NYSERDA Electric Vehicle Charging Infrastructure Report

NEW YORK STATE OF OPPORTUNITY. NYSERDA

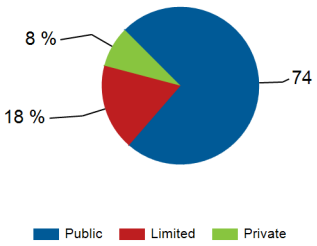
Report period: January 2015 through March 2015

New York State

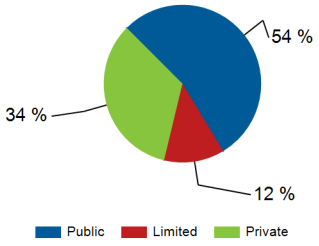
EVSE Usage - By Access Type

	Public	Limited[3]	Private	Total
Number of charging ports[1]	226	80	30	336
Number of charging events[2]	5,518	1,323	628	7,469
Electricity consumed (AC MWh)	36.55	8.45	22.91	67.91
Percent of time with a vehicle connected	4.7%	3.1%	47.8%	8.0%
Percent of time with a vehicle drawing power	2.3%	1.6%	46.1%	6.0%

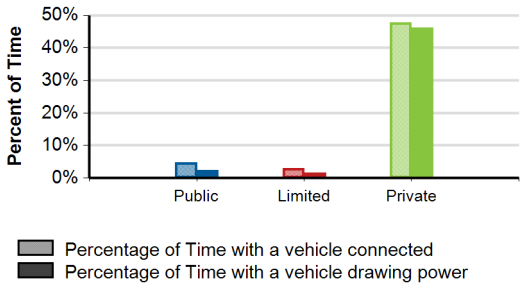
Number of Charging Events



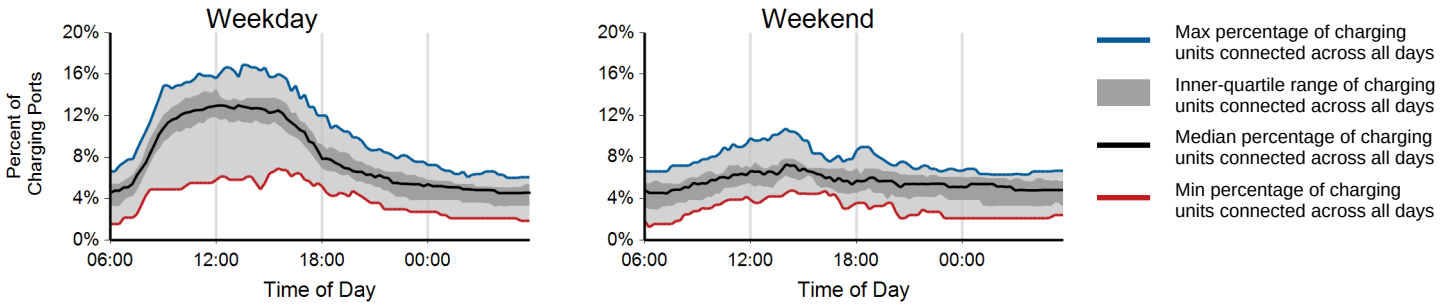
Electricity Consumed



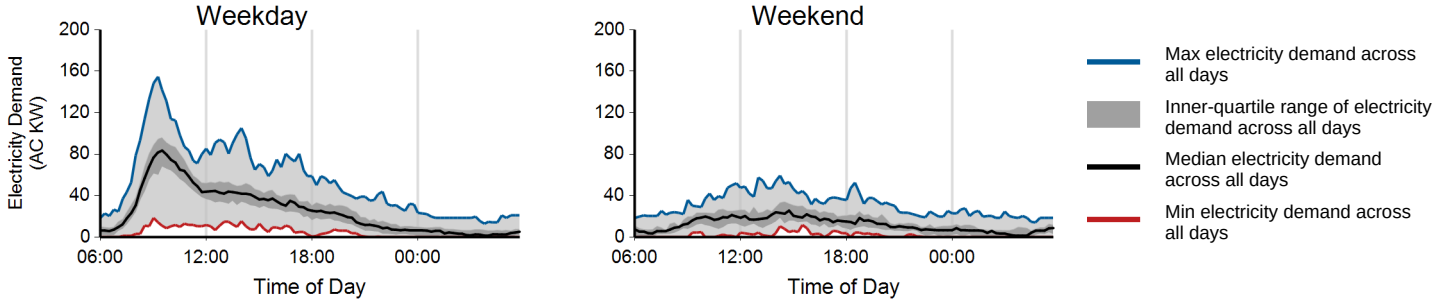
Charging Unit Utilization



Charging Availability: Range of Percentage of All Charging Ports with a Vehicle Connected versus Time of Day[4]



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day[4] for All Charging Ports



