

NYSERDA Electric Vehicle Charging Infrastructure Report

Report period: January 2016 through March 2016

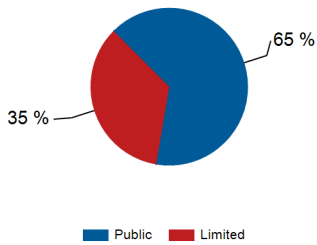
New York State



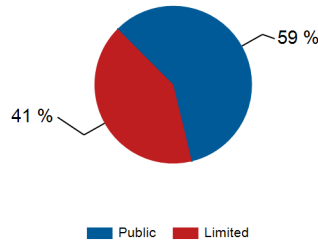
EVSE Usage - By Access Type

	Public	Limited ³	Total
Number of charging ports ¹	308	174	482
Number of charging events ²	9,140	4,883	14,023
Electricity consumed (AC MWh)	58.30	41.01	99.31
Percent of time with a vehicle connected	5.1%	9.2%	6.6%
Percent of time with a vehicle drawing power	2.8%	3.2%	2.9%

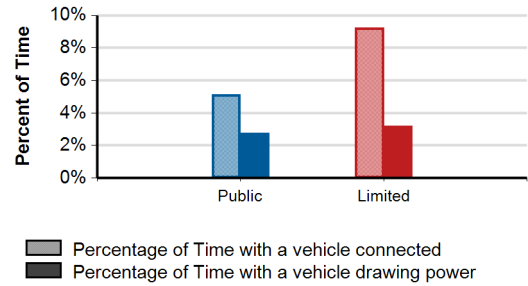
Number of Charging Events



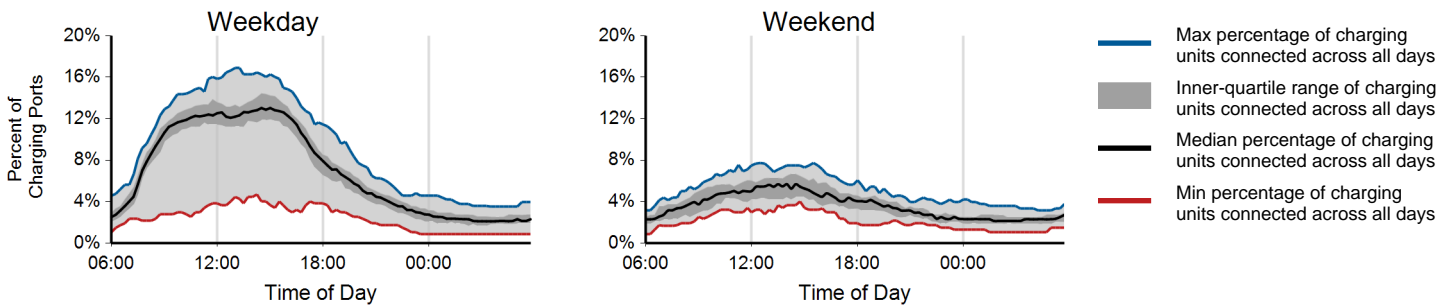
Electricity Consumed



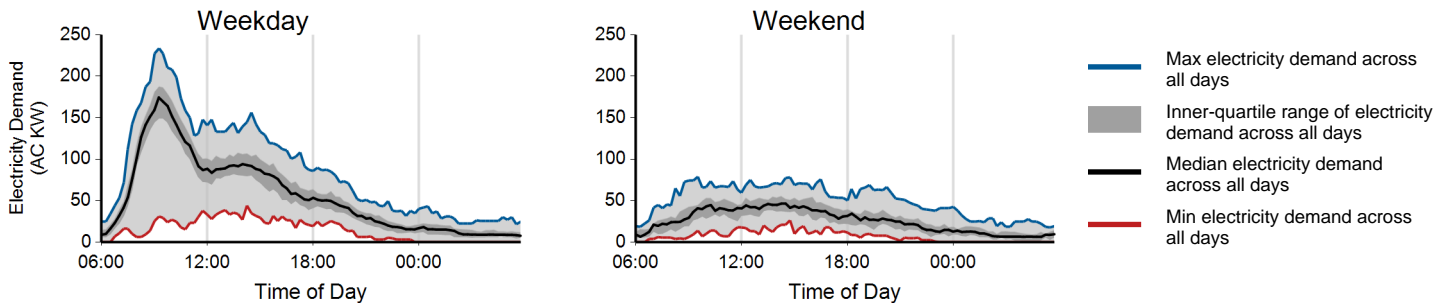
Charging Unit Utilization



Charging Availability: Range of Percentage of All Charging Ports with a Vehicle Connected versus Time of Day⁴



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴ for All Charging Ports



¹ Includes all EVSE ports in use during the reporting period and have reported data to INL.

