

NYSERDA Electric Vehicle Charging Infrastructure Report



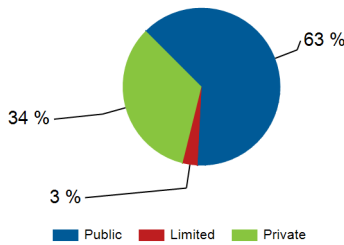
Report period: January 2014 through March 2014

New York State

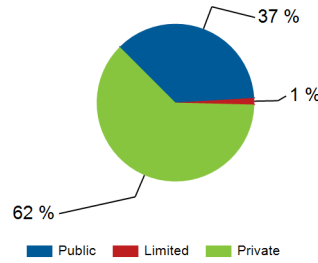
EVSE Usage - By Access Type

	Public	Limited ³	Private	Total
Number of charging ports ¹	163	16	28	207
Number of charging events ²	2,343	113	1,244	3,700
Electricity consumed (AC MWh)	19.64	0.73	33.40	53.76
Percent of time with a vehicle connected	4.2%	2.6%	40.4%	8.8%
Percent of time with a vehicle drawing power	1.9%	1.1%	38.3%	6.5%

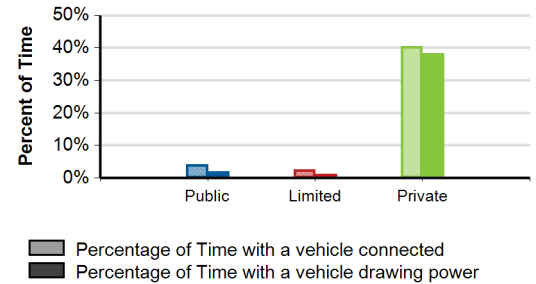
Number of Charging Events



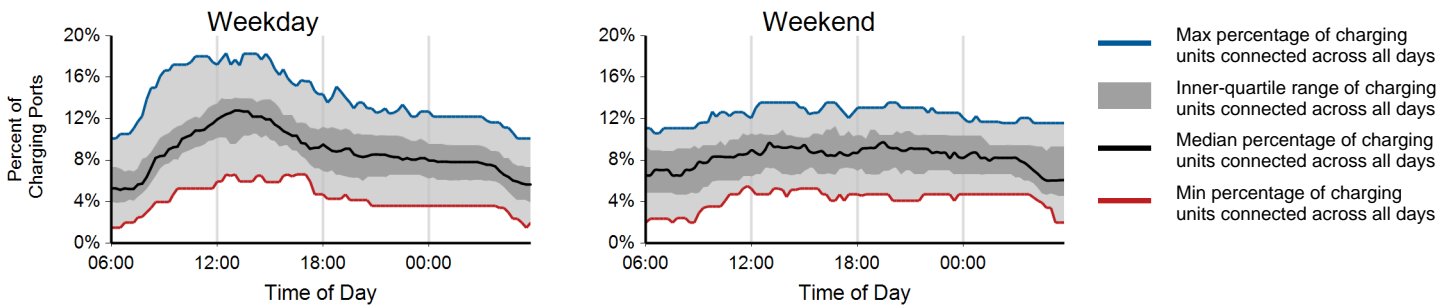
Electricity Consumed



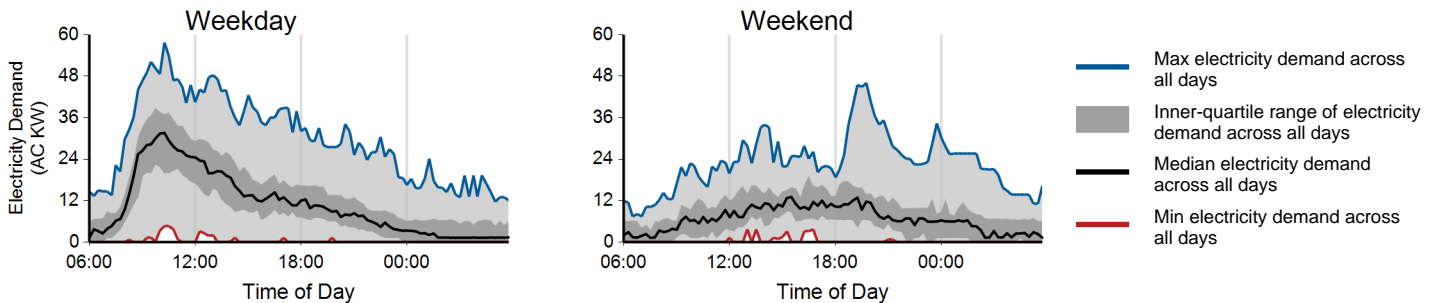
Charging Unit Utilization



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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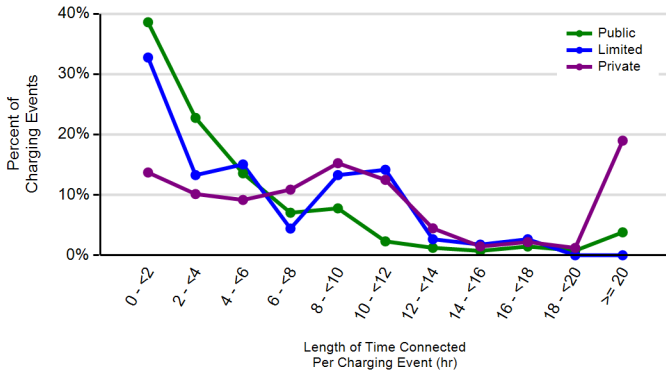