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

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[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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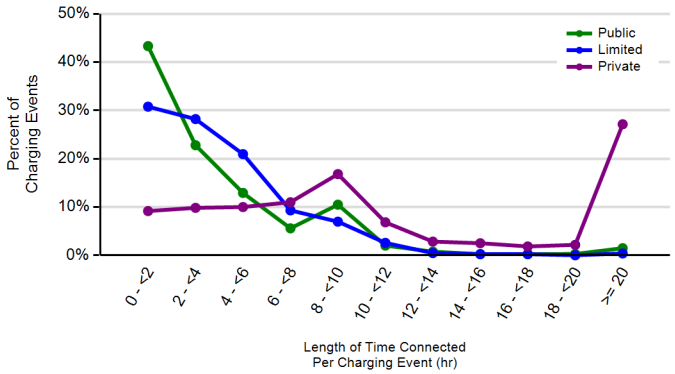
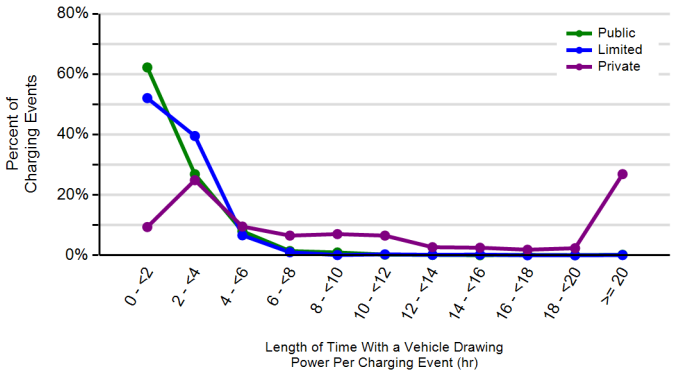
Charging energy consumed (AC MWh)	36.6	8.4	22.9
Average percent of time with a vehicle connected per charging port	4.7%	3.1%	47.8%
Average percent of time with a vehicle drawing power per charging port	2.3%	1.6%	46.1%
Average number of charging events started per charging port per week	1.9	1.3	1.7
Average electricity consumed per charging port per week (AC KWh)	12.7	8.2	61.8
Average length of time with vehicle connected per charging event (hr)	4.1	4.0	47.5
Average length of time with vehicle drawing power per charging event (hr)	2.1	2.1	45.8
Average electricity consumed per charging event (AC kWh)	6.6	6.4	36.5

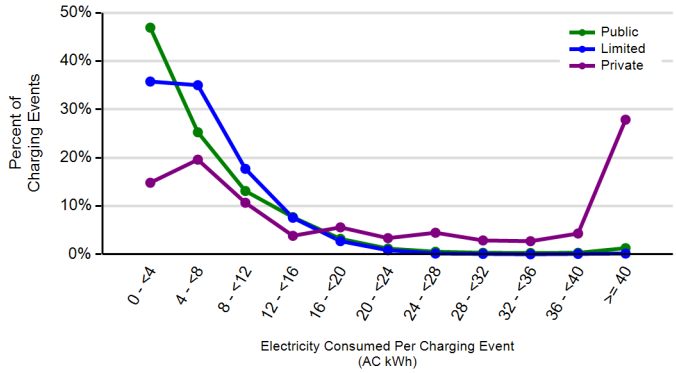
Distribution of Length of Time with a Vehicle Connected per Charging Event