² A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.

³ Limited Access EVSE are primarily for use by employees or tenants (including paying guests at hotels) and are placed where these EV drivers would normally park, but others (such as visitors or customers) may be able to plug in on a more limited basis.

⁴ Weekends start at 6:00am on Saturday and end 6:00am Monday local time.

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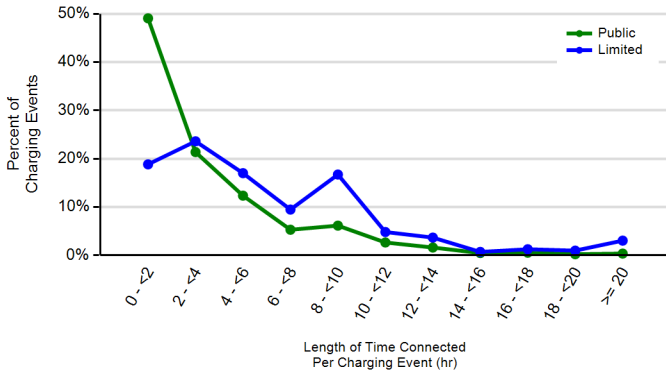
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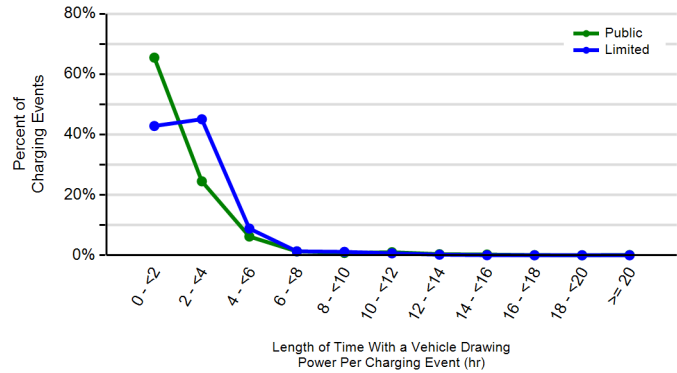
EVSE Usage - By Access Type

	Public	Limited ³
Number of charging ports ¹	308	174
Number of charging events ²	9,140	4,883
Charging energy consumed (AC MWh)	58.3	41.0
Average percent of time with a vehicle connected per charging port	5.1%	9.2%
Average percent of time with a vehicle drawing power per charging port	2.8%	3.2%
Average number of charging events started per charging port per week	2.3	2.2
Average electricity consumed per charging port per week (AC kWh)	14.9	18.7
Average length of time with vehicle connected per charging event (hr)	3.7	7.0
Average length of time with vehicle drawing power per charging event (hr)	2.0	2.4
Average electricity consumed per charging event (AC kWh)	6.4	8.4

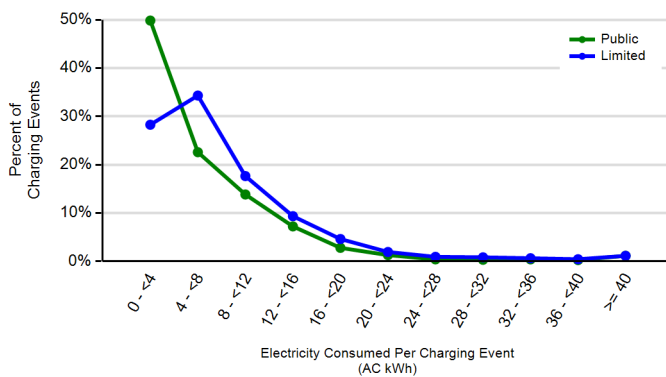
Distribution of Length of Time with a Vehicle Connected per Charging Event