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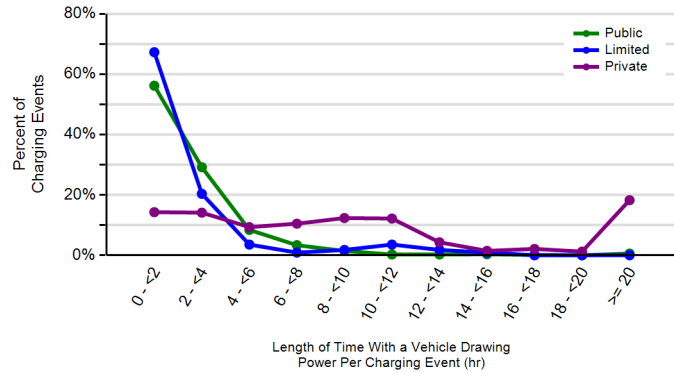
EVSE Usage - By Access Type

	Public	Limited ³	Private
Number of charging ports ¹	163	16	28
Number of charging events ²	2,343	113	1,244
Charging energy consumed (AC MWh)	19.6	0.7	33.4
Average percent of time with a vehicle connected per charging port	4.2%	2.6%	40.4%
Average percent of time with a vehicle drawing power per charging port	1.9%	1.1%	38.3%
Average number of charging events started per charging port per week	1.3	0.8	4.2
Average electricity consumed per charging port per week (AC kWh)	10.5	5.1	111.6
Average length of time with vehicle connected per charging event (hr)	5.7	5.5	16.3
Average length of time with vehicle drawing power per charging event (hr)	2.5	2.4	15.5
Average electricity consumed per charging event (AC kWh)	8.4	6.4	26.8

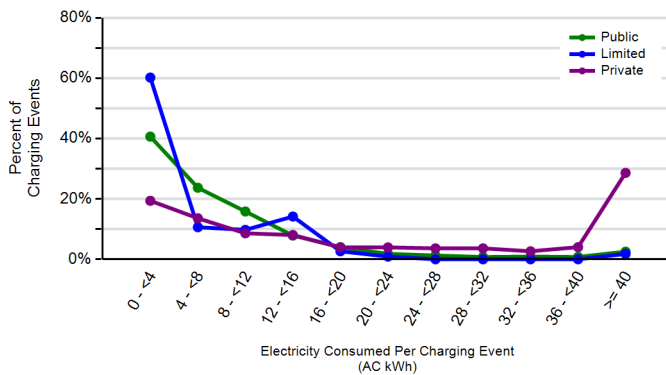
Distribution of Length of Time with a Vehicle Connected per Charging Event