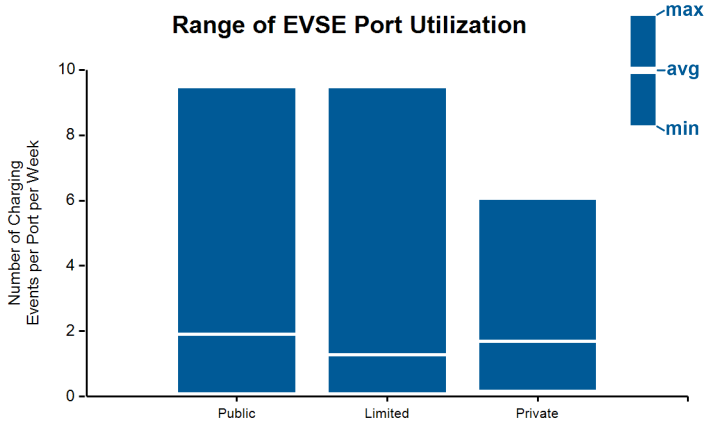
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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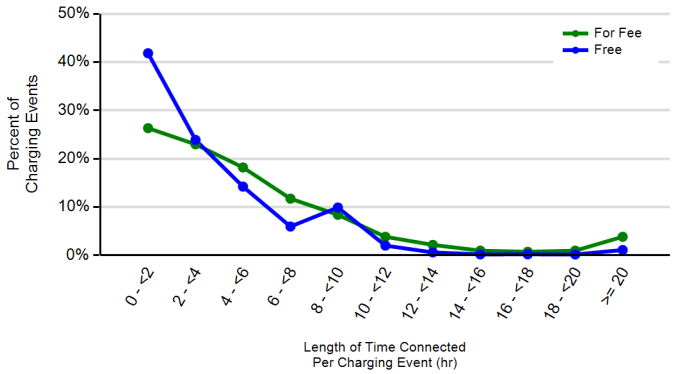
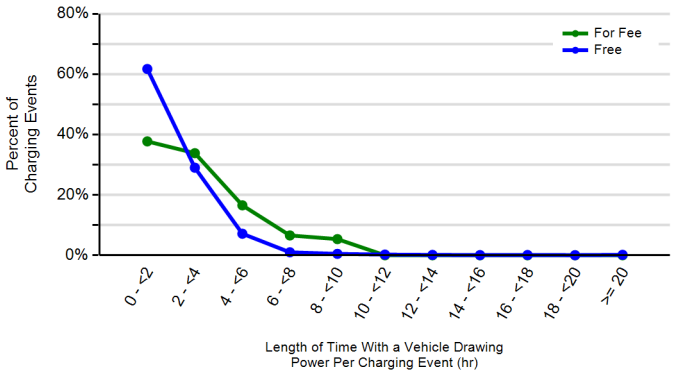
EVSE Usage - By Required Payment[3]

	For Fee	Free
Number of charging ports[1]	51	255
Number of charging events[2]	418	6,423
Charging energy consumed (AC MWh)	5.8	39.2
Average percent of time with a vehicle connected per charging port	2.7%	4.6%
Average percent of time with a vehicle drawing power per charging port	1.2%	2.4%
Average number of charging events started per charging port per week	0.7	2.0
Average electricity consumed per charging port per week (AC KWh)	9.0	12.0
Average length of time with vehicle connected per charging event (hr)	7.1	3.9
Average length of time with vehicle drawing power per charging event (hr)	3.1	2.0
Average electricity consumed per charging event (AC kWh)	13.9	6.1

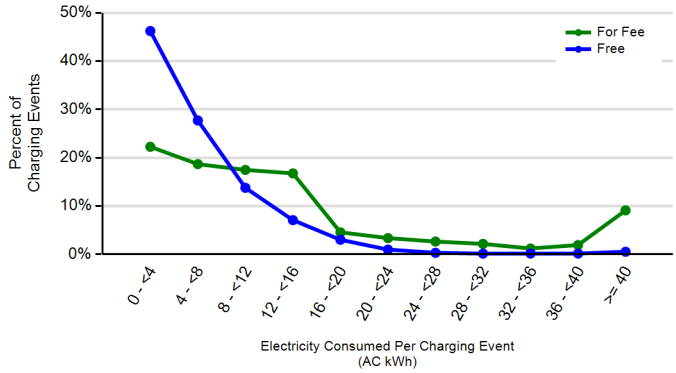
Distribution of Length of Time with a Vehicle Connected per Charging Event