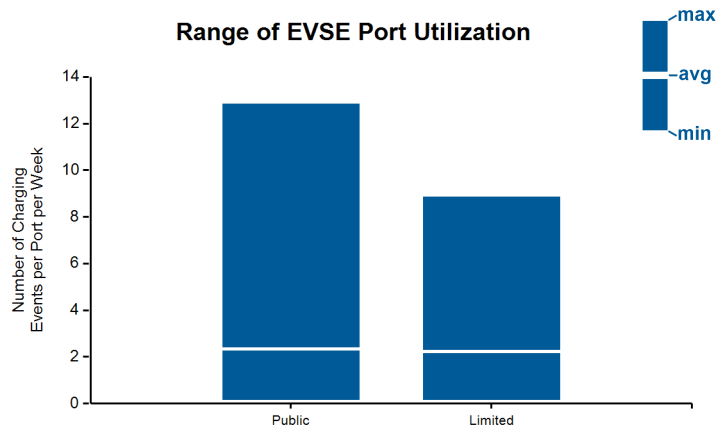
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



¹ Includes all EVSE ports in use during the reporting period and have reported data to INL.

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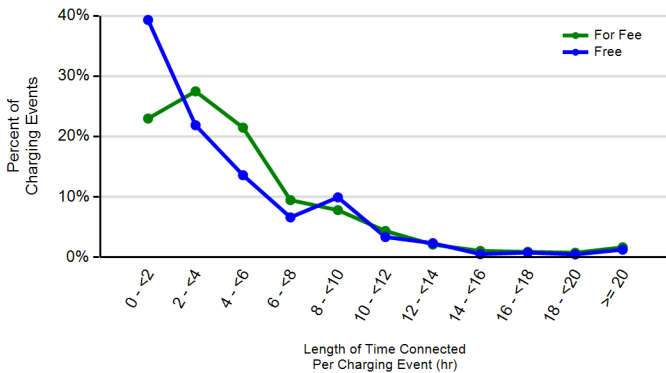
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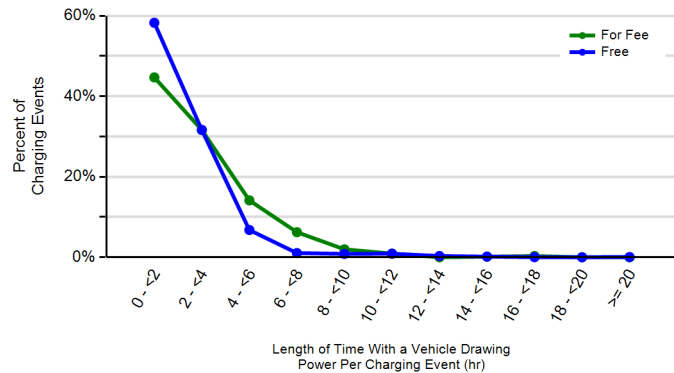
EVSE Usage - By Required Payment

	For Fee	Free
Number of charging ports ¹	58	424
Number of charging events ²	666	13,357
Charging energy consumed (AC MWh)	7.0	92.3
Average percent of time with a vehicle connected per charging port	3.5%	7.0%
Average percent of time with a vehicle drawing power per charging port	1.5%	3.1%
Average number of charging events started per charging port per week	0.9	2.5
Average electricity consumed per charging port per week (AC kWh)	9.4	17.2
Average length of time with vehicle connected per charging event (hr)	6.5	4.8
Average length of time with vehicle drawing power per charging event (hr)	2.7	2.1
Average electricity consumed per charging event (AC kWh)	10.5	6.9

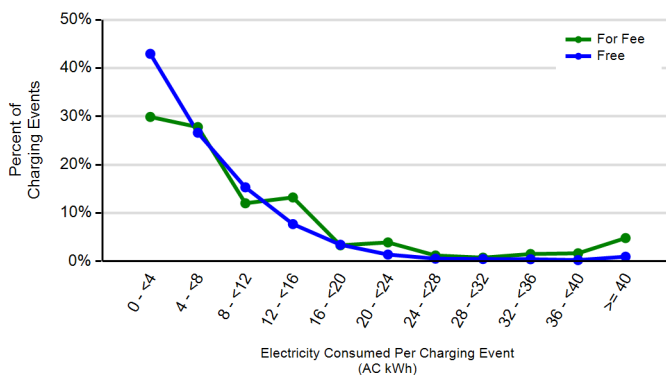
Distribution of Length of Time with a Vehicle Connected per Charging Event