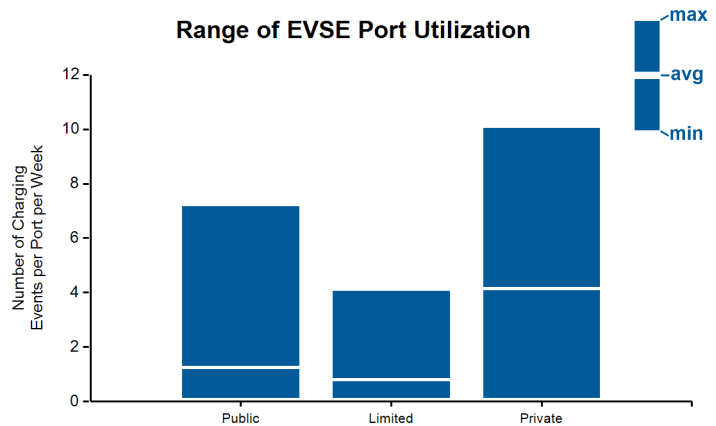
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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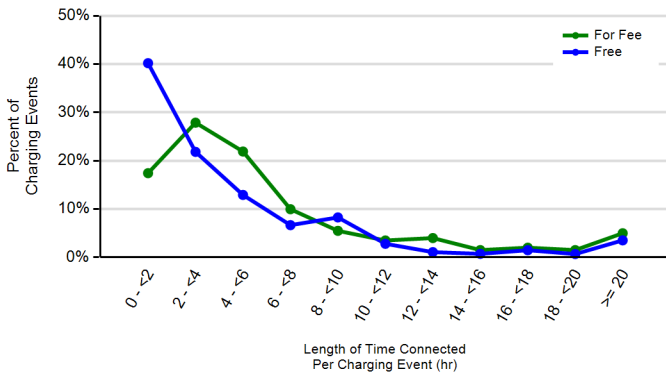


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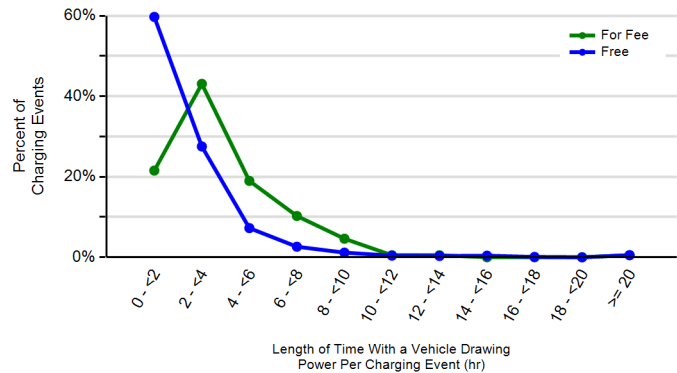
EVSE Usage - By Required Payment³

	For Fee	Free
Number of charging ports ¹	31	148
Number of charging events ²	201	2,255
Charging energy consumed (AC MWh)	4.1	16.3
Average percent of time with a vehicle connected per charging port	3.1%	4.3%
Average percent of time with a vehicle drawing power per charging port	1.3%	2.0%
Average number of charging events started per charging port per week	0.6	1.4
Average electricity consumed per charging port per week (AC kWh)	11.4	9.8
Average length of time with vehicle connected per charging event (hr)	9.2	5.3
Average length of time with vehicle drawing power per charging event (hr)	3.8	2.4
Average electricity consumed per charging event (AC kWh)	20.3	7.2

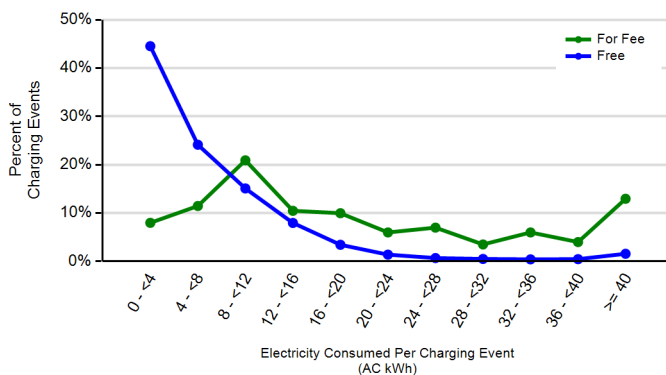
Distribution of Length of Time with a Vehicle Connected per Charging Event