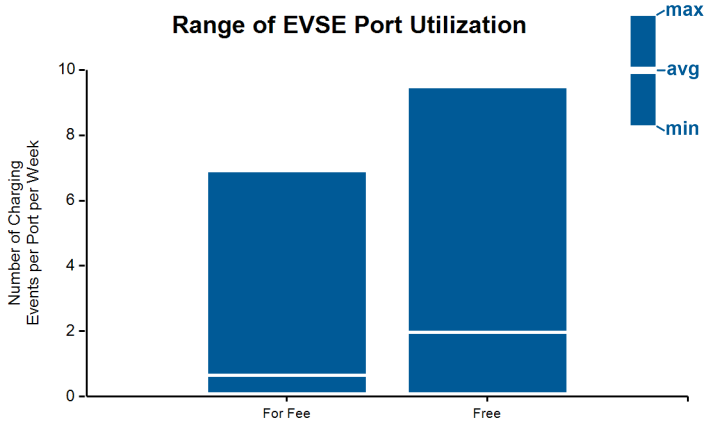
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



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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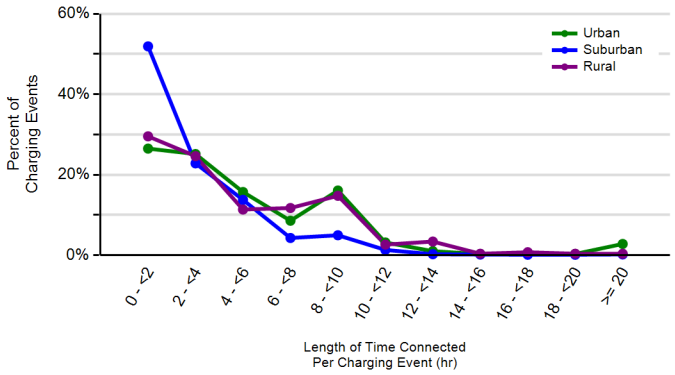
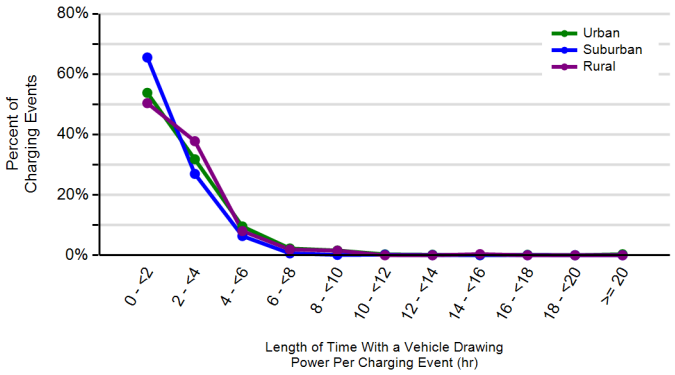
EVSE Usage - By Land Use Type[3]

	Urban	Suburban	Rural
Number of charging ports[1]	111	168	27
Number of charging events[2]	2,736	3,841	264
Charging energy consumed (AC MWh)	21.5	21.4	2.1
Average percent of time with a vehicle connected per charging port	6.6%	3.1%	2.2%
Average percent of time with a vehicle drawing power per charging port	2.8%	1.9%	1.0%
Average number of charging events started per charging port per week	1.9	1.8	0.8
Average electricity consumed per charging port per week (AC KWh)	15.2	10.0	6.1
Average length of time with vehicle connected per charging event (hr)	5.8	2.9	4.8
Average length of time with vehicle drawing power per charging event (hr)	2.5	1.8	2.3
Average electricity consumed per charging event (AC kWh)	7.8	5.6	8.0