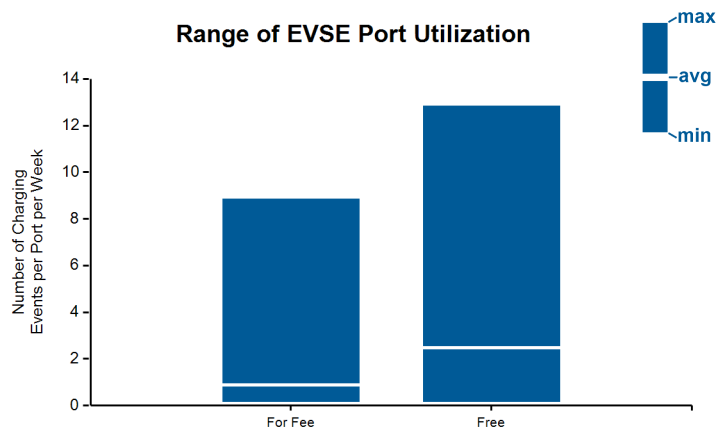
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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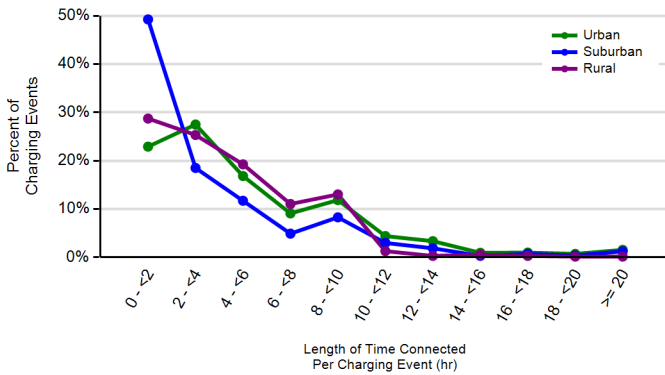
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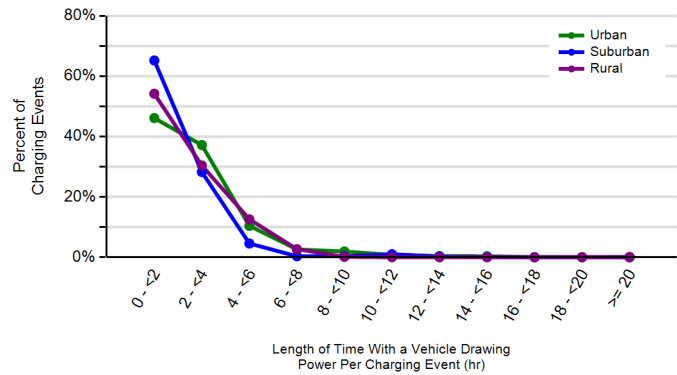
EVSE Usage - By Land Use Type

	Urban	Suburban	Rural
Number of charging ports ¹	171	273	38
Number of charging events ²	5,153	8,163	707
Charging energy consumed (AC MWh)	47.5	46.3	5.6
Average percent of time with a vehicle connected per charging port	8.5%	5.8%	3.6%
Average percent of time with a vehicle drawing power per charging port	3.8%	2.5%	1.9%
Average number of charging events started per charging port per week	2.4	2.4	1.5
Average electricity consumed per charging port per week (AC KWh)	21.7	13.4	11.4
Average length of time with vehicle connected per charging event (hr)	6.1	4.1	4.2
Average length of time with vehicle drawing power per charging event (hr)	2.7	1.8	2.2
Average electricity consumed per charging event (AC kWh)	9.2	5.7	7.9