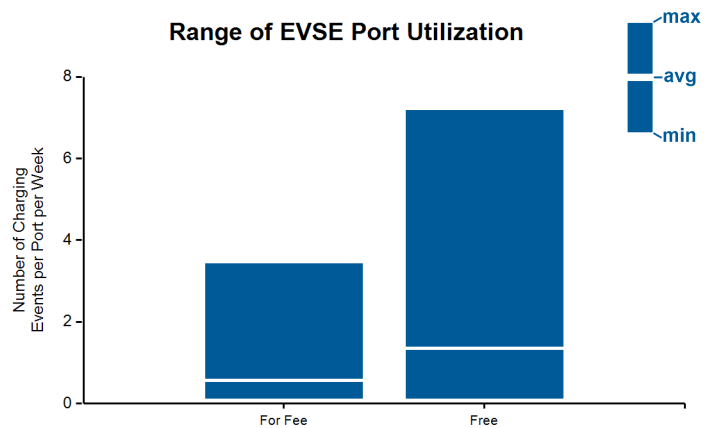
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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

³ Only includes data from EVSE providing Public or Limited access.

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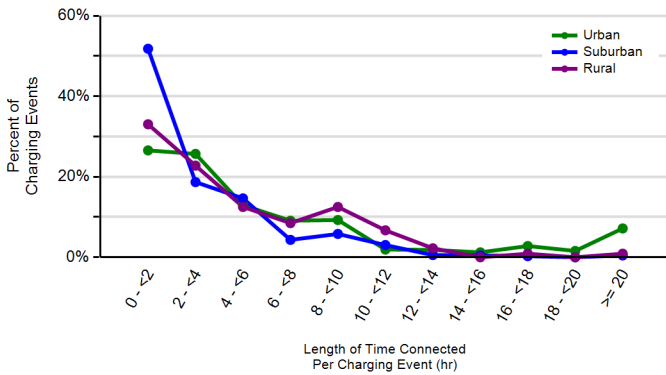
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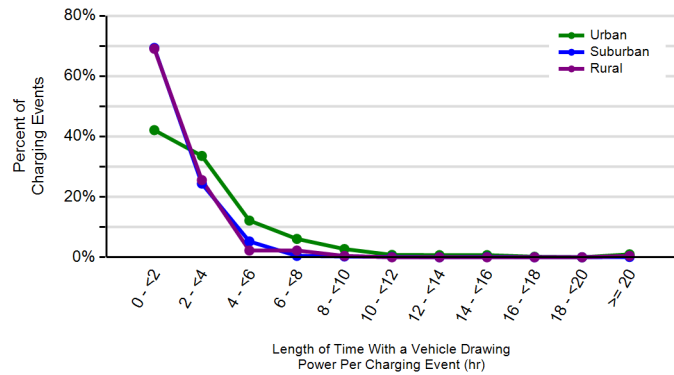
EVSE Usage - By Land Use Type³

	Urban	Suburban	Rural
Number of charging ports ¹	78	78	23
Number of charging events ²	1,145	1,087	224
Charging energy consumed (AC MWh)	13.1	6.0	1.3
Average percent of time with a vehicle connected per charging port	6.2%	2.5%	2.5%
Average percent of time with a vehicle drawing power per charging port	2.6%	1.3%	1.1%
Average number of charging events started per charging port per week	1.3	1.3	0.8
Average electricity consumed per charging port per week (AC kWh)	15.0	6.9	4.8
Average length of time with vehicle connected per charging event (hr)	8.0	3.3	5.1
Average length of time with vehicle drawing power per charging event (hr)	3.3	1.8	2.2
Average electricity consumed per charging event (AC kWh)	11.4	5.5	5.9

