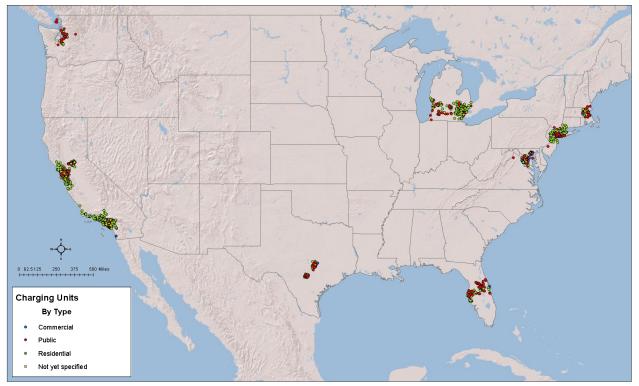
# ChargePoint <sup>®</sup>America Vehicle Charging Infrastructure Summary Report

Report Period: September 2012

Charging Unit - By State	Residential	Private Commercial	Public	Not Specified	Charging Units Installed to Date <sup>1</sup>	Number of Charging Events Performed <sup>2</sup>	Electricity Consumed (AC MWh)
California	1,074	43	659	8	1,784	326,459	2,318.6
Connecticut	12	-	-	-	12	3,451	22.6
District of Columbia	1	16	16	-	33	1,150	8.5
Florida	67	14	257	1	339	19,299	118.7
Maryland	22	7	64	-	93	8,141	50.8
Massachusetts	32	7	109	-	148	8,612	71.2
Michigan	330	9	181	-	520	91,583	612.5
New Jersey	57	5	14	-	76	20,557	131.3
New York	30	63	148	-	241	24,058	195.0
Texas	70	8	235	-	313	24,805	165.4
Virginia	31	7	58	-	96	12,604	83.1
Washington	17	-	127	-	144	12,720	78.2
Total	1,743	179	1,868	9	3,799	553,439	3,855.9

#### ChargePoint America Charging Unit Distribution

Project to Date



 $^{1}$  Includes all charging units that were in use by the end of the reporting period

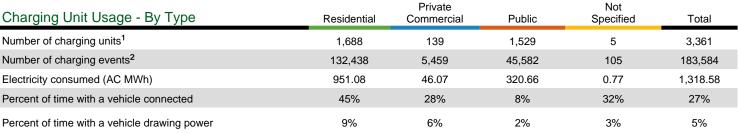
 $^{\rm 2}$  A charging event is defined as the period when a vehicle is connected to a charging unit, during which period some power is transferred

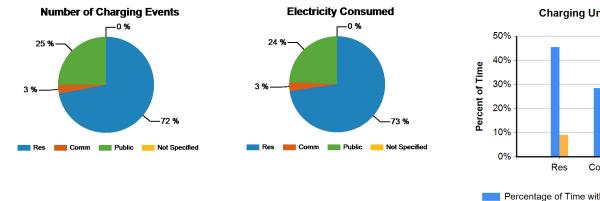




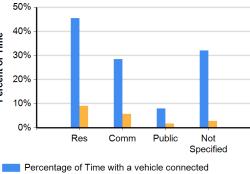
## ChargePoint<sup>®</sup> America Vehicle Charging Infrastructure Summary Report