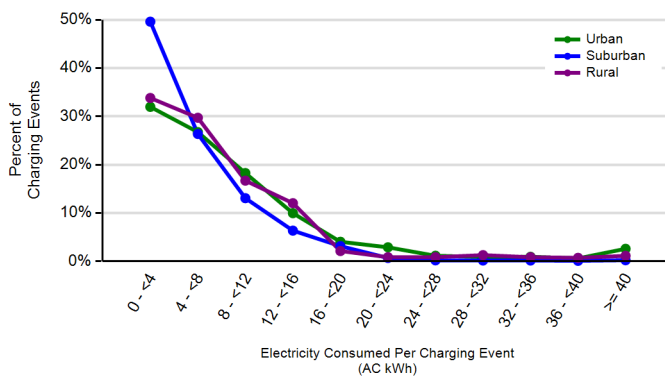
Distribution of Length of Time with a Vehicle Connected per Charging Event



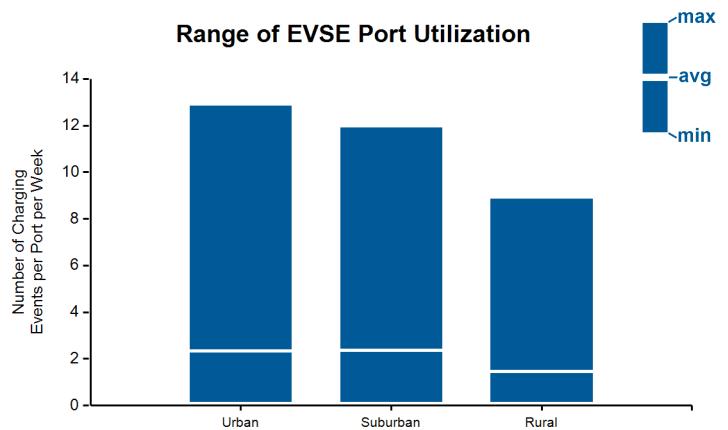
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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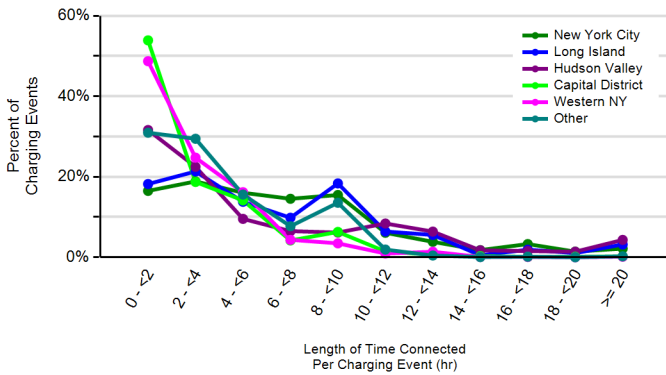
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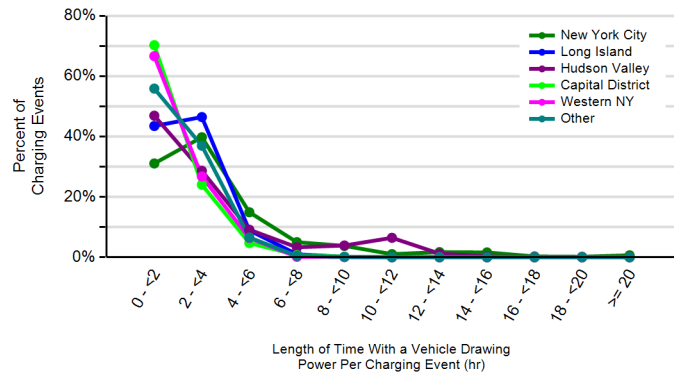
EVSE Usage - By Region

	New York City	Long Island	Hudson Valley	Capital District	Syracuse/Central NY	Rochester/Finger Lakes	Mohawk Valley	North Country	Western NY	Southern Tier
Number of charging ports ¹	77	60	91	101	19	42	10	23	48	11
Number of charging events ²	1,067	2,017	1,740	4,768	293	2,009	77	484	1,386	182
Charging energy consumed (AC MWh)	13.6	16.0	17.8	25.1	1.8	12.9	0.5	2.5	7.8	1.3
Average percent of time with a vehicle connected per charging port	6.4%	12.1%	6.4%	6.2%	2.5%	10.0%	0.9%	2.2%	4.0%	2.2%
Average percent of time with a vehicle drawing power per charging port	2.5%	3.5%	2.9%	3.4%	1.3%	4.6%	0.7%	1.4%	2.4%	1.6%
Average number of charging events started per charging port per week	1.1	2.6	1.5	3.7	1.2	3.7	0.7	1.6	2.3	1.5
Average electricity consumed per charging port per week (AC kWh)	13.9	20.8	15.6	19.4	7.5	23.9	3.9	8.3	12.8	10.3
Average length of time with vehicle connected per charging event (hr)	9.9	7.8	7.0	2.8	3.5	4.5	2.3	2.2	2.9	2.5
Average length of time with vehicle drawing power per charging event (hr)	3.9	2.2	3.3	1.6	1.9	2.1	1.7	1.5	1.8	1.8
Average electricity consumed per charging event (AC kWh)	12.8	7.9	10.2	5.3	6.2	6.4	6.0	5.1	5.6	7.0