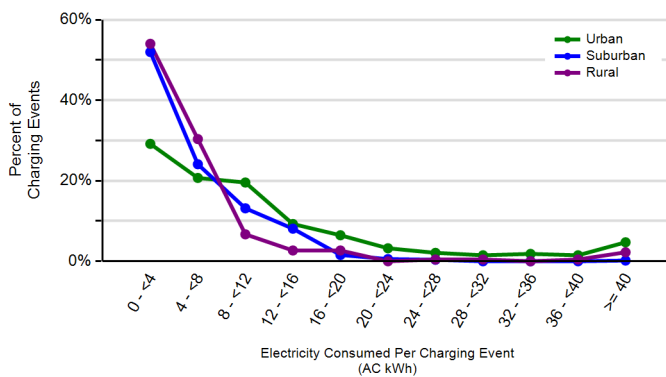
Distribution of Length of Time with a Vehicle Connected per Charging Event



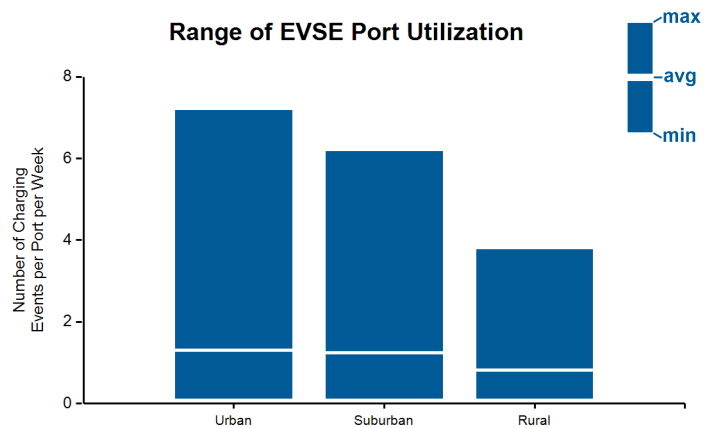
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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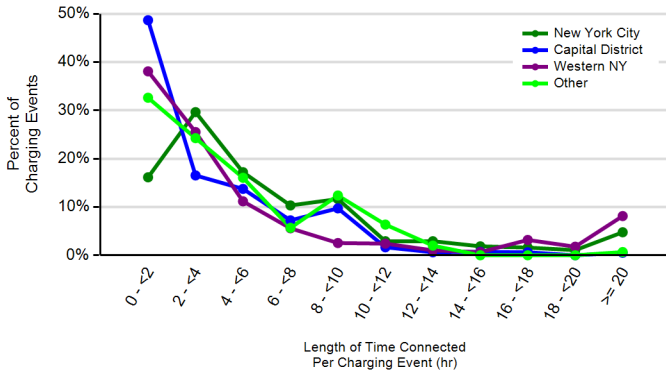
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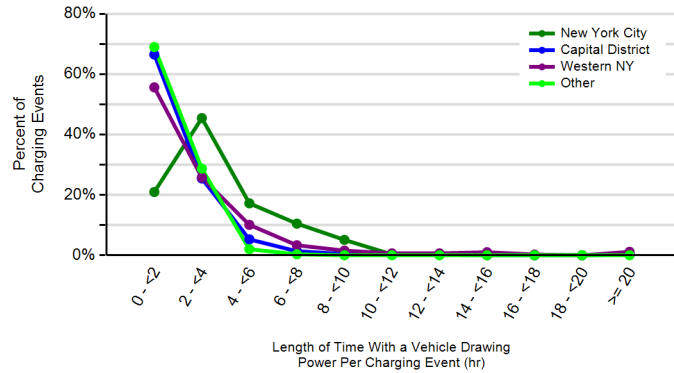
EVSE Usage - By Region³