### Report period: July 2012 - September 2012



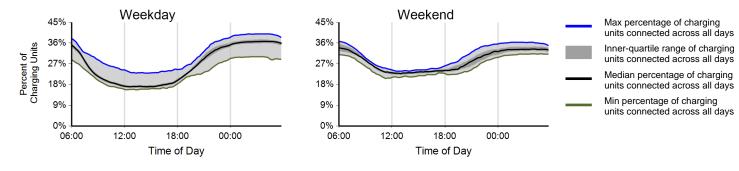


**Charging Unit Utilization** 

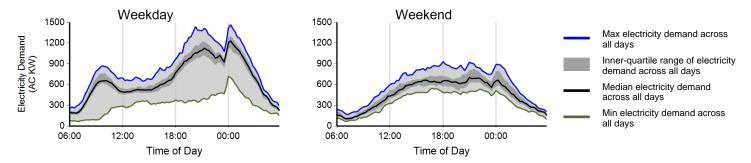


Percentage of Time with a vehicle drawing power

### 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



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

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

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





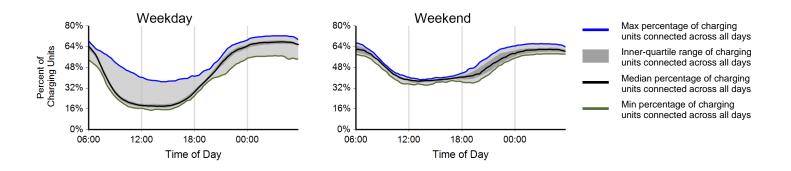
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## Residential Electric Vehicle Supply Equipment (EVSE)

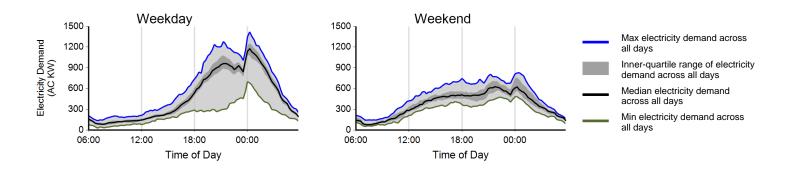
Report period: July 2012 - September 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	95,183	37,255	132,438
Charging energy consumed (AC MWh)	715.7	235.4	951.1
Percent of time with a vehicle connected to EVSE	43.6%	49.7%	45.4%
Percent of time with a vehicle drawing power from EVSE	9.5%	7.6%	9.0%
Average number of charging events started per EVSE per day	0.93	0.88	0.92

### 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



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

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

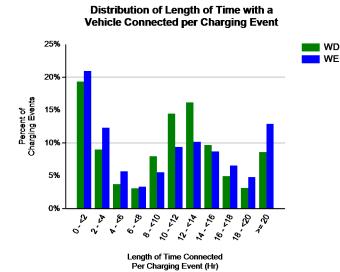




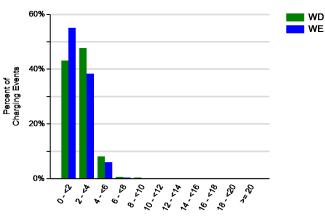
## Residential Electric Vehicle Supply Equipment (EVSE)

## Report period: July 2012 - September 2012

Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	12.1	11.9	12.0
Average length of time with a vehicle drawing power per charging event (hr)	2.5	2.1	2.4
Average energy consumed per charging event (AC KWh)	7.52	6.32	7.18



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% 0% د. جرم م 8. ×10 10, 572 15° 51 14°. 516 ▲ <sup>9</sup>2 '≯ 4 20 2. A 91 7" Electricity Consumed Per Charging Event (KWh)

**Distribution of AC Energy** 

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

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



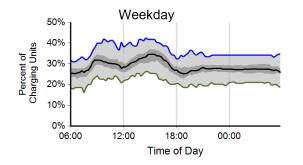


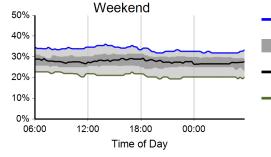
## Commercial Electric Vehicle Supply Equipment (EVSE)

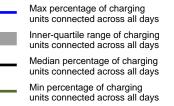
## Report period: July 2012 - September 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	5,087	372	5,459
Charging energy consumed (AC MWh)	43.3	2.8	46.1
Percent of time with a vehicle connected to EVSE	28.8%	27.2%	28.3%
Percent of time with a vehicle drawing power from EVSE	7.3%	1.0%	5.6%
Average number of charging events started per EVSE per day	0.61	0.11	0.46

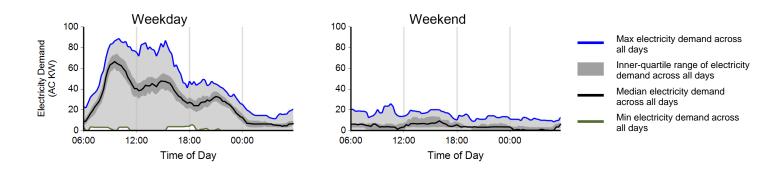
### Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage







