ChargePoint [®]America Vehicle Charging Infrastructure Summary Report

Report Period: June 2012

Charging Unit - By State	Residential	Private Commercial	Public	Not Specified	Charging Units Installed to Date ¹	Number of Charging Events Performed ²	Electricity Consumed (AC MWh)
California	791	39	518	3	1,351	213,185	1,485.9
Connecticut	11	-	-	-	11	2,567	15.1
District of Columbia	-	16	16	-	32	718	5.4
Florida	43	10	228	2	283	9,309	55.2
Maryland	18	7	46	-	71	5,950	37.9
Massachusetts	23	7	74	-	104	4,120	35.5
Michigan	252	14	172	-	438	60,356	406.8
New Jersey	51	2	17	-	70	15,391	95.7
New York	23	88	102	-	213	17,345	139.4
Texas	51	9	227	-	287	17,724	114.3
Virginia	23	17	43	-	83	10,050	65.0
Washington	12	7	123	-	142	8,149	50.0
Total	1,298	216	1,566	5	3,085	364,864	2,506.3

ChargePoint America Charging Unit Distribution

Project to Date



 1 Includes all charging units that were in use by the end of the reporting period

 $^{\rm 2}$ A charging event is defined as the period when a vehicle is connected to a charging unit, during which period some power is transferred





ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: April 2012 through June 2012





Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



¹ Includes all charging units that were in use during the reporting period and have reported data to the INL

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





Residential Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events ²	72,883	28,270	101,153
Charging energy consumed (AC MWh)	529.5	174.4	703.8
Percent of time with a vehicle connected to EVSE	42.4%	50.6%	44.7%
Percent of time with a vehicle drawing power from EVSE	9.0%	7.4%	8.6%
Average number of charging events started per EVSE per day	0.89	0.85	0.88

Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



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





Residential Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	11.9	12.2	12.0
Average length of time with a vehicle drawing power per charging event (hr)	2.2	1.9	2.1
Average energy consumed per charging event (AC KWh)	7.27	6.17	6.96



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



Length of Time With a Vehicle Drawing Power Per Charging Event (Hr)

¹ Includes all charging units that were in use during the reporting period and have reported data to the INL

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





Distribution of AC Energy Consumed per Charging Event 25% WD WE 20% Percent of Charging Events 15% 10% 5% 0% 8. ×10 10, 572 A P13-21 14°. ▲ 9/ ₇ ▲ ⁹2 '≯ د. د جو 4 20 2. A Electricity Consumed Per Charging Event (KWh)

Commercial Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events ²	5,047	509	5,556
Charging energy consumed (AC MWh)	42.9	3.7	46.6
Percent of time with a vehicle connected to EVSE	21.9%	21.6%	21.8%
Percent of time with a vehicle drawing power from EVSE	5.7%	1.2%	4.5%
Average number of charging events started per EVSE per day	0.48	0.12	0.37

Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage





	Max percentage of charging units connected across all days
	Inner-quartile range of charging units connected across all days
-	Median percentage of charging units connected across all days
_	Min percentage of charging units connected across all days

Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



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





Commercial Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	14.0	12.2	13.8
Average length of time with a vehicle drawing power per charging event (hr)	2.6	2.2	2.6
Average energy consumed per charging event (AC KWh)	8.50	7.29	8.39

WD

WE



Length of Time Connected Per Charging Event (Hr)

Distribution of AC Energy

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



Length of Time With a Vehicle Drawing Power Per Charging Event (Hr)

Consumed per Charging Event 25% WD WE 20% Percent of Charging Events 15% 10% 5% A 013.8 0% د. جھ م 10, 572 15° ×14 14°. 516 ▲ 9/ ₇₇ ▲ ⁹2 '≯ 4 20 N N Electricity Consumed Per Charging Event (KWh)

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





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Public Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events ²	28,758	6,689	35,447
Charging energy consumed (AC MWh)	203.0	41.2	244.2
Percent of time with a vehicle connected to EVSE	7.5%	4.4%	6.6%
Percent of time with a vehicle drawing power from EVSE	3.3%	1.6%	2.9%
Average number of charging events started per EVSE per day	0.34	0.19	0.30

Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



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





Public Electric Vehicle Supply Equipment (EVSE)

Report period: April 2012 through June 2012

Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	2.9	2.2	2.7
Average length of time with a vehicle drawing power per charging event (hr)	1.3	1.0	1.2
Average energy consumed per charging event (AC KWh)	7.06	6.16	6.89



Per Charging Event (Hr)

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



Length of Time With a Vehicle Drawing Power Per Charging Event (Hr)

Distribution of AC Energy Consumed per Charging Event 25% WD WE 20% Percent of Charging Events 15% 10% 5% 0% 8. ×10 10, et2 15° ×14 ▲ ⁹2 '≯ د. د جو 1 913 . FI ▲ 9₂ ₇ 4 23 N N Electricity Consumed Per Charging Event (KWh)

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