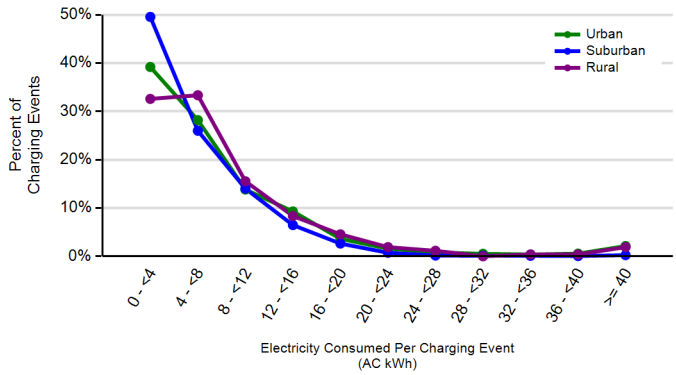
Distribution of Length of Time with a Vehicle Connected per Charging Event



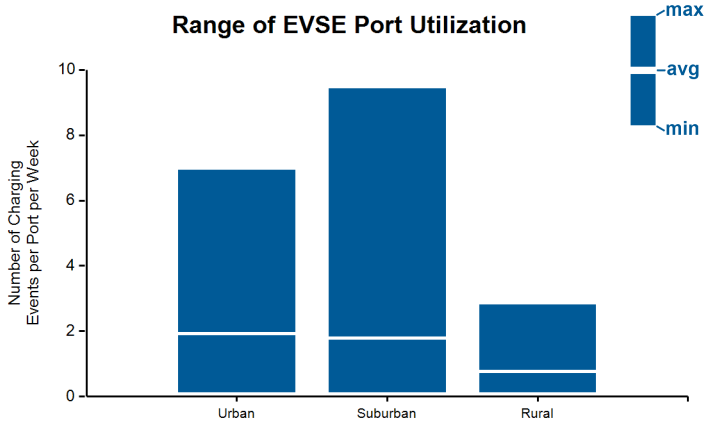
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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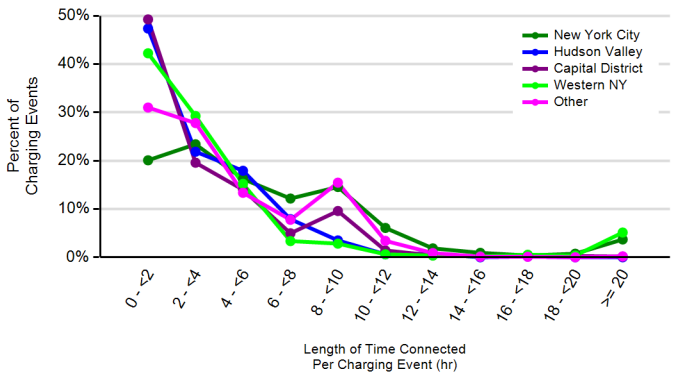
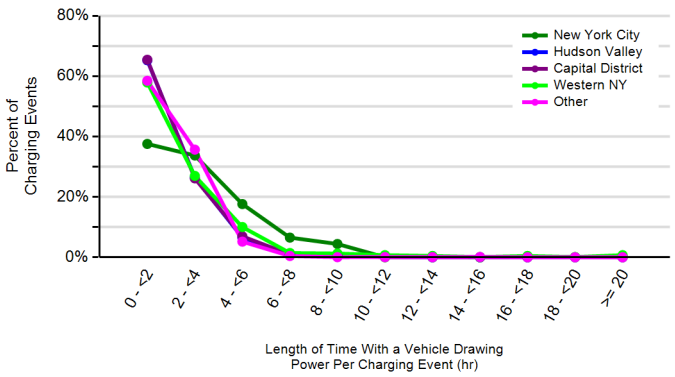
EVSE Usage - By Region[3]