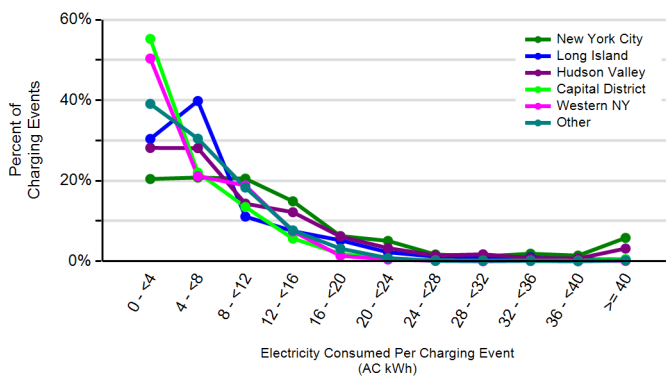
Distribution of Length of Time with a Vehicle Connected per Charging Event⁴



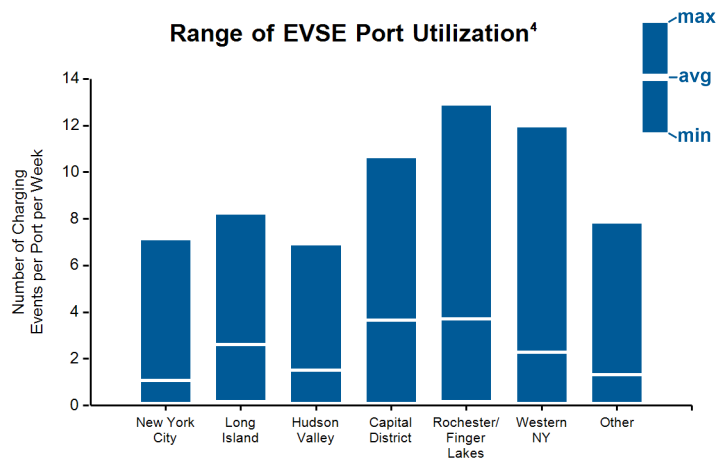
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event⁴



Distribution of AC Energy Consumed per Charging Event⁴



Range of EVSE Port Utilization⁴



¹ Includes all EVSE ports in use during the reporting period and have reported data to INL.

² A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.

³ Regions with less than 10 EVSE ports are not individually represented, and are combined and reported as 'Other'.

⁴ Only 5 or 6 regions with the most EVSE ports are individually represented, with the remaining regions combined and shown as 'Other'.

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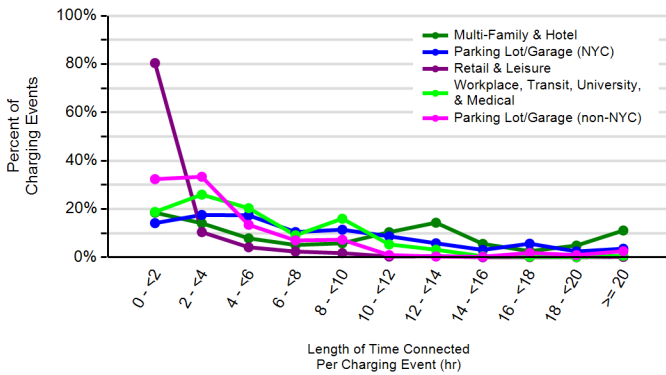