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



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

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





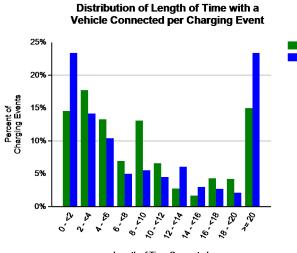
## Commercial Electric Vehicle Supply Equipment (EVSE)

#### Report period: July 2012 - September 2012

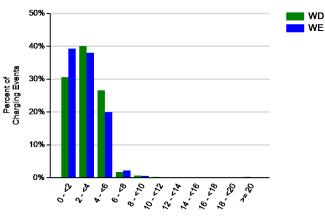
Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	14.8	15.9	14.8
Average length of time with a vehicle drawing power per charging event (hr)	3.0	2.6	3.0
Average energy consumed per charging event (AC KWh)	8.51	7.52	8.44

WD

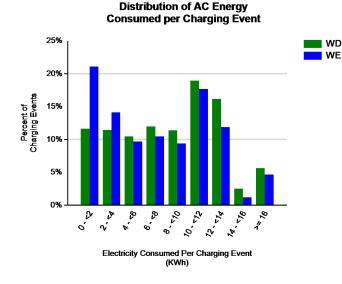
WE



Length of Time Connected 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)



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

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

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





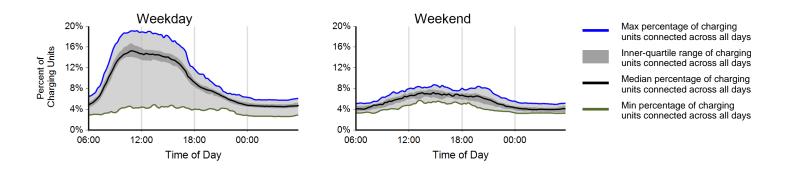
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## Public Electric Vehicle Supply Equipment (EVSE)

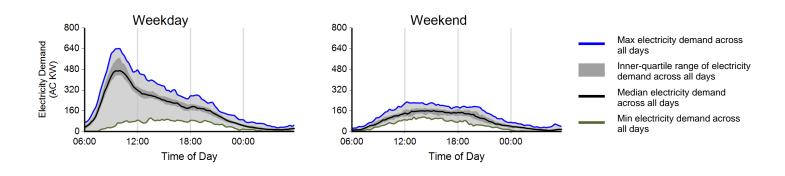
## Report period: July 2012 - September 2012

EVSE Usage	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	36,981	8,601	45,582
Charging energy consumed (AC MWh)	266.7	54.0	320.7
Percent of time with a vehicle connected to EVSE	9.1%	5.4%	8.0%
Percent of time with a vehicle drawing power from EVSE	2.2%	1.7%	1.6%
Average number of charging events started per EVSE per day	0.39	0.22	0.34

### 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



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

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

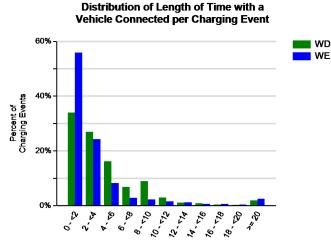




## Public Electric Vehicle Supply Equipment (EVSE)

## Report period: July 2012 - September 2012

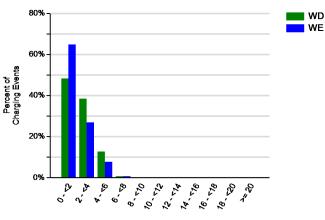
Individual Charging Event Statistics	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	5.9	4.9	5.7
Average length of time with a vehicle drawing power per charging event (hr)	1.0	2.0	1.2
Average energy consumed per charging event (AC KWh)	7.21	6.28	7.04



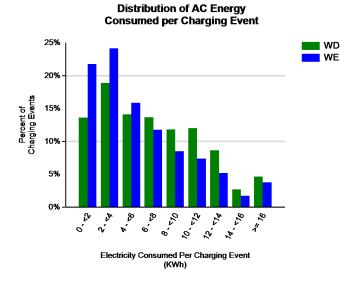
Length of Time Connected

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)



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

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

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





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