.4-1.9 kW• 2-5 electric miles per hour• Requires 120V supply at 12-16Amps• J1772 or Tesla connector

Appendix C - Rebates and Incentives Available for EVs and Charging Stations

Rebates and Incentives for Electric Vehicles

- **Federal Tax Credit: New Clean Vehicle - up to \$7,500**
 - A federal IRS tax credit of up to \$7,500 per new EV purchased for use in the U.S. Eligibility and size of the tax credit depends on the sourcing of its battery components and its critical minerals, where the vehicle was assembled, its suggested retail price and the buyer's income. Buyers can claim this tax credit as a point-of-sale discount. (Also see opportunity below for reduced EV leasing costs with Qualified Commercial Clean Vehicles tax credit.) <https://www.irs.gov/credits-deductions/credits-for-new-clean-vehicles-purchased-in-2023-or-after>
- **Federal Tax Credit: Used Clean Vehicle – up to \$4,000**
 - A federal IRS tax credit of 30% of the sales price up to \$4,000. Must meet eligibility requirements including income limits, a sales price of \$25,000 or less, and purchase from a dealer. Buyers can claim this tax credit as a point-of-sale discount. <https://www.irs.gov/credits-deductions/used-clean-vehicle-credit>
- **Federal Tax Credit: Qualified Commercial Clean Vehicles – up to \$40,000**
 - Businesses and tax-exempt organizations that buy a qualified commercial clean vehicle may qualify for a federal clean vehicle tax credit of up to \$40,000, with a maximum credit of \$7,500 for vehicles under 14,000 pounds. Leasing companies can claim this credit for vehicles they purchase to lease to consumers, regardless of where they were assembled or how much they cost. Many leasing companies are passing this credit to consumers in the form of lower lease payments. <https://www.irs.gov/credits-deductions/commercial-clean-vehicle-credit>
- **New York State Drive Clean Rebate: Up to \$2,000**
 - Open to all New York State residents, the Drive Clean Rebate offers a point-of-sale rebate of up to \$2,000 towards the purchase or lease of a new electric car. The amount of rebate depends on all electric range and suggested retail price of vehicle. <https://www.nyserda.ny.gov/Drive-Clean-Rebate>

- **New York Clean Pass Program**

Allows eligible low-emission, energy efficient vehicles to use LIE/HOV lanes regardless of number of occupants in the vehicle. (Note: The NYS Department of Transportation has indicated that this program may be discontinued September 30, 2025.)

<https://www.dot.ny.gov/programs/clean-pass>

Rebates and Incentives for Charging Stations

- **New York State Charge Ready 2.0**

➤ Charge Ready NY 2.0 offers incentives to public, private and not-for-profit organizations that install Level 2 EV charging stations at workplaces, multi-unit dwellings (MUD's), or public facilities that are owned and operated by municipal or state government entities. NYSERDA provides incentives on a per-port basis at varying amounts, based on location type and whether is it located within a Disadvantaged Community (DAC):

- \$4,000 per charging port installed at a *public facility* (must be located within a DAC)
- \$2,000 per charging port installed at a *workplace* or *multi-unit dwelling* location.

<https://www.nyserda.ny.gov/All-Programs/ChargeNY/Charge-Electric/Charging-Station-Programs/Charge-Ready-NY>

- **New York State Tax Credit for Public and Workplace Charging**

➤ Businesses and employers can receive an income tax credit of up to \$5000 for the purchase and installation of an electric vehicle charging station through the end of 2025.

https://www.tax.ny.gov/pit/credits/alt_fuels_elec_vehicles.htm

- **Federal IRS Alternate Fuel Infrastructure Tax Credit up to \$100,000**

➤ Federal tax credit in designated rural or low-income census tracts. EV chargers are eligible for a tax credit of 30% of the cost, not to exceed \$100,000. Consumers who purchase qualified residential chargers for installation at their principal residence in qualified locations may receive a tax credit of up to \$1,000.