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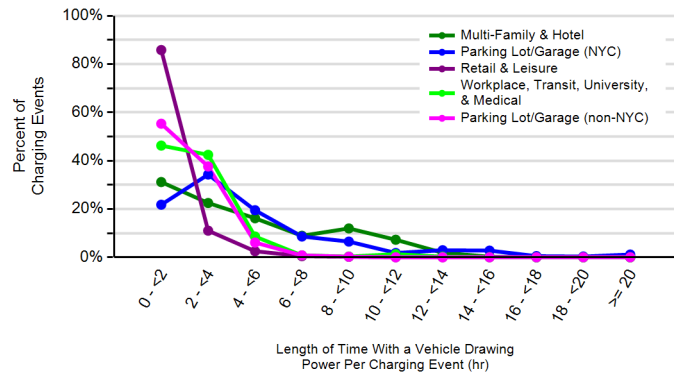
EVSE Usage - By Venue

	Parking Lot/Garage (non-NYC)	Parking Lot/Garage (NYC)	Retail Location	Workplace	Multi-Family	Hotel	University or Medical Campus	Leisure Destination	Transit Station
Number of charging ports ¹	72	61	83	64	15	24	111	20	32
Number of charging events ²	2,551	622	3,693	1,418	288	145	4,585	289	432
Charging energy consumed (AC MWh)	16.7	10.6	12.7	10.4	5.8	1.8	34.8	2.5	4.0
Average percent of time with a vehicle connected per charging port	8.2%	4.8%	2.6%	4.7%	12.9%	1.5%	12.1%	3.2%	4.5%
Average percent of time with a vehicle drawing power per charging port	3.3%	2.4%	2.0%	2.4%	4.6%	0.9%	4.4%	1.5%	2.9%
Average number of charging events started per charging port per week	2.8	0.8	3.5	1.8	1.5	0.5	3.3	1.1	1.1
Average electricity consumed per charging port per week (AC kWh)	18.1	13.7	11.9	13.2	30.2	5.8	24.8	9.7	9.7
Average length of time with vehicle connected per charging event (hr)	5.0	10.1	1.3	4.3	14.5	5.4	6.3	4.8	7.1
Average length of time with vehicle drawing power per charging event (hr)	2.0	5.0	1.0	2.2	5.2	3.2	2.3	2.3	4.6
Average electricity consumed per charging event (AC kWh)	6.5	17.1	3.4	7.3	20.3	12.3	7.6	8.7	9.2

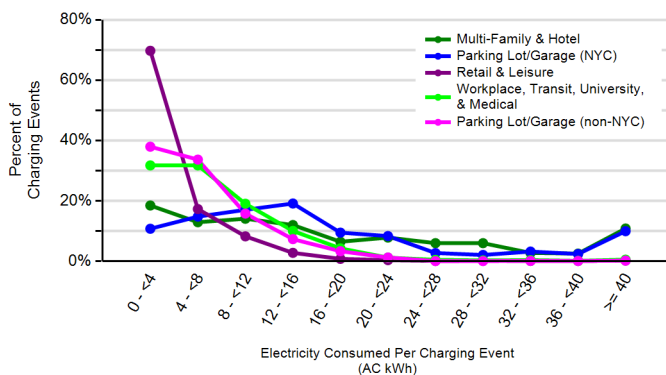
Distribution of Length of Time with a Vehicle Connected per Charging Event



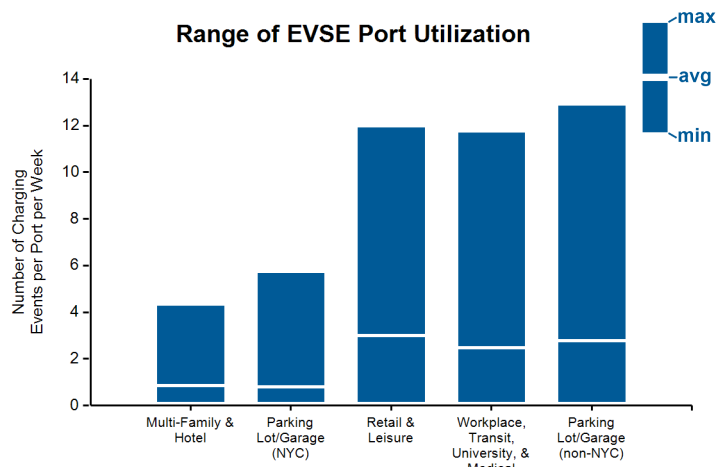
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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