	New York City	Capital District	Syracuse/Central NY	Western NY	Other ⁴
Number of charging ports ¹	44	63	10	34	28
Number of charging events ²	378	968	59	788	263
Charging energy consumed (AC MWh)	7.3	5.7	0.3	5.8	1.2
Average percent of time with a vehicle connected per charging port	4.4%	2.8%	0.7%	8.2%	0.9%
Average percent of time with a vehicle drawing power per charging port	1.7%	1.6%	0.5%	3.6%	3.0%
Average number of charging events started per charging port per week	0.8	1.3	0.5	2.1	1.0
Average electricity consumed per charging port per week (AC kWh)	15.1	7.6	2.7	15.1	4.5
Average length of time with vehicle connected per charging event (hr)	9.4	3.7	2.7	6.7	1.6
Average length of time with vehicle drawing power per charging event (hr)	3.6	2.0	1.9	3.0	5.2
Average electricity consumed per charging event (AC kWh)	19.3	5.9	5.9	7.4	4.6

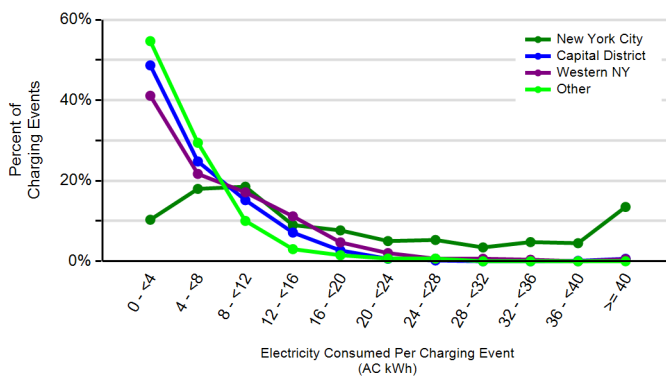
Distribution of Length of Time with a Vehicle Connected per Charging Event⁵



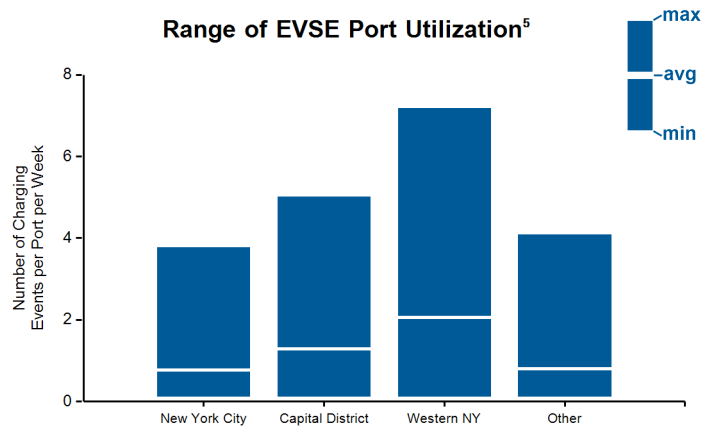
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event⁵



Distribution of AC Energy Consumed per Charging Event⁵



Range of EVSE Port Utilization⁵



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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 3 regions with the most EVSE ports are individually represented, with the remaining regions combined and shown as 'Other'.

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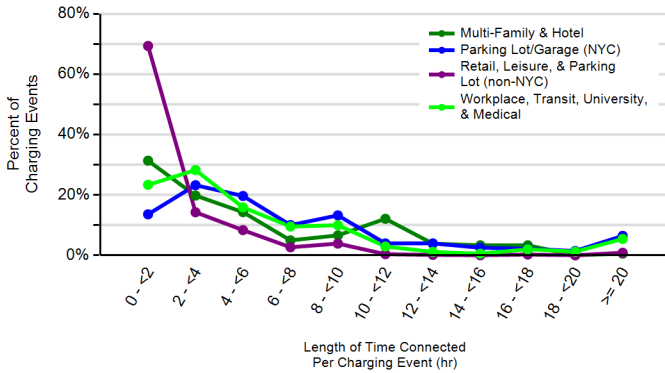
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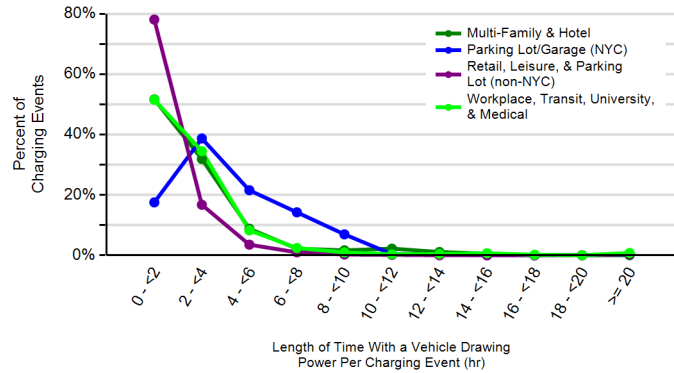
EVSE Usage - By Venue³