	New York City	Long Island	Hudson Valley	Capital District	Syracuse/Central NY	Rochester/Finger Lakes	North Country	Western NY	Other[4]
Number of charging ports[1]	47	22	33	86	14	27	19	45	13
Number of charging events[2]	543	430	659	2,559	107	1,038	219	1,132	154
Charging energy consumed (AC MWh)	7.0	2.8	3.3	15.0	0.8	6.0	1.2	8.1	0.9
Average percent of time with a vehicle connected per charging port	4.0%	3.3%	2.8%	4.5%	1.1%	9.0%	1.4%	5.6%	2.4%
Average percent of time with a vehicle drawing power per charging port	1.6%	1.7%	1.7%	2.5%	0.9%	3.8%	0.9%	3.0%	1.0%
Average number of charging events started per charging port per week	0.9	1.5	1.6	2.3	0.6	3.1	0.9	2.0	0.9
Average electricity consumed per charging port per week (AC KWh)	11.6	10.0	7.9	13.6	4.3	17.5	4.8	13.9	5.5
Average length of time with vehicle connected per charging event (hr)	7.5	3.6	3.0	3.2	3.0	5.0	2.5	4.8	1.9
Average length of time with vehicle drawing power per charging event (hr)	3.0	1.8	1.8	1.8	2.6	2.1	1.6	2.6	4.3
Average electricity consumed per charging event (AC kWh)	12.9	6.5	5.0	5.9	7.2	5.7	5.3	7.1	6.0

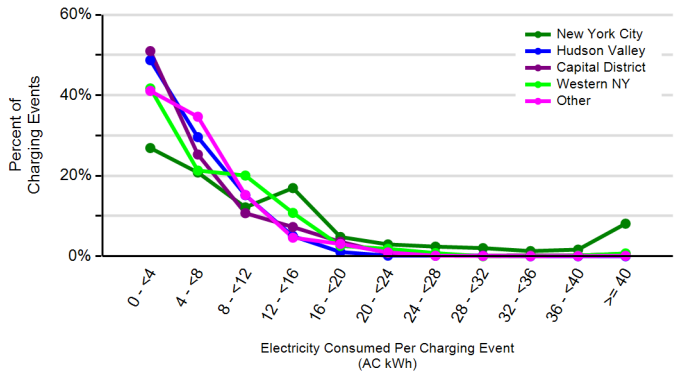
Distribution of Length of Time with a Vehicle Connected per Charging Eventâµ



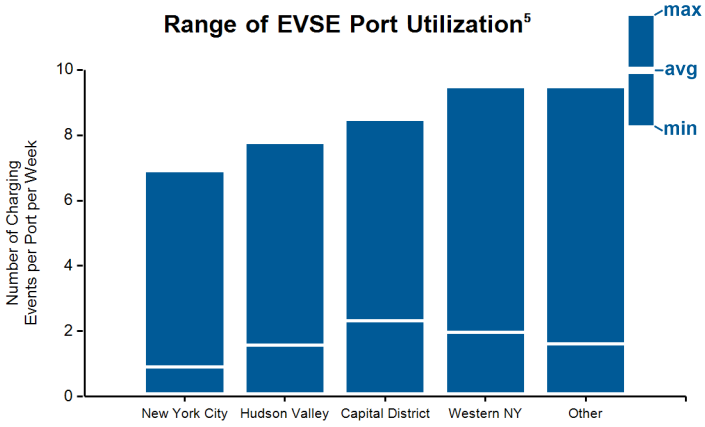
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event[5]



Distribution of AC Energy Consumed per Charging Eventâµ



Range of EVSE Port Utilization[5]



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

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

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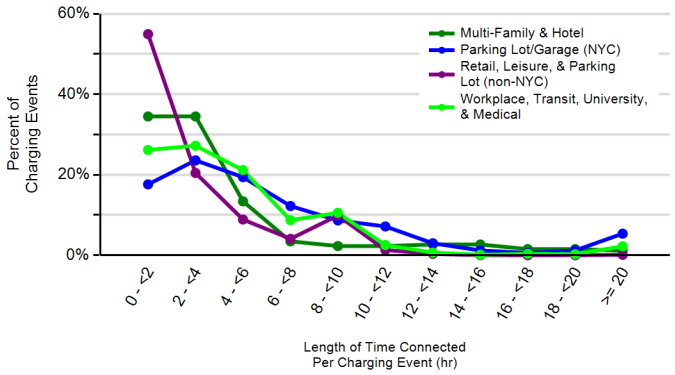
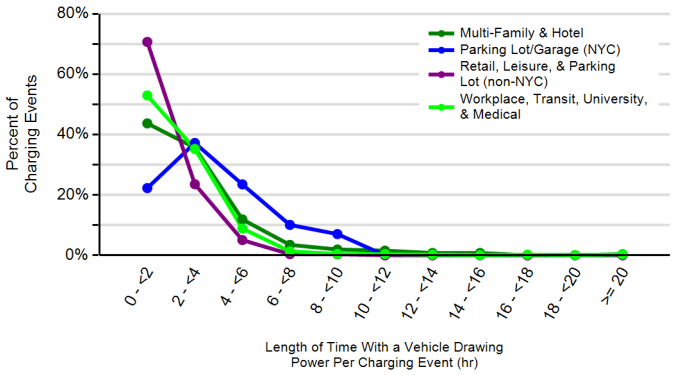
EVSE Usage - By Venue[3]