<https://afdc.energy.gov/laws/10513>

- **PSEG Long Island Residential Charger Rebate**
 - Qualified PSEG Long Island customers can receive a \$200 rebate off a qualified ENERGY STAR® Certified Level 2 EV charger. Customers located in Disadvantaged Communities (DAC) can receive an additional \$100 – totaling \$300 in rebates. <https://www.psegliny.com/saveenergyandmoney/greenenergy/ev/chargerrebate>

- **PSEG Long Island Make Ready Programs and DC Fast Charging Credit for Businesses**
 - The EV Make Ready Program offers incentives for the infrastructure needed to power Level 2 and DCFC across Long Island. This program is available for all commercial customers including Multi-Unit Dwellings, Retail/Offices, Parking Facilities/Lots, and more. <https://www.psegliny.com/saveenergyandmoney/greenenergy/ev/commercialcustomers/makeready>

 - The Fleet Make Ready program is intended to support the development of EV charging infrastructure for public fleets and public transportation fleets. This includes light duty, medium duty, and heavy-duty vehicle segments. <https://www.psegliny.com/en/saveenergyandmoney/GreenEnergy/EV/FleetOwners/FleetMR>

 - The Direct Current Fast Charge incentive program offers an annual per-plug declining incentive to owner/operators of DCFC for public use on Long Island and in the Rockaways. <https://www.psegliny.com/saveenergyandmoney/GreenEnergy/EV/Basics/ChargingBasics/DCFC->

- **NYS Department of Environmental Conservation (DEC) Municipal ZEV Vehicle Rebate and Infrastructure Grant Programs**
 - Provides rebates and grants to cities, towns, villages, and counties for costs associated with the purchase or lease of eligible clean vehicles, and installation of eligible infrastructure that supports public use of clean vehicles. (Current funding round applications are due by February 28, 2025.) <https://dec.ny.gov/sites/default/files/2024-09/zevinrfa.pdf>

- **US Department of Transportation Charging and Fueling Infrastructure (CFI) Discretionary Grant Program**
 - Established by the Bipartisan Infrastructure Law, will provide \$2.5 billion over five years in competitive grants to a wide range of applicants, including cities, counties, local governments, and Tribes to strategically deploy EV charging and other alternative vehicle-fueling infrastructure projects in publicly accessible locations in urban and rural communities as well as along designated Alternative Fuel Corridors.
<https://www.fhwa.dot.gov/environment/cfi/>

Appendix D - Electric Vehicle Information Resources

1. Compare Electric Cars and Plug-in Hybrids by Features, Price, Range
<https://plugstar.com/>
2. Convenient charging options
<https://www.nyserda.ny.gov/All-Programs/Drive-Clean-Rebate-For-Electric-Cars-Program/Charging-Options>
3. US Department of Energy (DOE) Alternative Fuels Data Center (AFDC) – Alternative Fuels Station Locator
<https://afdc.energy.gov/stations/#/find/nearest?fuel=ELEC>
4. Electric Vehicle Charger Finder Apps – available on Google Play and the Apple App Store
 - PlugShare – <https://www.plugshare.com>
 - Chargeway – <https://www.chargeway.net>
5. US Department of Energy (DOE) Alternative Fuels Data Center (AFDC) – Electricity
<https://afdc.energy.gov/fuels/electricity.html>
6. Used Electric Vehicle Buyers Guide
<https://www.nyserda.ny.gov/Featured-Stories/Used-Electric-Vehicle-Buyers-Guide>
7. Drive Clean Rebate Program Dashboard
<https://www.nyserda.ny.gov/All-Programs/Drive-Clean-Rebate-For-Electric-Cars-Program/Rebate-Data/Rebate-Stats>
8. NYSERDA Electric Vehicle Registration Map and EValuateNY tool that compiles NYS statistics on the electric vehicle registrations and charging infrastructure.
<https://www.nyserda.ny.gov/All-Programs/ChargeNY/Support-Electric/Map-of-EV-Registrations>
9. PSEG Long Island Exploring Electric Vehicles
<https://www.psegliny.com/saveenergyandmoney/greenenergy/ev>
10. NYSERDA WattPlan EV Savings Calculator
<https://nyserda.wattplan.com/ev/>



About Drive Electric Long Island

The Drive Electric Long Island electric vehicle coalition is dedicated to encouraging and accelerating the adoption of electric vehicle usage and charging infrastructure on Long Island, through advocacy, education and outreach efforts to local municipalities, companies, residents and industry stakeholders.

For more information about the coalition or to download a copy of this report, visit our website at DriveElectricLongIsland.org