	Parking Lot/Garage (non-NYC)	Parking Lot/Garage (NYC)	Retail Location	Workplace	Hotel	University or Medical Campus	Leisure Destination
Number of charging ports ¹	12	38	43	10	24	39	10
Number of charging events ²	56	280	702	214	178	942	70
Charging energy consumed (AC MWh)	0.3	6.6	3.3	2.4	1.5	5.9	0.4
Average percent of time with a vehicle connected per charging port	2.4%	4.6%	1.7%	18.1%	2.2%	5.2%	1.8%
Average percent of time with a vehicle drawing power per charging port	1.0%	1.7%	1.2%	6.0%	1.1%	2.5%	1.2%
Average number of charging events started per charging port per week	0.7	0.7	1.3	1.9	0.7	2.0	0.6
Average electricity consumed per charging port per week (AC kWh)	4.0	15.7	6.2	21.4	5.6	12.3	3.3
Average length of time with vehicle connected per charging event (hr)	5.8	11.4	2.1	15.7	5.4	4.4	5.3
Average length of time with vehicle drawing power per charging event (hr)	2.5	4.1	1.5	5.2	2.7	2.1	3.4
Average electricity consumed per charging event (AC kWh)	5.8	23.4	4.8	11.0	8.2	6.2	5.6

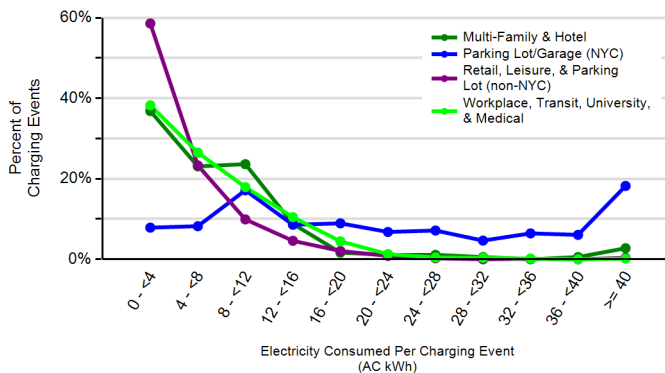
Distribution of Length of Time with a Vehicle Connected per Charging Event



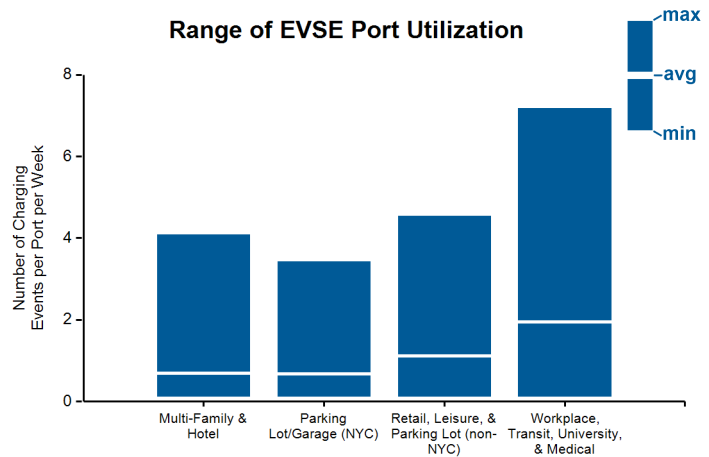
Distribution of Length of Time with a Vehicle Drawing Power per Charging Event



Distribution of AC Energy Consumed per Charging Event



Range of EVSE Port Utilization



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