	Parking Lot/Garage (non-NYC)	Parking Lot/Garage (NYC)	Retail Location	Workplace	Hotel	University or Medical Campus	Leisure Destination	Transit Station
Number of charging ports[1]	40	39	60	49	27	61	13	13
Number of charging events[2]	1,466	335	1,761	952	243	1,728	296	42
Charging energy consumed (AC MWh)	8.2	5.9	8.0	6.7	2.4	11.5	1.8	0.2
Average percent of time with a vehicle connected per charging port	7.3%	3.5%	2.2%	5.9%	1.9%	5.6%	4.3%	0.8%
Average percent of time with a vehicle drawing power per charging port	3.4%	1.5%	1.8%	2.5%	1.2%	2.8%	2.0%	0.6%
Average number of charging events started per charging port per week	2.9	0.7	2.3	1.5	0.7	2.2	1.8	0.3
Average electricity consumed per charging port per week (AC KWh)	16.3	11.9	10.4	10.6	7.1	14.6	10.7	1.3
Average length of time with vehicle connected per charging event (hr)	4.3	8.7	1.6	6.5	4.6	4.2	4.0	5.3
Average length of time with vehicle drawing power per charging event (hr)	2.0	3.6	1.3	2.8	2.9	2.1	1.9	3.6
Average electricity consumed per charging event (AC kWh)	5.6	17.7	4.6	7.0	10.1	6.6	6.1	5.1

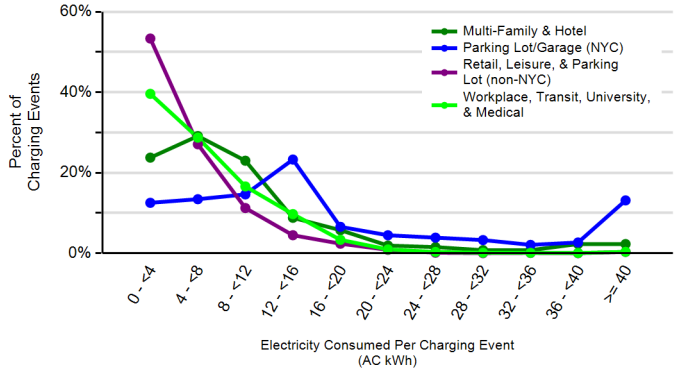
Distribution of Length of Time with a Vehicle Connected per Charging Event



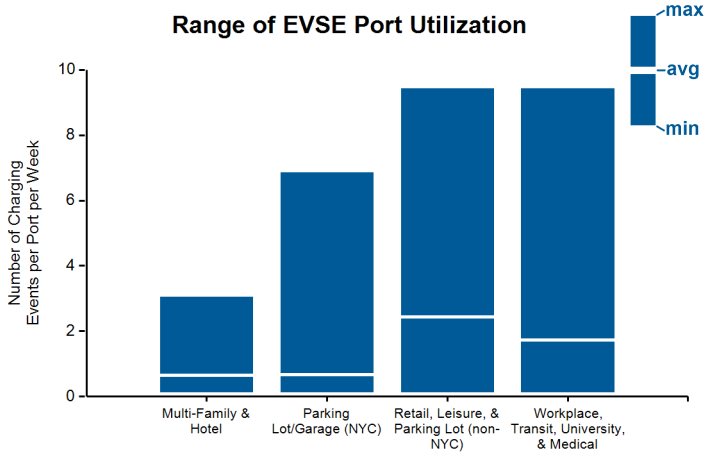
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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